

Government Welfare Schemes Established In State GOVT

Submitted in partial fulfillment of the requirements
for the award of
Bachelor of Engineering degree in Computer Science and Engineering

by

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SCHOOL
OF COMPUTING**

**SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Accredited with Grade “A” by NAAC**

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MARCH – 2022



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of **Nandimala Poojitha (RegNo: 38110352)** and **Chede Srilekha (Regno: 38110556)** who carried out the project entitled “**Government Welfare Schemes Established In State Government**” under my supervision from December 2021 to March 2022.

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DECLARATION

I **Nandimala Poojitha (RegNo: 38110352)** and **Chede Srilekha (Regno: 38110556)** hereby declare that the Project Report entitled “**Government Welfare Schemes Established In State Government**” done by us under the guidance of **Dr. B. Ankayarkanni M.E., Ph.D.** is submitted in partial fulfillment of the requirements for the award of Bachelor of Engineering degree in 2017-2021.

DATE:

PLACE:

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to **Board of Management of SATHYABAMA** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

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I would like to express my sincere and a deep sense of gratitude to my Project Guide **Dr. B. Ankayarkanni M.E., Ph.D.**, for her valuable guidance, suggestions and constant encouragement paved way for the successful completion of my project work.

I wish to express my thanks to all Teaching and Non-teaching staff members of the **Department of Computer Science and Engineering** who were helpful in many ways for the completion of the project.

ABSTRACT

Most of the schemes introduced by government go into the dustbin just because the officials who implement the schemes could not make them available to suitable people. So there is a secured and transparent system needed which enable an arbitrary person to directly apply for a scheme and track the status from time to time and know whether he is entitled to receive the fruit or his application is rejected by officials. In our system admin will add the scheme details to the system. And he can able to the view the registered user details. And he can able to accept or reject the scheme which is requested by the client. And user can able to view the status of his scheme request level.

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CHAPTER 1

INTRODUCTION

1.1 OVERVIEW

This report discusses the result of the work done in various types of reports like scheme wise report, and user wise report. Various reports like approved applications, pending applications and rejected applications also user wise. Scheme wise report contains scheme name, scheme type, scheme id, validity date.

1.2 BACKGROUND AND MOTIVATION

Administrator will check for the new updates are available then admin updates all these information on the site and if user is applicable for the particular schemes administrator send the SMS. Administrator will also check eligibility details, how many members are already applied for the schemes all these details will be displayed. Admin takes care of the activities related to the government. This module takes care of accepting various applications from users.

The objective of the system is to develop a system which provides the details of government schemes and beneficiaries. The purpose is to design a system which automates the processes involved and allows users to perform various operations. The purpose is to design a system which automates the processes involved and allows users to perform various operations.

1.3 SCOPE OF THE PROJECT

The scope of Government Schemes Alerts is as follows: The Government Schemes Alerts provides an easier and save the time to register and use the scheme services. The scope of the government scheme alerts is to assure a transparent and secured system. The Government Schemes Alerts helps user to directly apply for a scheme and track the status from time to time. Through this site helps to know whether user is entitled to receive the fruit or his application is rejected by officials. This site is helpful to every individual to check

their current status of their scheme request level.

CHAPTER 2

LITERATURE SURVEY

Literature survey is the most important step in software development process. Before developing the tool it is necessary to determine the time factor, economy and company strength. Once these things are satisfied, then the next step is to determine which operating system and language can be used for developing the tool. Once the programmers start building the tool the programmers need lot of external support. This support can be obtained from senior programmers, from book or from websites. Before building the system the above consideration are taken into account for developing the proposed system. The major part of the project development sector considers and fully survey all the required needs for developing the project. For every project Literature survey is the most important sector in software development process.

Before developing the tools and the associated designing it is necessary to determine and survey the time factor, resource requirement, man power, economy, and company strength. Once these things are satisfied and fully surveyed, then the next step is to determine about the software specifications in the respective system such as what type of operating system the project would require, and what are all the necessary software are needed to proceed with the next step such as developing the tools, and the associated operations.

2.1 REVIEW OF LITERATURE SURVEY:

Title: Research on the E-Government Scheme based on Multi-Technologies and Bidirectional Authentication.

Author: LI Liangzhi

Description:

The authentication is the key part of the network security. It is also the main problem we should resolve. This scheme, which is bi-directorial, using multi-mechanism to ensure safety authentication and providing a uniform authentication service to other e-government application system, meets the need of current E-government system.

Title: A secure Publishing Scheme in E-Government.

Author: Jiang Hong, Dai Jiazhu.

Description:

One of the most important functions of E-government is publication through the Internet. Though digital signature can be exploited to protect the integrity and authenticity of published information, it cannot effectively resist malicious replacement in scenarios where the published information consists of different files. A secure publishing scheme based on Merkel hash tree is proposed. The scheme is able to resist the malicious replacement of published information and its cost is modest.

Title: Study on Massive E-government data cloud storage scheme based on Hadoop

Author: Li Bo

Description:

Traditional relational database cannot meet the requirement of massive e-government data storage. Using the massive data storage of Ji'nan walling management platform as an example, this paper presents an e-government cloud storage scheme based on Hadoop, which improves the efficiency of data access, but also low cost, high safety and high scalability can be satisfactory.

Title: Data Warehouse-Based personalized Information service scheme in E-Government.

Author: Xilin Liu, Dong Li

Description:

In this paper, we study the application of data warehouse in e-government from the point of the view on the personalized information service, and analyze its structure and features combining with the requirement of the e-government information service. Finally, we explain the processes of data warehousing in the e-government with a real example in traveling.

Title: IGOSA- A Novel framework for analysis of and facilitating government schemes

Author: Sabyasachi Mohanty, Amit K. Mishra, Dhruba C. Panda

Description:

Progress in the field of information and Communication Technology (ICT) has benefited the e-governance solutions with higher efficiency and better accountability. In this paper we have identified a domain of government which focuses on welfare schemes for the weaker sections of the society. For the better acceptability of the schemes, information sharing and analysis of the scheme related information is crucial.

CHAPTER 3

RELATED WORK

3.1 The Incentive of Government Chief Officials at Grass-roots Level: An Analysis of the Political Tournament Model in Interagency Information Sharing

The lack of incentive mechanism for government chief officials is the key obstacle to improving interagency government information sharing. This paper considers the political tournament model as suitable to stimulate local governmental “top leaders” at district-level and county-level, and then puts forward some measures for the application of the model.

3.2 RESEARCH ON THE E – GOVERNMENT SCHEME BASED ON MULTI-TECHONOLOGIES AND BI-DIRECTIONAL AUTHENTICATION

The authentication is the key part of the network security. It is also the main problem we should resolve. This scheme, which is bi-directional, using multi-mechanism to ensure

safety authentication and providing a uniform authentication service to other e-government application system, meets the need of current e-government system. But authentication technology and e-government system are continually developing, there are still many problems need to be solved.

3.3 Analysis of E-government Services Outsourcing and Incentive Scheme

Relative theories, operation patterns and trends about e-government out-sourcing are studied. Subsequently, the analyses on the incentive model and system for government and enterprise in the e-government outsourcing project are presented based on the theories of game and principal-agent, emphasizing on motivation and performance evaluation in managing out-sourcing business, in which the importance of incentive game in principal-agent is also derived. The state of incomplete and asymmetric information makes it important for government to implement reward and punishment before enough analyzing. From the aspect of validity analysis, the optimal proposal will have the characteristics of monotone, that is, the awards to the manager which are provided by government should increase with the improvement of output level. It is eventually concluded that the reformation of e-government services outsourcing relationship requires incentive scheme.

3.4 A Risk Assessment Model Based-Business-Circle of E-Government Information System

With the development of computer network and information technology rapidly, they are serving every walk of life in China. Chinese government is using widely the information and network technology for improving its work. So, Chinese E-Government information system is developing feety. However, in fact, E-Government information system has some its characters and some potential hazards in China, which affects E-Government information system's healthy and favorable development. It is insufficient that some secure products and tools are only used for the security system architecture of E-Government information system. To build secure and authentic system architecture of E-Government information system, the risk assessment and management is necessary for secure and reliable E-Government information system. A risk assessment model based-business-

circle of E-Government information system is proposed in the article according to the characters of E-Government information system. In the model, some business circles are given according to the importance and features of E-Government information system. Moreover, the risk assessment is done in every business circle. The model introduces the idea of risk assessment, scheme of risk assessment, process of risk assessment and the computational method of risk.

3.5 A secure publishing scheme in e-Government

One of the most important functions of e-Government is publication through the Internet. Though digital signature can be exploited to protect the integrity and authenticity of published information, it can not effectively resist malicious replacement in scenarios where the published information consists of different files. A secure publishing scheme based on Merkle hash tree is proposed. The scheme is able to resist the malicious replacement of published information and its cost is modest.

3.6 EXISTING SYSTEM

In the present scenario, various government schemes are published in print media and advertised by the respective departments. It is often difficult for people to get the relevant information and approach the officials for availing the services. Due to lack of proper communication among various departments and officials, often the purpose of the schemes is not achieved. People do not get to know about the schemes and do not benefit from them.

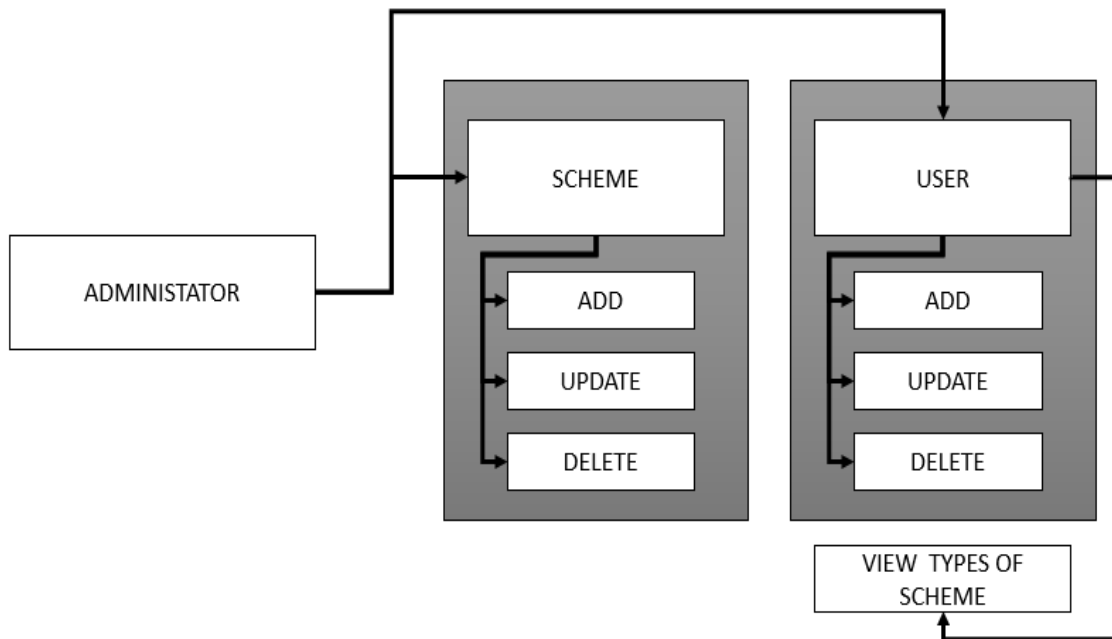
3.7 PROPOSED SYSTEM

The proposed system is a web based application, which maintains a centralized repository of all scheme related information. This makes it easy to search for the desired information. Users and public can access the system to get the information and also apply online for the proposed schemes. The system allows coordination among all concerned departments and officials. The system also allows the regular monitoring and modification of information.

3.8 ADVANTAGES OF PROPOSED SYSTEM

- Provides all the schemes released by the Government.
- Announcing the every new schemes.
- Displaying the notifications on the main pages.
- User registration process.
- Login authentication.
- Allows users to check their status details.

3.9 ARCHITECTURE DIAGRAM



Fig(3.1)

3.10 SYSTEM REQUIREMENTS

3.10.1 HARDWARE REQUIREMENTS:

- System - 40GB
- Monitor - 15VGA color
- RAM - 4GB

3.10.2 SOFTWARE REQUIREMENTS:

- Operating System - Windows 10.
- Coding language - Java
- IDE - Netbeans
- Backend - Mysql

3.11 LANGUAGE OVERVIEW

3.11.1 Introduction to Java

Java is one of the world's most important and widely used computer languages, and it has held this distinction for many years. Unlike some other computer languages whose influence has wearied with passage of time, while Java's has grown.

3.11.2 Application of Java

Java is widely used in every corner of world and of human life. Java is not only used in software but is also widely used in designing hardware controlling software components. There are more than 930 million JRE downloads each year and 3 billion mobile phones run java.

Following are some other usage of Java:

- Developing Desktop Applications
- Web Applications like Linkedin.com, Snapdeal.com etc
- Mobile Operating System like Android
- Embedded Systems
- Robotics and games etc.

3.11.3 Features of Java

The prime reason behind creation of Java was to bring portability and security feature into a computer language. Beside these two major features, there were many other features that played an important role in moulding out the final form of this outstanding language. Those features are;

1) Simple

Java is easy to learn and its syntax is quite simple, clean and easy to understand. The confusing and ambiguous concepts of C++ are either left out in Java or they have been re-implemented in a cleaner way.

2) Object Oriented

In java everything is Object which has some data and behaviour. Java can be easily extended as it is based on Object Model.

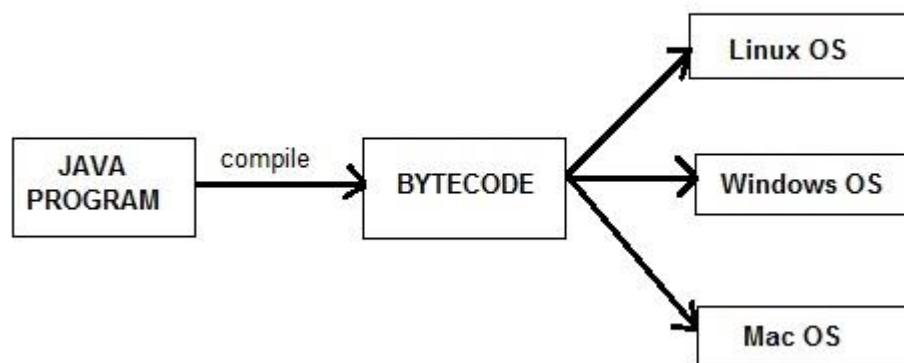
3) Robust

Java makes an effort to eliminate error prone codes by emphasizing mainly on compile time error checking and runtime checking. But the main areas which Java improved were Memory Management and mishandled Exceptions by introducing automatic Garbage Collector and Exception Handling.

4) Platform Independent

Unlike other programming languages such as C, C++ etc. which are compiled into platform specific machines. Java is guaranteed to be write-once, run-anywhere language.

On compilation Java program is compiled into byte code. This byte code is platform independent and can be run on any machine, plus this byte code format also provide security. Any machine with Java Runtime Environment can run Java Programs.



(Fig 3.2) Java Compilation

5) Secure

When it comes to security, Java is always the first choice. With java secure features it enable us to develop virus free, temper free system. Java program always runs in Java runtime environment with almost null interaction with system OS, hence it is more secure.

6) Multi-Threading

Java multithreading feature makes it possible to write program that can do many tasks simultaneously. Benefit of multithreading is that it utilizes same memory and other resources to execute multiple threads at the same time, like While typing, grammatical errors are checked along.

7) Architectural Neutral

Compiler generates byte codes, which have nothing to do with a particular computer architecture, hence a Java program is easy to interpret on any machine.

8) Portable

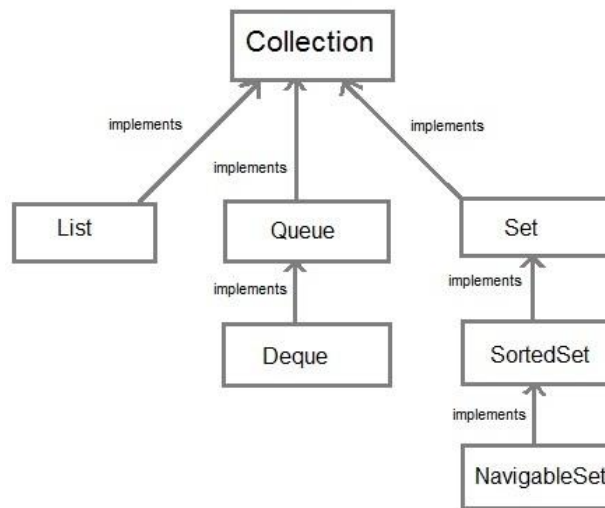
Java Byte code can be carried to any platform. No implementation dependent features. Everything related to storage is predefined, example: size of primitive data types.

9) High Performance

Java is an interpreted language, so it will never be as fast as a compiled language like C or C++. But, Java enables high performance with the use of just-in-time compiler.

3.11.4 Collection Framework

Collection framework was not part of original Java release. Collections was added to J2SE 1.2. Prior to Java 2, Java provided adhoc classes such as Dictionary, Vector, Stack and Properties to store and manipulate groups of objects. Collection framework provides many important classes and interfaces to collect and organize group of alike objects.



Fig(3.3)Collection Framework

3.11.5 MY SQL

MySQL, officially, but also called "My Sequel" is the world's most widely used open-source relational database management system (RDBMS) that runs as a server providing multi-user access to a number of databases, though SQLite probably has more total embedded deployments. The SQL phrase stands for Structured Query Language.

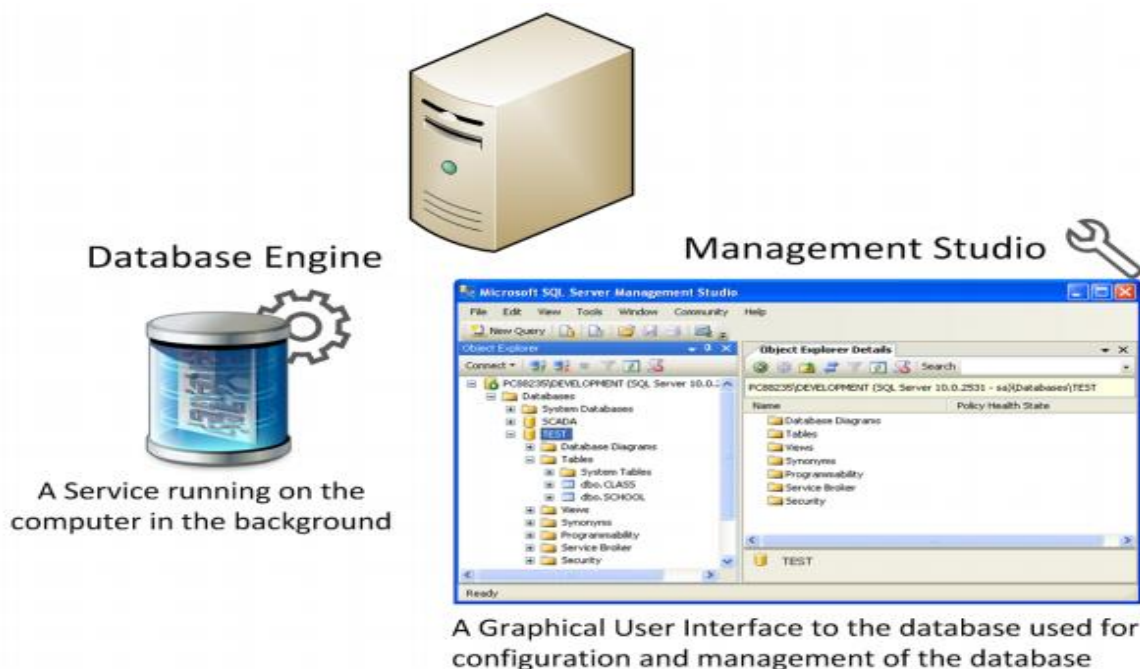
The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. MySQL is a popular choice of database for use in web applications, and is a central component of the widely used LAMP open source web application software stack (and other 'AMP' stacks).

LAMP is an acronym for "Linux, Apache, MySQL and Perl/PHP/Python." Free software-open source projects that require a full-featured database management system often use MySQL.

For commercial use, several paid editions are available, and offer additional functionality. Applications which use MySQL databases include: TYPO3, MODx, Joomla, WordPress, phpBB, MyBB, Drupal and other software. MySQL is also used in many high-profile, large-scale websites, including Wikipedia, Google (though not for searches), Facebook, Twitter, Flickr and YouTube.

T-SQL expands on the SQL standard to include procedural programming, local variables, and various support functions for string processing, date processing, mathematics, etc. SQL Server consists of a Database Engine and a Management Studio (and lots of other stuff which we will not mention here). The Database engine has no graphical interface - it is just a service running in the background of your computer (preferable on the server). The Management Studio is graphical tool for configuring and viewing the information in the database. It can be installed on the server or on the client (or both).

SQL Server Management Studio can also be used to create a new database, alter any existing database schema by adding or modifying tables and indexes, or analyze performance. It includes the query windows which provide a GUI based interface to write and execute queries.



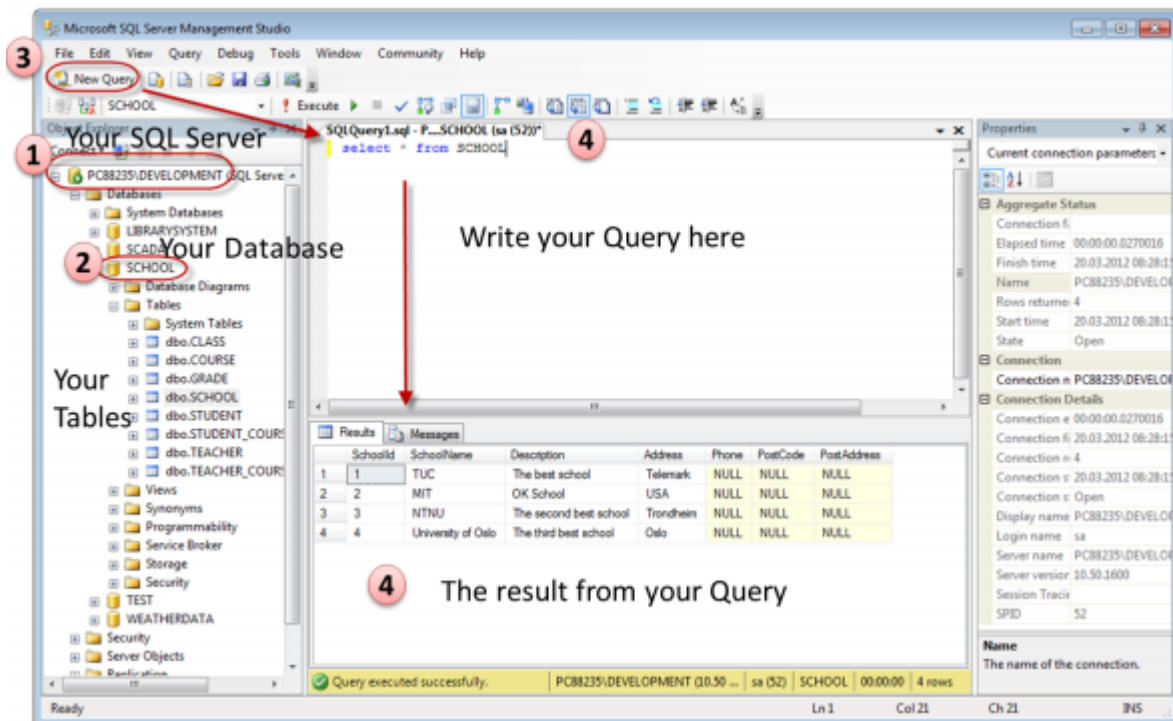
3.11.6 SERVER MANAGEMENT STUDIO

SQL Server Management Studio is a GUI tool included with SQL Server for configuring, managing, and administering all components within Microsoft SQL Server. The tool includes both script editors and graphical tools that work with objects and features of the server. As mentioned earlier, version of SQL Server Management Studio is also available for SQL Server Express Edition, for which it is known as SQL Server Management Studio

Express.

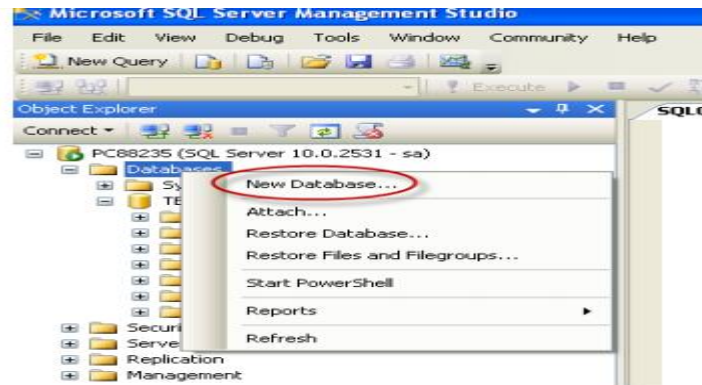
A central feature of SQL Server Management Studio is the Object Explorer, which allows the user to browse, select, and act upon any of the objects within the server. It can be used to visually observe and analyze query plans and optimize the database performance, among others. SQL Server Management Studio can also be used to create a new database, alter any existing database schema by adding or modifying tables and indexes, or analyze performance. It includes the query windows which provide a GUI based interface to write and execute queries.

When creating SQL commands and queries, the “Query Editor” (select “New Query” from the Toolbar) is used (shown in the figure above). With SQL and the “Query Editor” we can do almost everything with code, but sometimes it is also a good idea to use the different Designer tools in SQL to help us do the work without coding (so much).



3.11.7 Create a new Database

It is quite simple to create a new database in Microsoft SQL Server. Just right-click on the “Databases” node and select “New Database...”



The OLAP Services feature available in SQL Server version 7.0 is now called SQL Server 2000 Analysis Services. The term OLAP Services has been replaced with the term Analysis Services. Analysis Services also includes a new data mining component. The Repository component available in SQL Server version 7.0 is now called Microsoft SQL Server 2000 Meta Data Services. References to the component now use the term Meta Data Services. The term repository is used only in reference to the repository engine within Meta Data Services

SQL-SERVER database consist of six type of objects,

They are,

1. TABLE
2. QUERY
3. FORM
4. REPORT
5. MACRO

A database is a collection of data about a specific topic.

Views of Table

We can work with a table in two types,

1. Design View
2. Datasheet View

Design View

To build or modify the structure of a table we work in the table design view. We can specify what kind of data will be hold.

Datasheet View

To add, edit or analyses the data itself we work in tables datasheet view mode.

Query

A query is a question that has to be asked the data. Access gathers data that answers the question from one or more table. The data that make up the answer is either dynaset (if you edit it) or a snapshot (it cannot be edited). Each time we run query, we get latest information in the dynaset. Access either displays the dynaset or snapshot for us to view or perform an action on it, such as deleting or updating.

NETBEANS

Net Beans IDE is the official IDE for Java 8. With its editors, code analyzers, and converters, you can quickly and smoothly upgrade your applications to use new Java 8 language constructs, such as lambdas, functional operations, and method references. Batch analyzers and converters are provided to search through multiple applications at the same time, matching patterns for conversion to new Java 8 language constructs. With its constantly improving Java Editor, many rich features and an extensive range of tools, templates and samples, Net Beans IDE sets the standard for developing with cutting edge technologies out of the box.

Java Networking

The term network programming refers to writing programs that execute across multiple devices (computers), in which the devices are all connected to each other using a network.

The java.net package provides support for the two common network protocols:

- **TCP:** TCP stands for Transmission Control Protocol, which allows for reliable communication between two applications. TCP is typically used over the Internet Protocol, which is referred to as TCP/IP.
- **UDP:** UDP stands for User Datagram Protocol, a connection-less protocol that allows for packets of data to be transmitted between applications.

This tutorial gives good understanding on the following two subjects:

- **Socket Programming:** This is most widely used concept in Networking and it has been explained in very detail.
- **URL Processing:** This would be covered separately. [Click here](#) to learn about URL Processing in Java language.

3.11.8 FEASIBILITY STUDY

The feasibility of the project is analyzed in this phase and business proposal is put forth with a very general plan for the project and some cost estimates. During system analysis the feasibility study of the proposed system is to be carried out. This is to ensure that the proposed system is not a burden to the company. For feasibility analysis, some understanding of the major requirements for the system is essential.

The feasibility study investigates the problem and the information needs of the stakeholders. It seeks to determine the resources required to provide an information systems solution, the cost and benefits of such a solution, and the feasibility of such a solution.

The goal of the feasibility study is to consider alternative information systems solutions, evaluate their feasibility, and propose the alternative most suitable to the organization. The feasibility of a proposed solution is evaluated in terms of its components.

ECONOMICAL FEASIBILITY

This study is carried out to check the economic impact that the system will have on the organization. The amount of fund that the company can pour into the research and development of the system is limited. The expenditures must justified. Thus the developed system as well within the budget and this was achieved because most of the technologies used are freely available. Only the customized products had to be purchased.

TECHNICAL FEASIBILITY

This study is carried out to check the technical feasibility, that is, the technical requirements of the system. Any system developed must not have a high demand on the available technical resources. This will lead to high demands on the available technical resources. This will lead to high demands being placed on the client. The developed system must have a modest requirement, as only minimal or null changes are required for implementing this system.

SOCIAL FEASIBILITY

The aspect of study is to check the level of acceptance of the system by the user. This includes the process of training the user to use the system efficiently. The user must not feel threatened by the system, instead must accept it as a necessity.

REQUIREMENT ANALYSIS

Requirement analysis, also called requirement engineering, is the process of determining user expectations for a new modified product. It encompasses the tasks that determine the need for analysing, documenting, validating and managing software or system requirements. The requirements should be documentable, actionable, measurable, testable and traceable related to identified business needs or opportunities and define to a level of detail, sufficient for system design.

FUNCTIONAL REQUIREMENTS

It is a technical specification requirement for the software products. It is the first step in the requirement analysis process which lists the requirements of particular software systems including functional, performance and security requirements. The function of the system depends mainly on the quality hardware used to run the software with given functionality.

Usability

It specifies how easy the system must be use. It is easy to ask queries in any format which is short or long, porter stemming algorithm stimulates the desired response for user.

Robustness

It refers to a program that performs well not only under ordinary conditions but also under unusual conditions. It is the ability of the user to cope with errors for irrelevant queries during execution.

Security

The state of providing protected access to resource is security. The system provides good security and unauthorized users cannot access the system there by providing high security.

Reliability

It is the probability of how often the software fails. The measurement is often expressed in MTBF (Mean Time Between Failures). The requirement is needed in order to ensure that the processes work correctly and completely without being aborted. It can handle any load and survive and survive and even capable of working around any failure.

Compatibility

It is supported by version above all web browsers. Using any web servers like localhost makes the system real-time experience.

Flexibility

The flexibility of the project is provided in such a way that is has the ability to run on different environments being executed by different users.

Safety

Safety is a measure taken to prevent trouble. Every query is processed in a secured manner without letting others to know one's personal information.

NON- FUNCTIONAL REQUIREMENTS**Portability:**

It is the usability of the same software in different environments. The project can be run in any operating system.

Performance:

These requirements determine the resources required, time interval, throughput and everything that deals with the performance of the system.

Accuracy:

The result of the requesting query is very accurate and high speed of retrieving information. The degree of security provided by the system is high and effective.

Maintainability:

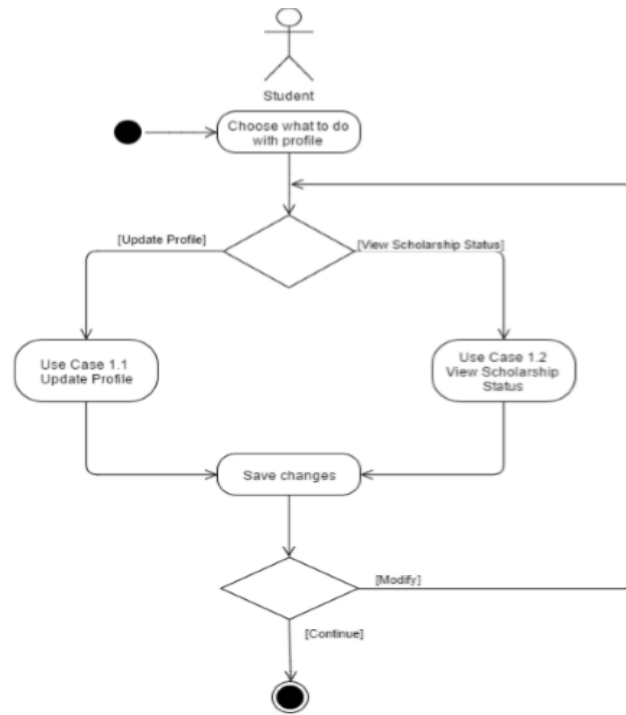
Project is simple as further updates can be easily done without affecting its stability. Maintainability basically defines that how easy it is to maintain the system. It means that how easy it is to maintain the system, analyse, change and test the application. Maintainability of this project is simple as further updates can be easily done without affecting its stability.

UML DIAGRAM

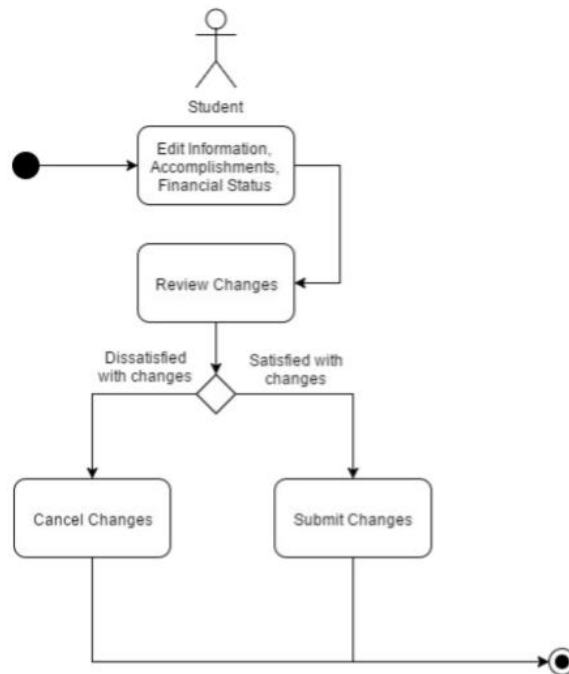
UML is a method for describing the system architecture in detail using the blueprint. UML represents a collection of best engineering practices that have proven successful in the modeling of large and complex systems. UML is a very important part of developing objects oriented software and the software development process. UML uses mostly graphical notations to express the design of software projects. Using the UML helps project teams communicate, explore potential designs, and validate the architectural design of the software.

3.11.9 ACTIVITY DIAGRAM

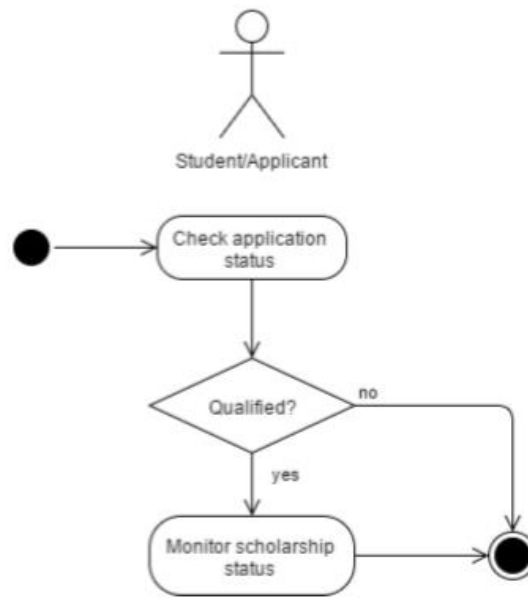
Activity diagrams describe the workflow behavior of a system. Activity diagrams are similar to state diagrams because activities are the state of doing something. The diagrams describe the state of activities by showing the sequence of activities performed. Activity diagrams can show activities that are conditional or parallel.



Fig(3.4)



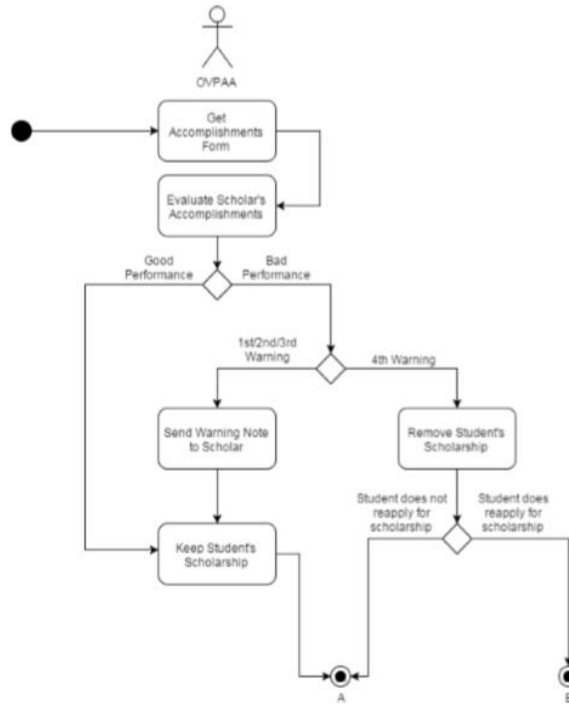
Fig(3.5)



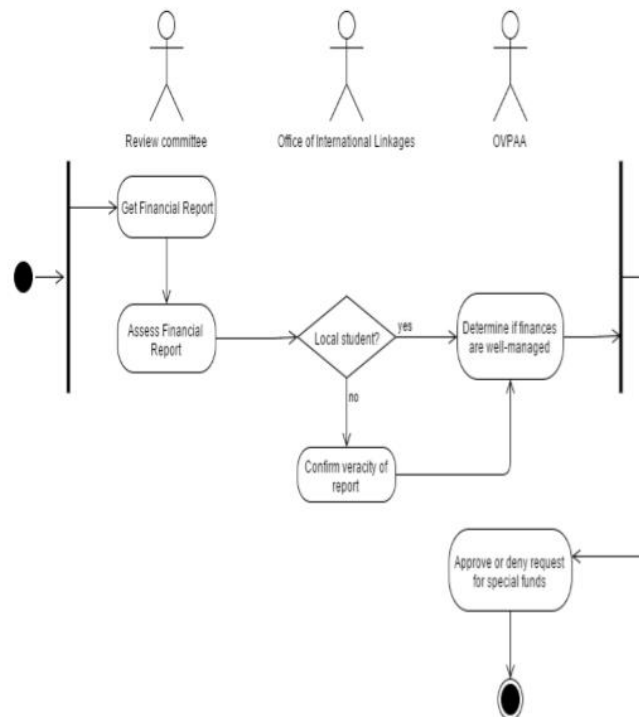
Fig(3.6)



Fig(3.7)



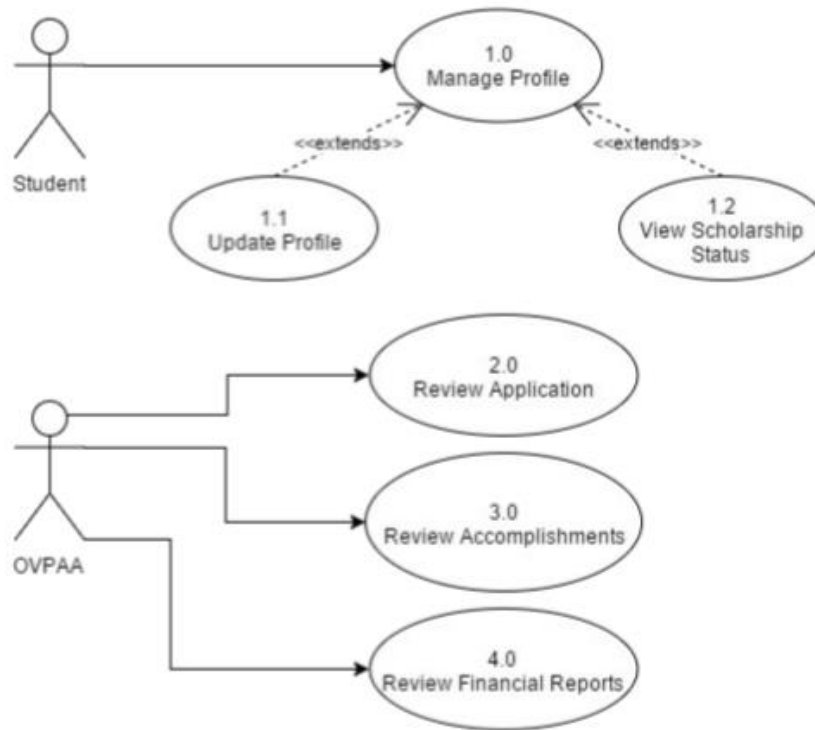
Fig(3.8)



Fig(3.9)

3.11.10 USECASE DIAGRAM

A use case diagram in the Unified Modeling Language (UML) is a type of behavioural diagram defined by and created from a Use-case analysis. Its purpose is to present a graphical overview of the functionality provided by a system in terms of actors, their goals (represented as use cases), and any dependencies between those use cases.



Fig(3.10)

3.11.11 CLASS DIAGRAM

Class diagrams are widely used to describe the types of objects in a system and their relationships. Class diagrams model class structure and contents using design elements such as classes, packages and objects. Class diagrams describe three different perspectives when designing a system, conceptual, specification, and implementation. These perspectives become evident as the diagram is created and help solidify the design. Class diagrams are arguably the most used UML diagram type. It is the main building block of any object oriented solution. It shows the classes in a system, attributes and operations

of each class and the relationship between each class. In most modeling tools a class has three parts, name at the top, attributes in the middle and operations or methods at the bottom. In large systems with many classes related classes are grouped together to create class diagrams. Different relationships between diagrams are show by different types of Arrows. Below is a image of a class diagram. Follow the link for more class diagram examples.



fig(3.11)

SYSTEM DESIGN

INPUT DESIGN

The input design is the link between the information system and the user. It comprises the

developing specification and procedures for data preparation and those steps are necessary to put transaction data in to a usable form for processing can be achieved by inspecting the computer to read data from a written or printed document or it can occur by having people keying the data directly into the system. The design of input focuses on controlling the amount of input required, controlling the errors, avoiding delay, avoiding extra steps and keeping the process simple. The input is designed in such a way so that it provides security and ease of use with retaining the privacy. Input Design considered the following things:

- What data should be given as input?
- How the data should be arranged or coded?
- The dialog to guide the operating personnel in providing input.
- Methods for preparing input validations and steps to follow when error occur.

OUTPUT DESIGN

A quality output is one, which meets the requirements of the end user and presents the information clearly. In any system results of processing are communicated to the users and to other system through outputs. In output design it is determined how the information is to be displaced for immediate need and also the hard copy output. It is the most important and direct source information to the user. Efficient and intelligent output design improves the system's relationship to help user decision-making.

The output form of an information system should accomplish one or more of the following objectives.

- Convey information about past activities, current status or projections of the
- Future.
- Signal important events, opportunities, problems, or warnings.
- Trigger an action.
- Confirm an action

SYSTEM TESTING

TESTING PROCESS

The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components, sub-assemblies, assemblies and/or a finished product it is

the process of exercising software with the intent of ensuring that the Software system meets its requirements and user expectations and does not fail in an unacceptable manner. There are various types of test. Each test type addresses a specific testing requirement.

TYPES OF TESTS

Unit Testing

Unit testing involves the design of test cases that validate that the internal program logic is functioning properly, and that program input produces valid outputs. All decision branches and internal code flow should be validated. It is the testing of individual software units of the application .it is done after the completion of an individual unit before integration. This is a structural testing, that relies on knowledge of its construction and is invasive. Unit tests perform basic tests at component level and test a specific business process, application, and/or system configuration. Unit tests ensure that each unique path of business process performs accurately to the documented specifications and contains clearly defined inputs and expected results.

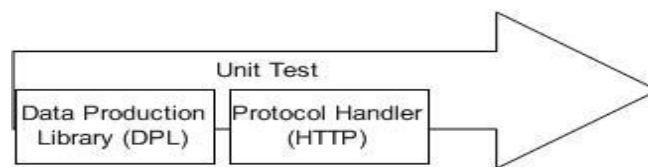


Fig. Unit Testing

Integration Testing

Integration tests are designed to test integrated software components to determine if they actually run as one program. Testing is event driven and is more concerned with the basic outcome of screens or fields. Integration tests demonstrate that although the components were individually satisfaction, as shown by successfully unit testing, the combination of components is correct and consistent. Integration testing is specifically aimed at exposing the problems that arise from the combination of components.

Functional Testing

Functional tests provide systematic demonstrations that functions tested are

available as specified by the business and technical requirements, system documentation and user manuals.

Functional testing is centered on the following items:

Valid Input is used to identified classes of valid input must be accepted.

Invalid Input is used to identified classes of invalid input must be rejected.

Functions is used to identified functions must be exercised.

Output is used to identify classes of application outputs.

Systems/Procedures is used to interfacing systems or procedures must be invoked.

Organization and preparation of functional tests is focused on requirements, key functions, or special test cases. In addition, systematic coverage pertaining to identify Business process flows; data fields, predefined processes, and successive Processes must be considered for testing. Before functional testing is complete, additional tests are identified and the effective value of current tests is determined.

System Testing

System testing ensures that the entire integrated software system meets requirements. It tests a configuration to ensure known and predictable results. An example of system testing is the configuration oriented system integration test. System testing is based on process descriptions and flows, emphasizing pre-driven process links and integration points.

White Box Testing

White Box Testing is a testing in which the software tester has knowledge of the inner workings, structure and language of the software, or at least its purpose. It is used to test areas that cannot be reached from a black box level.

Black Box Testing

Black Box Testing is testing the software without any knowledge of the inner workings, structure or language of the module being tested. Black box tests, as most other kinds of tests, must be written from a definitive source document, such as specification or requirements document, such as specification or requirements document. It is a testing in which the software under test is treated, as a black box .you **cannot “see” into it. The test**

provides inputs and responds to outputs without

Considering how the software works.

TEST STRATEGY AND APPROACH

Field testing will be performed manually and functional tests will be written in detail.

Test Objectives

- ☐ All field entries must work properly.
- ☐ Pages must be activated from the identified link.
- ☐ The entry screen, messages and responses must not be delayed.
- ☐ Features to be tested
- ☐ Verify that the entries are of the correct format
- ☐ No duplicate entries should be allowed
- ☐ All links should take the user to the correct page.

Integration Testing

Software integration testing is the incremental integration testing of two or more integrated software components on a single platform to produce failures caused by interface defects.

The task of the integration test is to check that components or software applications.

Acceptance Testing

User Acceptance Testing is a critical phase of any project and requires significant participation by the end user. It also ensures that the system meets the functional requirements.

ALPHA TESTING

In software development, alpha test will be a test among the teams to confirm that your product works. Originally, the term alpha test meant the first phase of testing in a software development process. The first phase includes unit testing, component testing, and

system testing. It also enables us to test the product on the lowest common denominator machines to make sure download times are acceptable and pre loaders work.

BETA TESTING

In software development, a beta test is the second phase of software testing in which a sampling of the intended audience tries the product out. Beta testing can be considered "pre-release testing." Beta test versions of software are now distributed to curriculum specialists and teachers to give the program a "real world" test.

CHAPTER 4

IMPLEMENTATION

4.1 CODE

```
/target/
.idea/
.settings
.project
.classpath

*.iml
.DS_Store

# The following files are generated/updated by vaadin-maven-plugin
node_modules/

# Browser drivers for local integration tests
drivers/
# Error screenshots generated by TestBench for failed integration
tests
error-screenshots/
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        "glob": "^7.0.0",
        "lodash": "^4.17.19",
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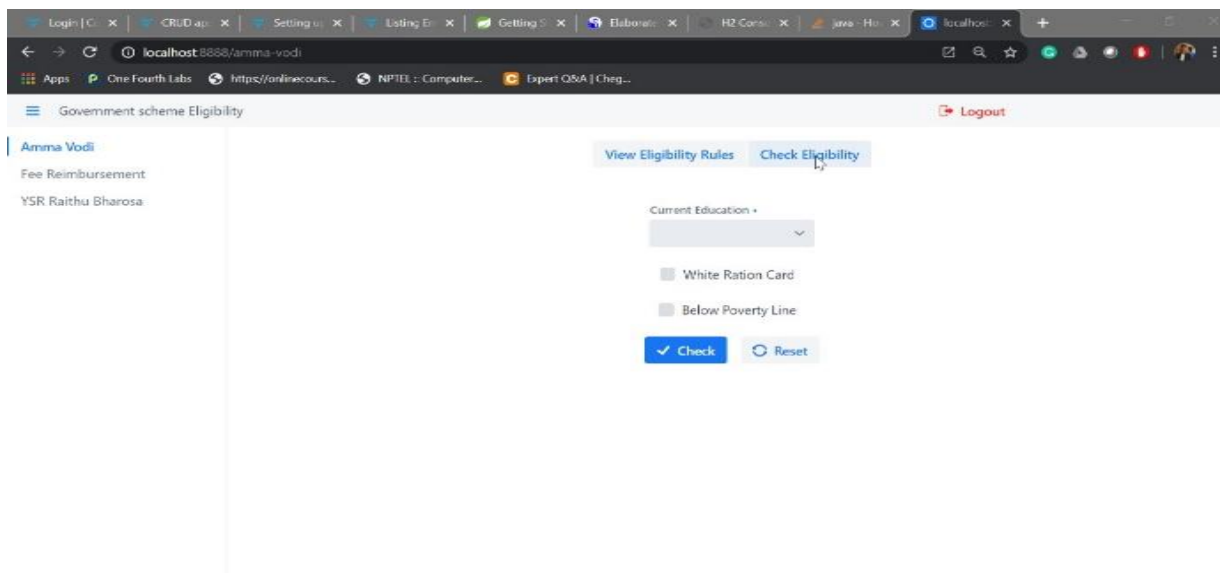
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CHAPTER - 5

CONCLUSION

The articulate the viability and efficacy of an RFID based system as a cell phone anti-lost and anti-theft measure. The system comprises of a smart phone equipped with a low-power RFID Reader that interrogates a body-worn passive tag to determine a private space which resides within 10 feet of the tagged owner. Besides, the cell phone can also function like a low-cost mobile RFID terminal. Moreover, the appealing results of current design show that our system can be referenced for academic learning and further experimentations on RFID-based communications.

5.1 RESULT SCREENSHORTS



The screenshot displays a web browser window with multiple tabs open. The active tab shows a web application titled 'Amma Vodi' at the URL 'localhost:8888/amma-vodi'. The page header includes a 'Logout' button. The main content area is titled 'Government scheme Eligibility' and contains a form with the following elements:

- A sidebar on the left with the text 'Amma Vodi', 'Fee Reimbursement', and 'YSR Raithu Bharosa'.
- Two buttons at the top right: 'View Eligibility Rules' and 'Check Eligibility'.
- A dropdown menu labeled 'Current Education'.
- Two checkboxes: 'White Ration Card' and 'Below Poverty Line'.
- Two buttons at the bottom: 'Check' (with a checkmark icon) and 'Reset' (with a circular arrow icon).

Fig(11.1)

The screenshot shows a web browser window with the URL `localhost:8888/fee-reimbursement`. The page title is "Government scheme Eligibility" and there is a "Logout" button in the top right corner. On the left, a sidebar menu shows "Amma Vodi" and "Fee Reimbursement" (which is selected). Below the sidebar, the text "YSR Raithu Bharosa" is visible. The main content area contains the following form elements:

- Buttons: "View Eligibility Rules" and "Check Eligibility" at the top.
- Form fields:
 - "Rank" with a text input field.
 - "Caste" with a dropdown menu.
 - "Parental Income" with a text input field.
- Checkboxes:
 - ☐ Parent Government Employee
 - ☐ Physically Challenged
- Action buttons: "Check" (with a checkmark icon) and "Reset" (with a circular arrow icon) at the bottom.

Fig(11.2)

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- [4]. Patel moss:Java Database Programming with JDBC
- [5]. J2EE Professional by Shadab siddiqui
- [6]. Nick Todd: JAVA server pages
- [7]. Larne Pekowsley: JAVA server

Prediction of Government Schemes using React Java

APPENDICES:

A.JOURNAL PAPER

Script

B.Ankayarkanni, Chede Srilekha, Poojitha Nandimala



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*UG Student, Department of Computer Science and Engineering, Sathyabama Institute of Science and Technology, Chennai, India. srilekhaselvie@gmail.com,
poojithanandimala@gmail.com*

ABSTRACT:

The gist of the industry is that just like the captain of the trash to go to him in the throne to be presented for the effect of a decision to be conveyed to the people, does not do the things that suit him to l'mind. It is necessary to allow the acquired or arbitrary transparent system to directly apply for the status and from time to time follow up and take the fruit to find out whether there is right by its own application was rejected. Member, and our system is Add Account system details. It might be able to view the user's details. And he couldn't admit or reject the client's claim that is mentioned in the advice. Being able to indicate its reason can see, the level of user demand.

INTRODUCTION

The reason for this program is to give itemized data about the public authority and to foster a framework that rebuffs recipients. Plan a framework that starts tasks and permits clients to play out an assortment of activities. Plan a framework that starts tasks and permits clients to play out an assortment of activities.

SCOPE OF THE PROJECT

Text Alerts, the suggestions and the practice thereof are as follows: And the government advice, except for email and text alerts, makes the account easier to use and allows the function to be registered. . The government followed these alerts to ensure a transparent system. The government plans to apply directly for a user alert, and helps the state track it from time to time. Tomorrow or the site for the user is entitled to receive, or whatever in the application is rejected by officials. Curabitur the dignity of everyone's current level of verification promoted by the prayers of his own council.

LITERATURE SURVEY

Studying the literature is the most important step in the software development process. Before any explanation is necessary to determine the time of the iron element, the economy and the power of the county court. With all of these things, the next step is to figure out which operating system language will be a development tool. Most of everything is a necessary condition to fully study the position on the project. The standard area of the survey project is particularly important in the software development process. Before developing the tools, they need to determine design time and component resource requirements, a utility company saves money. When all of this is they have it fully in mind, and the next step is to establish the truth about the software specifications in both systems, for example, what type of operating system the project has not, even that they are all necessary software are the work of the other as a stage in the development of technology and things associated.

The Incentive of Government Chief Officials at Grass-roots Level: An Analysis of the Political Tournament Model in Interagency Information Sharing

Lack of senior government officials creates a mechanism that is a major obstacle to better control of information sharing between agencies. This article takes into account the political life of the tournament and to stimulate greater "senior leadership" from appropriate local governments at the district and company level, the model points to an application board.

Research on the E-Government Scheme Based on Multi-Technologies and Bi-Directional Authentication

The main problem is that they have to be displayed. This procedure, which is a two-way and multi-use authentication mechanism to ensure the safety and secure way different from others out of service, the authentication uniform application control system meets the need for an electronic management system. However, authentication control technology and electronic system are constantly evolving.

Analysis of E-government Services Outsourcing and Incentive Scheme

According to the theories, business models and government trends outside the mainstream studied. Then, in the explanations of the relaunch and the prototype system in the e-business and the government control project, the outsourcing presented is based on the theories or principal school-agent reveals the motivation and the trial of the outsourcing of corporate performance management, in which an important incentive for - ludi the chief agent is also derived. Sitting on asymmetric information is incomplete and does it have a large enough government presence to implement the division of rewards and punishments.

From the value of the analysis, the proposal will improve the characteristics of monotonicity, it is important that the government must reward are provided by a better increase in the level of production.

A Risk Assessment Model Based-Business-Circle of E-Government Information System

Development of computer network computer technology, and life quickly and, in its service, however, is the ratio of all in China. Chinese government network and information technology widely used to improve the work. So China is an e-government news impression framework. Nonetheless, this e-government relationship is an investigation of the nature and impacts of possibly harming Chinese data and its effect on auxiliary turn of events. At the very least no unique gear is utilized to ensure the results of the e-government chronicles of the security framework. The idea of the security framework and the foundation of a genuine e-government framework require the survey and the board of safety for public wellbeing data. As indicated by the local data framework government, the effect of the business is being considered as far as the attributes of the electronic framework. For instance, certain gatherings of organizations are given key elements of the e-government framework. Be that as it may, the way to progress is ward hazard. To explain the easiest of measures, terrorizing includes a course of surveying the impacts and exercises of distinguishing the kinds of central issues.

A secure publishing scheme in e-Government

One of the main elements of e-government is to distribute electronically. Notwithstanding, computerized marks don't and can't secure the honesty of tasks, including accomplishments and the reality of data, and, then again, can't endure the damage brought about by messages by showing communicated data. The objective is to discover

what Merkle Relay Wood is doing. The set of experiences instructor will actually want to adapt to the homicide and the data distributed to his detriment.

EXISTING SYSTEM

Presently salad control procedures are distributed in different media and by different offices. Data about pioneers and offices is difficult to come by all over the place. Programs frequently happen because of an absence of correspondence between the different specialists and the specialists. Men don't have a clue about some of them and can't get by.

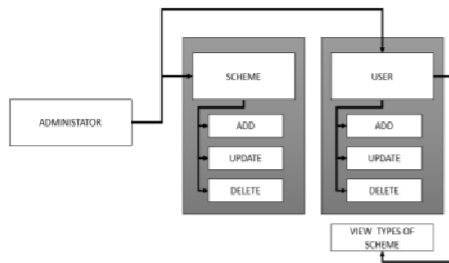
PROPOSED SYSTEM

Hence, a mysterious record is related with data from the public chronicles of all resources as per the mentioned archive. It's not difficult to track down the data you need. Clients can sign in to the framework for general data and recover the product gave on the web. This framework approves overseers and deals with every single important office. The framework is a method for getting the main degree of typical data.

ADVANTAGES OF PROPOSED SYSTEM

- Provides all government plans.
- Show all the diagrams.
- Display of the main page ticker.
- User registration process.
- Login authentication.
- Allows users to check the status of their individual.

ARCHITECTURE DIAGRAM



SYSTEM REQUIREMENTS

HARDWARE REQUIREMENTS:

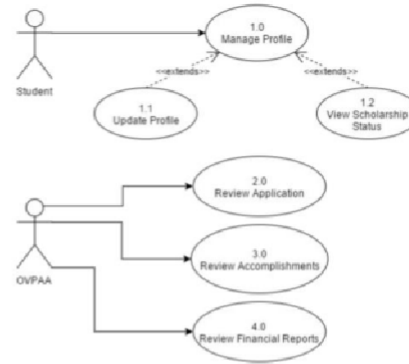
- System - Windows 7/10
- Speed - 2.4GHZ
- HDD - 40GB
- Screen - 15VGA color
- RAM - 4GB

SOFTWARE REQUIREMENTS

- Operating System - Windows 10.
- Coding language - Java
- IDE - Netbeans
- Backend - Mysql

USECASE DIAGRAM

A table used for Arabic language books (UML) should be defined on the table created and how it is used, analysis of the reason. The design is to give members an outline of the framework, its motivation (which is reflected in the learning system), and the urban communities to use thusly.



SYSTEM DESIGN

INPUT DESIGN

Enter the data entry system using the map. It includes a development form and procedures for preparing the data and responding to the steps that are necessary to put the transaction data into a format usable for processing may result from inspecting the computer to read the information from. A written or printed writing or not can be done by having people enter the data into the online system. The board is focused on checking the amount requested has been done; and he refrained was engaged, to comply with the statutes, although far from the flight delay, and the degrees of a simple process. The approach is designed in such a way that it can provide security and keep the use secret and easily. This considered design approach is:

- Has the data been given to address this?
- How can the information be coded in an organized way?
- Operating personnel by providing information to guide the dialogue.
- Prepare for the system to follow the steps and error approach for healing.

OUTPUT DESIGN

From the result, obviously it meets the end client's necessities and the informational collection. Speak

with different clients through any handling cycle or framework. The outcomes show how data should assume a part in distributing. It is a significant wellspring of direct client data. An effective and astute framework is perhaps the most ideal way to plan and settle on choices with the assistance of clients.

The most extreme number of mushrooms permits them to reach.

- Information on past actions Communicate, current status and projections
- Future.
- The latest major events, opportunities, issues or warnings.
- Trigger an action.
- Need to strengthen

CONCLUSION

The RFID system is based on viability and articulates the effectiveness of the anti-lost cell phone as an anti-theft measure. The reason for the basis of a small downe set, furnished with a passive smart phone RFID reader; now request the power of the body 10 to set a tag is present in the local archive for the private feet of the master. In addition, as a low-cost cell phone to work with RFID mobile terminal. In addition, the attractive design shows that the results of our current system can be referenced in academic teaching and other experiments with RFID communications.

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