

PROFESSIONAL TRAINING REPORT

At

**Sathyabama Institute of Science and
Technology (Deemed to be University)**

**Submitted in partial fulfillment of the requirements for the award
of Bachelor of Technology Degree in**

Information Technology

By

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(Reg. No.37120017)**



**DEPARTMENT OF INFORMATION TECHNOLOGY
SCHOOL OF COMPUTING**

**SATHYABAMA
INSTITUTE OF SCIENCE AND
TECHNOLOGY (DEEMED TO BE
UNIVERSITY)**

**Accredited with Grade "A" by NAAC
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AUGUST 2020



**SATHYABAMA INSTITUTE OF SCIENCE AND
TECHNOLOGY**

(Established under Section 3 of UGC Act, 1956)
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SCHOOL OF COMPUTING

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of CHRISTINA STEFFI. F (37120017) who carried out the project entitled “SCHOOL MANAGEMENT SYSTEM USING PYTHON”.under our supervision from Jun 2020 to Aug 2020.

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DECLARATION

I Christina Steffi.F hereby declare that the Project Report entitled “ SCHOOL MANAGEMENT SYSTEM USING PYTHON “ done by me under the guidance of Dr. V. Maria Anu , M.E., Ph.D., at Sathyabama Institute Science And Technology is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology degree in Information Technology.

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SIGNATURE OF THE CANDIDATE

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TRAINING REPORT





Certificate of Internship

**To,
Christina Steffi
Bangalore**

This is to certify that **Christina Steffi** interned with **Zolostays Property Solutions Pvt. Ltd.**,
under the guidance of **Saket Kumar, Sales Manager**.

Here are the details of the internship:

Name of the Department	Sales
Last Designation Held	Sales Intern
Date of Joining	1-Jul-2020
Date of Leaving	31-Aug-2020

In case of any queries, please feel free to reach out to hr@zolostays.com.

Yours faithfully,
For **Zolostays Property Solutions Pvt. Ltd.**



Akhil Sikri
Director
Date: 31-Aug-2020
Place: Bangalore

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ABSTRACT

This web based school management application. I tried to use different software for this application. In my Application I used waterfall model because waterfall model is a sequential design process and in which process is seen as flowing steadily downwards. I also used use case and test case approaches for this application. Using use case I am trying to defining the interactions between a user and a system to achieve a goal. Finally I used test case approaches for determining this application features are working as it is originally established for to do it. Using this software approaches I have completed this application.

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LIST OF ABBREVIATIONS

ABBREVIATIONS

MEANING

API

APPLICATION PROGRAM INTERFACE

JVM

JAVA VIRTUAL MACHINE

SCHOOL MANAGEMENT SYSTEM USING PYTHON

ABSTRACT

This web based school management application. I tried to use different software for this application. In my Application I used waterfall model because waterfall model is a sequential design process and in which process is seen as flowing steadily downwards. I also used use case and test case approaches for this application. Using use case I am trying to defining the interactions between a user and a system to achieve a goal. Finally I used test case approaches for determining this application features are working as it is originally established for to do it. Using this software approaches I have completed this application.

CHAPTER-1
INTRODUCTION

1.1. Domain overview

A school management system is a large database system which can be used for managing school's daily work. It is configurable and can be configured to meet most individual school's needs. It is a multi-user system. Generally Speaking, it is platform available for running on a Local Area Network (LAN). It is used for handling all teachers and students details, also has information about student and teacher details, personal details and other details. Here all the work is computerized.

1.2. Problem Definition

School management application helps to overcome boring paper work in school. This Application is very easy to use. It can work accurately and very smoothly in different scenario. It reduces effort work load and increase efficiency in work. In aspects of time value it is worthy. In this Application teacher can manage student's grade sheet, update their marks, managing online leave application, students and teacher's registration. Administrative Staff can add or remove teacher and student from database via this application. They also can register themselves.

1.3. Software Development Method

In many software applications program different methods and cases are followed such as, Waterfall model, Iterative model, Spiral model, V-model and Big Bang model. I used waterfall model in this application. I tried to use test case and case software approach

1.4. Layout of document

This documentation starts with formal introduction. After introduction analysis and design of the project are described. In analysis and design of the project have many parts such as project proposal, mission, goal, target audience, environment. After that design and table diagram will be found. Use cases and test cases are in chapter 2 and chapter 3 respectively. Finally this documentation finished with result and Conclusion part.

CHAPTER-2
SYSTEM ANALYSIS

2.1.PROJECT PROPOSAL

Project proposal is the term of documents. A project can describe by project proposal. It is the set of all plan of a project. Like, how the software works, what are the steps to complete the entire projects and what are the software requirements and analysis for this project. In my project, I am doing all the steps and also risk and reward and other project dependencies in the project proposal.

2.2.Mission

Online web based application is very popular and well known to everyone. Now a day's everybody wants to get it and work with it. School management application runs every school in everywhere. It was originally built for teachers, students, staffs and administrations. When a teacher works in manually then he/she faces some problems. Sometimes they lose their data or random their data. After observing these issues I have come with an idea that I will make a web based application for school management. But when he/she use this type of application then he/she works fluently and frequently. In this application teacher can check student's grade sheet, update their marks and online leave application and students and teachers registration. So that they can work properly and easily without any error and also this application do not take too much time from them.

Online web based application is easy application provides school teachers and students to use this application for several purposes. First of all every teachers and students need to register in this application and then go through their work.

2.3. Existing system

The goal of my project is to develop a web based application for school management. Using this application teacher can check students grade sheet, update their marks, leave application, check student's upgrades, student's and teacher's registration. When any teacher knows that he/she is not good in their studies then the teacher can connect his/her parent and tell them about their children's studies. Teachers and students of the school benefited from this web application.

2.4.Scope

I want to build a web based application for school teachers, principal, students, admin which will be very easy to use for their work purpose. Work with common server or browser which is very familiar with

They cannot change the customizations of fonts and colors of the web application. Security will be simple but if it is need to be build a high security then it will be built later. I want to focus on the application itself and the features of that application that help build a good management community.

Table: In Scope and Out Scope

In Scope	Out of Scope
Build a web based application for school management.	Build a web based application for division based school management.
Working with most popular browser i.e. Mozilla Firefox., Google Chrome.	Working with uncommon browser.
Security will be simple.	Security will be much more special.
Work on other features.	Work on online teacher and student attendance.

2.5.Target Audience and benefits

Target Audience

This product is basically on school management system. Administrative staff, teacher & student of a school can use this application via web protocol. Student can check register themselves, check their result and update their profile. They also can view their class routine and related resources from this Web application. Teacher can register themselves on this site; they can update & publish students result. They can update their profile .Teacher can apply for their leave by using online leave application. Administrative Staff can add or remove teacher and student from database via this application. They also can register themselves. 2,000 users can use this. It is completely free of cost. All school can use this application.

Benefits to Customer

It reduces effort to maintain data in effective manner. Teacher can easily see the status and progress of the students. Student can see gets information when they need by simply accessing the site. Data management system is much easier in this way as because there is no way to loss/theft of data.

Environment

This system is a web server that will run on a machine with 24 * 7 monitoring. User can use this system anywhere. This system can run on any machine. They do not need any high configuration machine. They need Pentium processor, 256 MB RAM, 16 bit operating system, Internet Explorer, And Google Chrome.

Stakeholders

Administrative staff, teacher & student of a school can use this application via web protocol. Without this person no one can access this application. They can easily find their web pages.

Performance and Capacity Needs

- ★ 2,000 users can use the application.
- ★ It is completely free of costly web application.
- ★ Use common processor.
- ★ Use available Operating System.

User Stories

One of school teacher told that, she often forgot her class schedule. She also told That their students and teachers database maintain manually and it is not good for Theirschool and told that if it is paperless then it will be helpful for their school.

Admin staff can maintain their school database properly. She also said that Paperless management can save their time. But one of them said that paperless Management do not need for their school. She said that manually it is work very Well and no data is loss for the database. Another teacher said that paperless School management can be effective for their school.

Use Cases by Functional Area

★ Student attendance

UC-00 Login the site (as a new user)	
Summary	Direct actors need to log in this page.
Priority	Essential
Use Frequency	Once a time
Direct Actors	Principal, Teacher and guardian.
Main success scenario	1. Visit the login page. 2. If you are new then sign up. 3. Enter essential information: name, e-mail, password (twice), DOB, sex, Mobile no. 4. Submit form.
Alternative success scenario	If any abnormal situation comes then the direct actors can access this site from anywhere.

UC-01 Entry the attendance	
Summary	Only teacher can entry student attendance.
Priority	Essential
Use Frequency	Once a time
Direct actors	Teacher
Main success scenario	1. Go to the login page. 2. Login by yourself. 3. Entry student attendance. 4. Check the attendance. 5. Update the attendance.
Alternative	1. If any student cannot give his/her attendance that time,

UC-00(a) Login the site (as a old user)	
Summary	Direct actors need to log in this page.
Priority	Essential
Use Frequency	Once a time
Direct Actors	Principal, Teacher and guardian.
Main success scenario	1. Visit the login page. 2. If you are old user then you just login this site with your e-mail id and password. 3.
Alternative success scenario	If any abnormal situation comes then the direct actors can access this site from anywhere.

scenario	teacher can re-entry that student attendance. 2. If teacher cannot come school then he/she can give his/her student attendance tomorrow.
----------	---

UC-02 View attendance report	
Summary	View the attendance report of student.
Priority	Essential
Use Frequency	Often
Direct actors	Principal, teacher and guardian
Main success scenario	1. Go through the login page. 2. Open the view attendance report. 3. View the attendance report. 4. Download the report.
Alternative scenario	N/A

Database Table Design

Database design is most important for any project. We are using the Following table to store the information related to teacher to student.

1. Teacher

Field Name	Null	Type
Name	Not Null	VARCHAR(30)
Registration number	Not Null	NUMBER(20)
E-mail ID	Not Null	VARCHAR(30)
Password	Not Null	VARCHAR(30)
Rewrite Password	Not Null	VARCHAR(30)
Address	Not Null	VARCHAR(30)
Contact No	Not Null	VARCHAR(30)
Date of Birth	Not Null	DATE
Date of Joining	Not Null	NUMBER(20)

2.STUDENT

Field Name	Null	Type
Name	Not Null	VARCHAR(30)
Class	Not Null	NUMBER(5)
Roll No	Not Null	NUMBER(5)
Date of Birth	Not Null	DATE
Birth Certificate Number	Not Null	NUMBER(30)
E-mail ID	Not Null	VARCHAR(30)
Password	Not Null	VARCHAR(30)
Rewrite Password	Not Null	VARCHAR(30)
Student ID	Not Null	NUMBER(10)
Father's Name	Not Null	VARCHAR(30)
Occupation	Not Null	VARCHAR(30)
Contact No	Not Null	VARCHAR(30)
Mother's Name	Not Null	VARCHAR(30)

Occupation	Not Null	VARCHAR(30)
Contact No	Not Null	VARCHAR(30)

Result

Field Name	Null	Type
Roll No	Not Null	NUMBER(5)
Subject Name	Not Null	VARCHAR(15)
Score	Not Null	NUMBER(3)
Total Score	Not Null	NUMBER(3)
Result	Not Null	NUMBER(3)

Student Attendance

Field Name	Null	Type
Date	Not Null	NUMBER(10)
Roll No	Not Null	NUMBER(10)
Name	Not Null	VARCHAR(30)
Day	Not Null	VARCHAR(10)

Class routine

Field Name	Null	Type
Day	Not Null	VARCHAR(10)
Class Time	Not Null	NUMBER(7)

Occupation	Not Null	VARCHAR(30)
Contact No	Not Null	VARCHAR(30)

Occupation	Not Null	VARCHAR(30)
Contact No	Not Null	VARCHAR(30)
Occupation	Not Null	VARCHAR(30)
Contact No	Not Null	VARCHAR(30)

CHAPTER 3

PROJECTDESIGN

3.1.System Design

A test case is a documentation which specifies input values, expected output and the preconditions for executing the test.

Test Case acts as the starting point for the test execution, and after applying a set of input values; the application has a definitive outcome and leaves the system at some end point or also known as execution post condition.

3.2.Develop Test Cases

Before starting to test, develop and document *test cases*, which describe the tests to be performed and, if possible, the expected results. The number and complexity of test cases that you need depends in part on how extensively you need to test an application.

Student attendance	
Purpose	Login the site as a new user.
Prerequisite	Assume to be “Login” as teacher.
Test Data	Login id={Valid login id, invalid login id, valid e-mail, invalid e-mail, empty} Password={valid, invalid, empty}
Steps	1. See the use of term page. 2. Click agree radio button at page bottom. 3. Click submit button. 4. See personal page. 5. Verify that welcome message is correct username.

Format of test steps

Each step can be written very tersely using the following keywords:

Login[as Teacher]: Login as a teacher.

Visit [Login the site as a new user]: Visit the page when you are a new user.

Enter[Email id, password as value]: Enter your mail id and password as value. Value can be literal value.

Enter [name, e-mail, password (twice), DOB, sex Mobile no]: These entire field are important and a new user have to fulfill these field.

Click[Button name]: Press a named button.

Verify [Condition]: If it is a user, it will automatically redirect to the profile page. If it is not a user, it will show a message invalid username and password.

Verify [Content]: Email id-1) tasbihaantora@gmail.com- Valid.

2) atiajannatul@yahoo.com- Valid

3) b.g@kl.in - Invalid

4) X@yz.com- Invalid

Password- 1) cindrella7- Valid

2) Cinderella=7- Invalid

3) antora- character.

4) Empty.

Perform[as a new user]: If you are a new user then go through the login page. Create your account and give name, email id, give password(twice), DOB, sex, and mobile no. Click sign up. Next see the term page, click agree radio button at page bottom. Click submit button. See personal page and verify that welcome message is correct

username. If an old user wants to register him/herself again then a message shows "you are already registered". You have to give valid email id and password. If these are not right then a message shows "please give your valid email id and password".

Purpose	Login the site as a new user.
Prerequisite	Assume to be "Login" as principal.
Test Data	Login id={Valid login id, invalid login id, valid e-mail, invalid e-mail, empty} Password={valid, invalid, empty}
Steps	1. See the use of term page. 2. Click agree radio button at page bottom. 3. Click submit button. 4. See personal page. 5. Verify that welcome message is correct username.

Format of test steps

Each step can be written very tersely using the following keywords:

Login[as Guardian]: Login as a guardian.

Visit [Login the site as a new user]: Visit the page when you are a new user.

Enter[Email id, password as value]: Enter your mail id and password as value. Value can be literal value.

Enter [name, e-mail, password (twice), DOB, sex Mobile no]: These entire field are important and a new user have to fulfill these field.

Click[Button name]: Press a named button.

Verify [Condition]: If it is a user, it will automatically redirect to the profile page. If it is not a user, it will show a message invalid username and password.

Architecture of the System

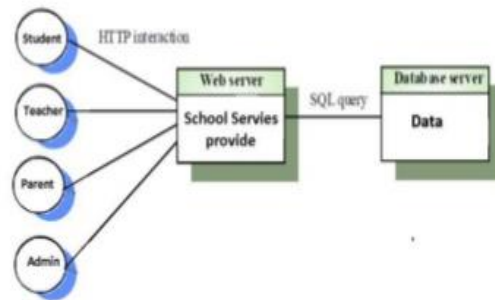


Fig ,: 1.1.system architecture

3.3.USE CASE DIAGRAM

Use case diagrams overview the usage requirement for system. they are useful for presentations to management and/or project stakeholders, but for actual development you will find that use cases provide significantly more value because they describe “the meant” of the actual requirements.



Fig 3.3 Use case diagram

3.4.SEQUENCE DIAGRAM

Sequence diagram model the flow of logic within your system in a visual manner, enabling you both to document and validate your logic, and commonly used for both analysis and design purpose.

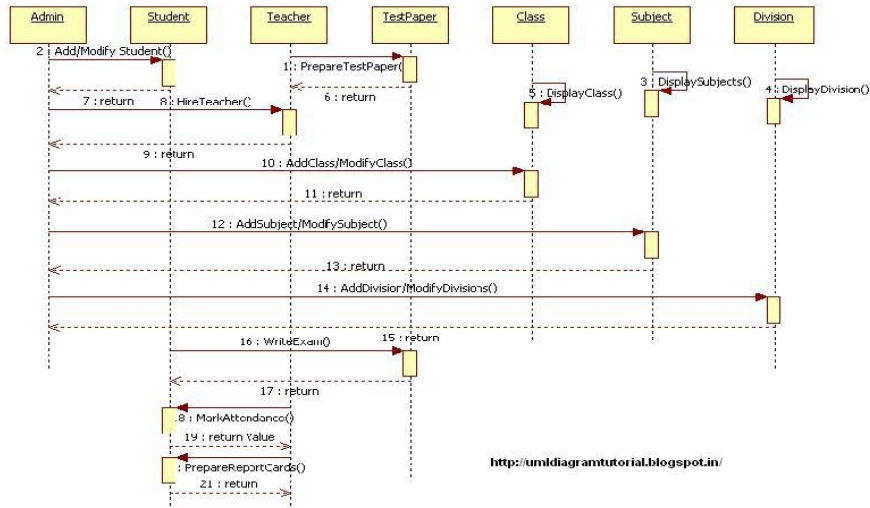


Fig:3.4.Sequence diagram

3.5.ACTIVITY DIAGRAM

Activity diagram are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. The activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system.

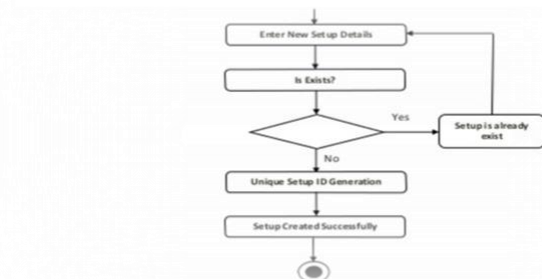


Fig:3.5.activity diagram

3.6.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. Three key considerations involved in the feasibility analysis are

- **ECONOMICAL FEASIBILITY**
- **TECHNICAL FEASIBILITY**
- **OPERATIONAL FEASIBILITY**

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 be 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.

OPERATIONAL 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.

CHAPTER 4

SYSTEM SPECIFICATIONS

LANGUAGE SPECIFICATION

This chapter describes the requirement analysis in accordance with the input and the resources and it also describes the implementation of the project with the technology used.

4.1 Hardware Environment

The hardware requirements may serve as the basis for a contract for the implementation of the system and should therefore be a complete and consistent specification of the whole system. They are used by software engineers as the starting point for the system design. It shows what the systems do and not how it should be implemented.

- Hard disk : 120 GB
- Monitor : 15' color with vgi card support
- Ram : Minimum 256 MB
- Processor : Pentium iv and above (or) equivalent
- Processor speed : Minimum 500 MHZ

4.2 Software Environment

The software requirements are the specification of the system. It should include both a definition and a specification of requirements. It is a set of what the system should do rather than how it should do it. The software requirements provide a basis for creating the software requirements specification. It is useful in estimating cost, planning team activities, performing tasks and tracking the team's and tracking the team's progress throughout the development activity.

- Operating system : Windows XP
- Languages : python
- Data Base : Mysql
- IDE:IDLE

4.3. Software Specification

Functional Requirement

In this application teacher and students will register themselves. In this Application, student will check their result and update their profile. Student will View their class

routine. Teacher will publish and update students result. They will Update their profile.

Teacher will send their leave application by this application.

Administrative staff will add, remove and update teacher and student database via This application.

Non-Functional Requirements

This application will run on common browsers.They will not change the Customizations of fonts and colors of the web application. This application will run On 24 * 7 monitoring. Teachers and students will access this application Through their username and password. Administrative staff will have to Access their functions no one cannot access administrative functions.

Database servers that contain Restricted Data are required to meet the Following account access, password and privilege configurations. Create separate accounts for running automated tasks (backups, replication, etc.) that do not allow direct logins. Administrators must not use these accounts for other tasks. Use strong passwords for all accounts.

Environmental Requirements

Hardware requirements for this application needs a Pentium processor with 256 MB RAM and with 16 bit operating system. This application will run on common browsers.

CHAPTER-5
TESTING

5.1. SYSTEM TESTING

5.1.1. Software Testing

Software testing is the process of evaluation a software item to detect differences between given input and expected output. Also to assess the feature of A software item. Testing assesses the quality of the product. Software testing is a process that should be done during the development process. In other words software testing is a verification and validation process.

5.1.2. Verification

Verification is the process to make sure the product satisfies the conditions imposed at the start of the development phase. In other words, to make sure the product behaves the way we want it to.

5.1.3. Validation

Validation is the process to make sure the product satisfies the specified requirements at the end of the development phase. In other words, to make sure the product is built as per customer requirements.

5.1.4. Basics of software testing

There are two basics of software testing: blackbox testing and whitebox testing.

5.1.4.1.Blackbox Testing

Black box testing is a testing technique that ignores the internal mechanism of the system and focuses on the output generated against any input and execution of the system. It is also called functional testing.

5.1.4.2. Whitebox Testing

White box testing is a testing technique that takes into account the internal mechanism of a system. It is also called structural testing and glass box testing.

Black box testing is often used for validation and white box testing is often used for verification.

5.2. Types of testing

There are many types of testing like

- Unit Testing
- Integration Testing
- Functional Testing
- System Testing

Stress Testing
Performance Testing
Usability Testing
Acceptance Testing
Regression Testing
Beta Testing

Unit Testing

Unit testing is the testing of an individual unit or group of related units. It falls under the class of white box testing. It is often done by the programmer to test that the unit he/she has implemented is producing expected output against given input.

Integration Testing

Integration testing is testing in which a group of components are combined to produce output. Also, the interaction between software and hardware is tested in integration testing if software and hardware components have any relation. It may fall under both white box testing and black box testing.

Functional Testing

Functional testing is the testing to ensure that the specified functionality required in the system requirements works. It falls under the class of black box testing.

System Testing

System testing is the testing to ensure that by putting the software in different environments (e.g., Operating Systems) it still works. System testing is done with full system implementation and environment. It falls under the class of black box testing.

Stress Testing

Stress testing is the testing to evaluate how system behaves under unfavorable conditions. Testing is conducted at beyond limits of the specifications. It falls under the class of black box testing.

Performance Testing

Performance testing is the testing to assess the speed and effectiveness of the system and to make sure it is generating results within a specified time as in performance requirements. It falls under the class of black box testing.

Usability Testing

Usability testing is performed to the perspective of the client, to evaluate how the GUI is user-friendly? How easily can the client learn? After learning how to use, how proficiently can the

client perform? How pleasing is it to use its design? This falls under the class of black box testing.

Acceptance Testing

Acceptance testing is often done by the customer to ensure that the delivered product meets the requirements and works as the customer expected. It falls under the class of black box testing.

Regression Testing

Regression testing is the testing after modification of a system, component, or a group of related units to ensure that the modification is working correctly and is not damaging or imposing other modules to produce unexpected results. It falls under the class of black box testing.

CHAPTER 6
CONCLUSION

6.1.CONCLUSION

The project work titled “School Management System” has been designed using python where in many user friendly form controls have been added in order to make it a user interactive application. The system is developed in such a way that the user with common knowledge of computers can handle it easily. The System developed has proved to be user friendly and efficient in achieving basic goals. The system takes care of all the constrains which have specified. The system is found to be really beneficial for the concerned aspects. Application developed is realistic and secure.

The main idea was to develop an easy to use front end .All the possible user requests are accomplished buttons. Up to date reports can be generated on user requests. All the validations have been done.

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8. SCREENSHOTS

