

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

AKASSH.P (Reg. No.37120005)



DEPARTMENT OF INFORMATION TECHNOLOGY

SCHOOL OF COMPUTING

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY UNIVERSITY

JEPPIAAR NAGAR, RAJIV GANDHI SALAI,

CHENNAI – 600119. TAMILNADU.

JUNE 2020



SATHYABAMA UNIVERSITY

(Established under Section 3 of UGC Act, 1956)

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600119



SCHOOL OF COMPUTING

BONAFIDE CERTIFICATE

This is to certify that this Professional Training Report is the bonafide work of AKASSH.P (Reg. No. 37120005) who underwent the professional training in “Student Project Desk” under our supervision from May 2020 to June 2020.

Internal Guide

Dr. SENDURU SRINIVASULU ,M.TECH, Ph.D.,

Head of the Department

Dr. R.SUBHASHINI, M.E., Ph.D.,

Submitted for Viva voce Examination held on_____

Internal Examiner

External Examiner

DECLARATION

I, AKASSH.P (Reg. No.37120005) hereby declare that the Professional Training Report on “Student Project Desk” done by me under the guidance of Dr Senduru Srinivasulu.,M.TECH,Ph.D., at Sathyabama Institute of Science and Technology is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology degree in Information And Technology

DATE:

PLACE:

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to **Board of Management of SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY** for their kind encouragement in doing this project and for completing it successfully.

I am grateful to them. I convey my thanks to **Dr. T.Sasikala M.E., Ph.D, Dean,** School of Computing , **Dr.SUBHASHINI M.E., Ph.D. ,** Head of the Department of Information and Technology for providing me necessary support and details at the right time during the progressive reviews.

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

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ABSTRACT

STUDENT PROJECT DESK

Collaborative teaching is a teaching practice that includes groups of students working together to solve a problem, complete a task or create a product. In today's world many of the students have done many projects. Some of the students feel some hesitation to communicate with some of students. Students with more technical knowledge can share with them using this project. The teachers and staffs can train the students in such way by collaborating with them using this project. The student can propose the idea through this project. Suppose the student starts the project he/she can add the team members and collaborate with them. This project mainly helpful for the paper presentation works, projects, reports etc. He/she can check or cross verify the paper presentation of the previous year. The student can send some feedback so, that it may be helpful for the teachers. The teachers can form discussion with the students. Our project is integrated with some features using the languages like Html, Css, Javascript and Mysql database .The Features include registration page, login page, home page,IEE page,collaboration page and feedback page. So we came up through the idea of communicating the interested students and the respective teacher. This project will be useful for the upcoming batches of students. It also facilitate us explore all the activities happening in the college, Different reports and Queries can be generated based on vast options related to students, batch, course, certification . In education, collaboration is the most successful promotion of teaching programs for the majority of students

LIST OF ABBREVIATION:

HTML: Hyper Text mark up language

CSS: Cascading Style sheet

JQUERY: java query

PHP: Hyper text Preprocessor

JS:Java script

Div: division of Section

Id:identifiers

Padding:Specifies the space

Margin:species the margin

Meta:specifies pointer address

Database: stores the details

Table:species the user to view records

\$-represents the type of data(variable)

Chapter-1

INTRODUCTION

1.1 GENERAL

Web development is the work involved in developing a web site for the Internet or an intranet. In my professional training program, Student project desk(SPD) is created using web development tools. This includes both front-end and back-end development. Initially the user's details can be fetched from a sign-in screen. We use a MYSQL database to store the user's details. Then the user will be able to access the desk. The user can clearly understand from the welcome page.

1.2 OUTLINE OF THE PROJECT

The project is about creating a Student project desk for students that consists of trending fields, projects, IEEE, Feedback pages. The students can choose between projects so, that they could collaborate with an interested person. The response is recorded in the MYSQL database and later we will check the profile whether he/she is eligible or not. Based on the analysis the profile forwarded to the respective person. Then they work together in projects.

Chapter-2

AIM AND SCOPE OF THE PRESENT INVESTIGATION

2.1 AIM

The main objective of this project is to create a Student project desk for potential students to prepare for upcoming projects in software and hardware firms.

2.2 LITERATURE REVIEW

This Project is created using the front-end programming languages HTML5, CSS3 , and JavaScript (J-Query). Back-end is developed using PHP, MySQL , and Xampp server. The Framework used here is Bootstrap.

HTML:

What is HTML?

HTML is the standard markup language for creating

Web pages.

- HTML stands for Hyper Text Markup Language
- HTML describes the structure of Web pages using markup.
- HTML elements are the building blocks of HTML pages
- HTML elements are represented by tags
- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on
- Browsers do not display the HTML tags, but use them to render the content of the page

Modifying the Page Title and Meta Tags

- [How to Change Page Name or URL](#)– The University of Colorado Denver outlines the steps that are needed to modify a page title or URL.
- [Modifying Breadcrumbs, Page Title, and Meta Tags \(PDF\)](#)– In this document, breadcrumbs, page titles, and Meta tags are explained, and steps to modifying them properly are discussed.
- [Guidelines for Meta Tag Usage](#)– Here, Meta tags are discussed in great detail, including how to create and modify them to include updated information.
- [Title Tags & Meta Tags](#)– This page offers basic information about title and Meta tags and how to create and modify them.
- [Web Editing Basics \(PDF\)](#)– This document consists of multiple tips for editing several aspects of websites, from modifying tables to updating Meta and title tags.

CSS3 Features

CSS3 is the latest version of CSS and contains a number of exciting, new features that make it easier for web developers to create great styling for websites.

BACKGROUND-IMAGE

The CSS3 background-image property is used to set a background image for an HTML element.

For example, consider the following CSS:

```
body {  
    background-image: url("http://image-gallery.io/mountain-scene.png");  
}
```

BACKGROUND-SIZE

The CSS background-size property controls the size of an HTML element's background image. Used along with the background-image property, background-size values control how a background image is proportioned and scaled. One such value is *cover* as seen in the following CSS:

```
body {  
    background-image: url("http://image-gallery.io/mountain-scene.png");  
    background-size: cover;  
}
```

Here, the image covers the entire HTML body element

What is JavaScript ?

JavaScript is a dynamic computer programming language. It is lightweight and most commonly used as a part of web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

JavaScript was first known as **Live Script**, but Netscape changed its name to JavaScript, possibly because of the excitement being generated by Java. JavaScript made its first appearance in Netscape 2.0 in 1995 with the name **Live Script**. The general-purpose core of the language has been embedded in Netscape, Internet Explorer, and other web browsers.

The ECMA-262 Specification defined a standard version of the core JavaScript language.

JavaScript is a lightweight, interpreted programming language.

- Designed for creating network-centric applications.
- Complementary to and integrated with Java.
- Complementary to and integrated with HTML.
- Open and cross-platform

Client-Side JavaScript

PHP:

PHP started out as a small open source project that evolved as more and more people found out how useful it was. Ramus Leadoff unleashed the first version of PHP way back in 1994.

PHP is a recursive acronym for "PHP: Hypertext Preprocessor".

PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.

It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.

PHP is pleasingly zippy in its execution, especially when compiled as an Apache module on the Unix side. The MySQL server, once started, executes even very complex queries with huge result sets in record-setting time.

PHP supports a large number of major protocols such as POP3, IMAP, and LDAP. PHP4 added support for Java and distributed object architectures (COM and CORBA), making n-tier development a possibility for the first time.

PHP is forgiving: PHP language tries to be as forgiving as possible.

PHP Syntax is C-Like.

Common uses of PHP:

PHP performs system functions, i.e. from files on a system it can create, open, read, write, and close them.

PHP can handle forms, i.e. gather data from files, save data to a file, through email you can send data, return data to the user.

You add, delete, modify elements within your database through PHP.

Access cookies variables and set cookies.

Using PHP, you can restrict users to access some pages of your website.

MYSQL:

What is a Database?

A database is a separate application that stores a collection of data. Each database has one or more distinct APIs for creating, accessing, managing, searching and replicating the data it holds.

Other kinds of data stores can also be used, such as files on the file system or large hash tables in memory but data fetching and writing would not be so fast and easy with those type of systems.

Nowadays, we use relational database management systems (RDBMS) to store and manage huge volume of data. This is called relational database because all the data is stored into different tables and relations are established using primary keys or other keys known as **Foreign Keys**.

A Relational DataBase Management System (RDBMS) is a software that –

Enables you to implement a database with tables, columns and indexes.

Guarantees the Referential Integrity between rows of various tables.

Updates the indexes automatically.

Interprets an SQL query and combines information from various tables

XAMPP:

XAMPP is a [free and open-source cross-platform web server solution stack](#) package developed by Apache Friends, consisting mainly of the [Apache HTTP Server](#), [MariaDB database](#), and [interpreters](#) for scripts written in the [PHP](#) and [Perl programming languages](#). Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

XAMPP is a ease of deployment means a [WAMP](#) or [LAMP](#) stack can be installed quickly and simply on an operating system by a developer. With the advantage a number of common add-in applications such as [WordPress](#) and [Joomla!](#) can also be installed with similar ease using the programming in software development.

2.3 PROBLEM STATEMENT

The project is about creating a Student project desk for students that consists of trending fields, projects, IEEE, Feedback pages. The students can choose between projects so, that they could collaborate with an interested person. This project mainly helpful for the paper presentation works, projects, reports etc. He/she can check or cross verify the paper presentation of the previous year. The student can send some feedback so, that it may be helpful for the teachers. The teachers can form discussion with the students.

2.4 Objective

The term “SPD” originally meant as “Student project desk”. It has been developed with the aid of Web-based technology. We utilize the term in its more recent, broader meaning also utilizing student project desk for the creating an initial contact with students in advance of a traditional projects and paper based presentation.

Several benefits:

- Reduce the number of illiterate students with low prospects and knowledge.
- Collaborate the student only if he/she are interested in the projects or paper presentations.
- Increase the number of good knowledge students.
- Sharpen the university's educational profile
- Gather statistics about the profile of students, this may lead to introduction of new projects and presentation
- Students with more technical knowledge can share with them using this project

Chapter-3

ALGORITHMS AND METHODS USED

3.1 OVERVIEW:

The SPD is created for understanding the following stages

Login

Home page

Login forms as in a normal login window there are multiple logins available

So, that more than one person can access the desk with their individual login.

But in this project there is only one login id i.e. administrator id and

password by which a person enter the site. Hence it is more secure and

reliable than previously used login page.

Home page:

Home page is the most creative and important page in this project. It

Consist of module namely:

Trending fields:-

From the given choices the student can select the

fields (like Data Analytics, Internet of Things, Machine Learning, Embedded systems and Cyber security).

Projects:

Projects Section Follows condition if the student has interest on his/her project they will be collaborated. Only if student maintains a eligible profile. Or else they will not be collaborated .

Eligibility is minimum of 2 projects.

TECHNOLOGIES USED

Front end as:

HTML ,CSS

Back end as:

Js,php

3.2 LIBRARIES AND FRAMEWORKS USED

JQUERY

jQuery is a JavaScript library designed to simplify HTML DOM tree traversal and manipulation, as well as event handling, CSS animation, and Ajax. It is free, open-source software using the permissive MIT License. As of May 2019, jQuery is used by 73% of the 10 million most popular websites.

BOOTSTRAP

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and JavaScript-based design templates for typography, forms, buttons, navigation and other interface components.

3.3 WORKING MODULE

LOGIN PAGE

The login page serves as the index or the starting page of the application. It is designed using HTML and CSS. The login event handling is scripted using Javascript. A form-signin is created using html with form-signin input which is of the type email and password. We use a set of default email address and

passwords pre-configured using Javascript. If the values in the input fields matches with the pre-configured ones, the user will gain the access to the application.

HOME PAGE

The home page opens if the login process executes properly. The home page is designed using HTML and CSS.

The home page consists of a navigation bar with a dropdown feature. The dropdown navigation bar consists of a dropdown list listed as Projects,IEEE,Feedback,About. Pressing any button will direct the user to the respective page. The Projects consists of 8 student profile cards. Each profile cards contains about of his/her profile and collaborate options are available with the right of the person . The student can choose their interested profile and then fill the respective collaborative profile. Submitting the collaborative profile will record the response and save to the respective database. The student will be receiving the response shortly.

WELCOME PAGE

- Goals and Measures

HOME PAGE CONTENTS

- Trending Fields
- Exclusive Projects

PROJECTS SECTION

- Internet of things
- Civil
- Machine Learning
- Database Management Systems
- Virtual Reality
- Programming projects
- Embedded Systems
- Mobile Applications

IEEE SECTION

- Air Pollution Monitoring System
- Civil Constructions
- Radio Frequency light sources
- Health Monitoring System
- Credit card Fraud detection
- Automatic Driver Drowsiness Detection
- Wireless Networks

COLLABORATION SECTION

- Collaboration profile

- [Response recordation](#)

FEEDBACK SECTION

- [Feedback page](#)
- [Response recordation](#)

ABOUT SECTION

- [About Page](#)
- [Contact us](#)

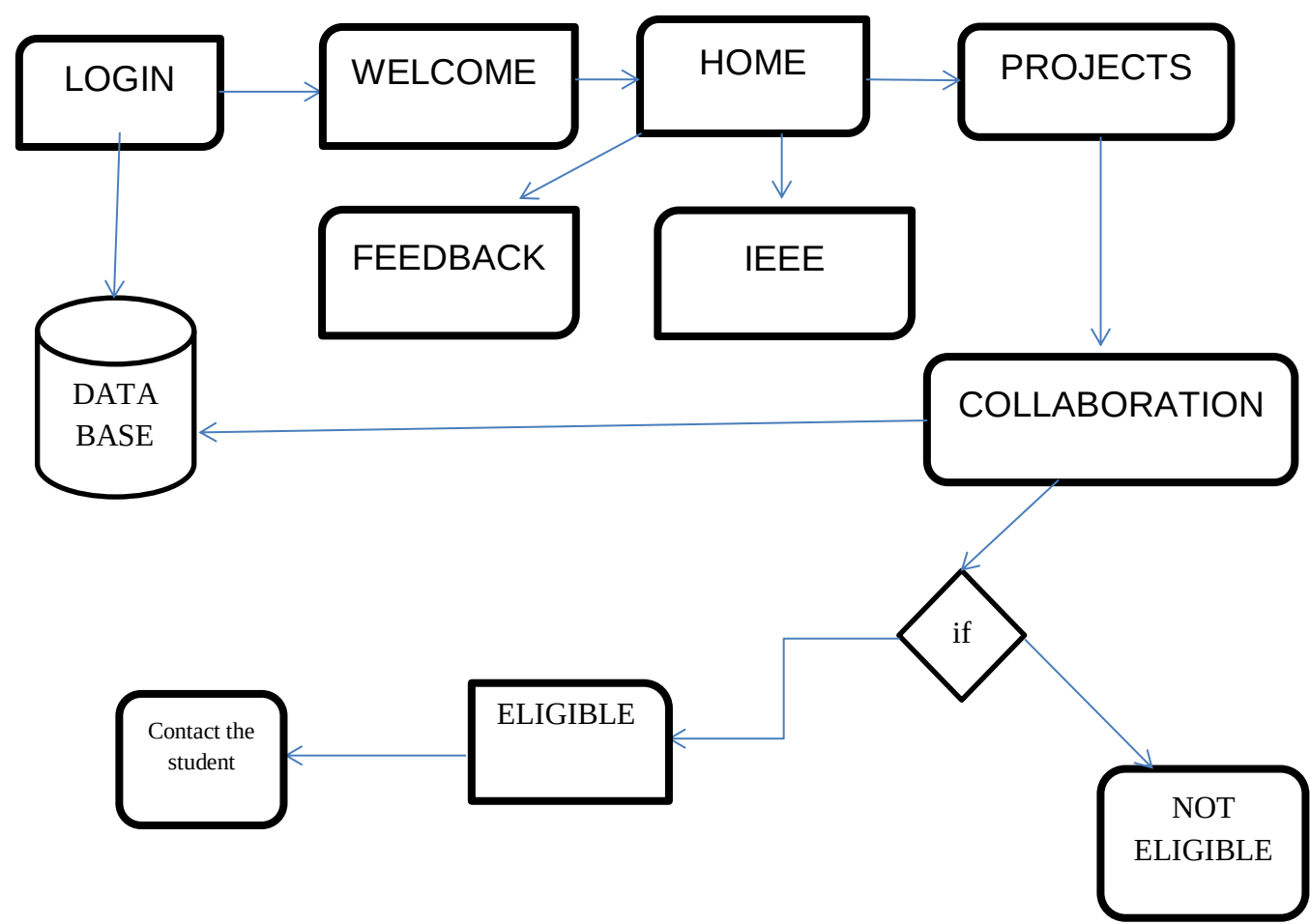
TRENDING FIELDS

- [SUMMARY](#)

EXCLUSIVE PROJECTS

- [Deep Learning](#)
- [Python Projects](#)

3.4 SYSTEM ARCHITECTURE



Chapter-4

4. PERFORMANCE ANALYSIS

4.1 Technology Used:

Front - end

HTML,CSS

Back-end

Php,advance java(script)

Implementation is the stage of the project where the theoretical design is turned into a working system. At this stage the main work load, the greatest upheaval and the major impact on the existing system shifts to the user department.

The new system may be totally new, replacing an existing manual or automated system or it may be a major modification to an existing system. Proper implementation is essential to provide a reliable system to meet the organization requirements.

System Minimum Requirements Specification

- Operating system : Windows XP or 2000
- Platform : visual studio
- Tools used : Bootstrap and Collection API

Hardware Minimum Requirements

- Processor : Pentium IV Processor
- Motherboard : Genuine Intel
- RAM : 4 GB
- Hard Disk : 10 GB
- Monitor : LED MONITOR
- Keyboard : 104 Keys
- Mouse : Serial Mouse
- Disk Space : 2 GB

4.2 FEASIBILITY STUDY

1.) ECONOMIC ANALYSIS

Economic analysis is most frequently used for evaluation of the effectiveness of the system. More commonly known as cost/benefit analysis the procedure is to determine the benefit and saving that are expected from a system and compare them with costs, decisions are made to design and implement the system. This part of feasibility study gives the top management the economic justification for the new system. This is an important input to the management, because very often the top management does not like to get confounded by the various technicalities that bound to be associated with a project of this kind. A simple economic analysis that gives the actual comparison of costs and benefits is much more meaningful in such cases.

In the system, the organization is most satisfied by economic feasibility. Because, if the organization implements this system, it need not require any additional hardware resources as well as it will be saving lot of time.

2.) TECHNICAL ANALYSIS

Technical feasibility centers on the existing manual system of the test management process and to what extent it can support the system. According to feasibility analysis procedure the technical feasibility of the system is analyzed and the technical requirements such as software facilities, procedure, inputs are identified. It is also one of the important phases of the system development activities. The system offers greater levels of user friendliness combined with greater processing speed. Therefore, the cost of maintenance can be reduced. Since, processing speed is very high and the work is reduced in the maintenance point of view management convince that the project is operationally feasible.

3) BEHAVIOURAL ANALYSIS

People are inherently resistant to change and computer has been known to facilitate changes. An estimate should be made of how strong the user is likely to move towards the development of computerized system. These are various levels of users in order to ensure proper authentication and authorization and security of sensitive data of the organization.

4.3 RESULTS AND DISCUSSION

Implementation

Implementation is the stage of the project where the theoretical design is turned into a working system. At this stage the main work load, the greatest upheaval and the major impact on the existing system shifts to the user department.

The new system may be totally new, replacing an existing manual or automated system or it may be a major modification to an existing system. Proper implementation is essential to provide a reliable system to meet the organization requirements.

Chapter-5

5. CONCLUSION AND SUMMARY

The Student Project desk is developed using html,Css,Js and php

MYSQL fully meets the objectives of the system for which it has been developed. The system has reached a steady state where all bugs have been eliminated. The system is operated at a high level of efficiency and all the teachers and user associated with the system understands its advantage. The system solves the problem of students. It was intended to solve as requirement specification.

SUMMARY:

Designing Student Project Desk requires much effort to construct good projects, especially to assess higher order skills and some skills such as written expression or creativity cannot be tested at all. With careful planning and systematic monitoring Student desk can be a passable alternative in case projects has to be accomplished with limited personal and financial resources

REFERENCES:

[1] www.w3schools.com Five Easy but Effective

JS Methods. pages 1–44, 2015.

[2] www.tutorialspoint.com Assessing

Cascading style sheet. 2014.

[3] www.quroa.com. (html)pages 1–15, 2015.

[4] Bootstrap official website (Specification).

APPENDIX

LOGIN

```
<html>
<head>
<title>SPD</title>
<link rel="stylesheet" type="text/css" href="aa.css">
</head>
<body>
  <form action ="logi.php" method="post">
    <div class ="loginbox">
      <h2>Login here</h2>
      <div class="inputbox">
        <input type="text" name="username" placeholder="" required>
        <label>Username</label>
      </div>
      <div class="inputbox">
        <input type="text" name="email" placeholder=" " required>
        <label>Email</label>
      </div>
      <div class="inputbox">
        <input type="password" name="pass" placeholder="" required>
        <label>Password</label>
      </div>
      <div class="inputbox">
        <input type="number" name="phno" placeholder="" required>
        <label>Phone number</label>
      </div>
    </div>
  </form>
</body>
</html>
```

```

        </div>

        <a href="home.html"><input type="submit" name="submit" value="submit"
></a>
</div>
</form>
</body>
</html>

```

Php

```

<?php
$con=mysqli_connect("localhost","root","");
mysqli_select_db($con,"demo1");
if(isset($_POST['submit']))
{
$username=$_POST['username'];
$email=$_POST['email'];
$password=$_POST['pass'];
$phno=$_POST['phno'];

$query="insert into login(username,email,password,phoneno) values ('$username', '$email', '$password', '$phno')";

if(mysqli_query($con,$query))
{
echo '<!DOCTYPE html>
<html>
<style>
body, html {
    height: 100%;
    margin: 0;
}

.bgimg {
    background-image: url("k.jpg");
    height: 100%;
    background-position: center;
    background-size: cover;
    position: relative;
    color: white;
    font-family: "Courier New", Courier, monospace;
    font-size: 25px;
}

```

```

.topleft {
  position: absolute;
  top: 0;
  left: 16px;
}

.bottomleft {
  position: absolute;
  bottom: 0;
  left: 16px;
}

.middle {
  position: absolute;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
  text-align: center;
}

hr {
  margin: auto;
  width: 40%;
}
</style>
<body>

<div class="bgimg">
  <div class="topleft">
    <p>SPD</p>
  </div>
  <div class="middle">
    <h1>WELCOME TO SPD</h1>
    <hr>
    <p>Welcome to SPD.SPD stands for student project desk.</p>
    <p>GOAL</p>
    <p>1.If a person has no idea about how to do the project.We from SPD has
    took some measures to solve the problem.By giving the basic idea.And we loa
    ded some exclusive projects
      2.If a person has some idea about how to do the project but does not kno
    w whether we are travelling in a correct path or not.OR If you have interest
    on of the senior projects You can collaborate with them .
      by filling the profile.Then later we will be forwarding.
      3.If a person has some interest on paper presentation.He/she can refer p
    resentation from SPD.</p>
  </div>
  <div class="bottomleft">

```

```

        <p><a href="http://localhost/stu">Continue</a></p>
    </div>
</div>

</body>
</html>
';
}
}
?>

```

HOME PAGE:

```

<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<meta charset="utf-8">
<title>STUDENT PROJECT DESK</title>
<meta name="viewport" content="width=device-width, initial-scale="1.0">
<link rel="stylesheet" type="text/css" href="style.css">
<script src="https://kit.fontawesome.com/a076d05399.js"></script>
</head>
<body>
<nav>
<input type="checkbox" id="check">
<label for="check" class="checkbtn">
<i class="fas fa-bars"></i>
</label>
<label class="logo">STUDENT PROJECT DESK</label>
<ul>
<li><a class="action" href="home.html">Home</a></li>
<li><a href="proj.html">Projects</a></li>
<li><a href="ieee.html">IEEE</a></li>
<li><a href="Feedback.html">Feedback</a></li>
<li><a href="about.html">About</a></li>
</ul>
</nav>
<!--page wrapper-->
<div class="page-wrapper">
    <!--postslider-->
    <div class="post-slider">
        <h1 class="slider-title">
            Trending Fields
        </h1>
        <i class="fas fa-chevron-left prev"></i>
        <i class="fas fa-chevron-right next"></i>
    </div>

```

```

<div class="post-wrapper">

  <div class="post">
    
    <div class="post-info">
      <h4><a href="temp.html">Data Analytics</a></h4>
      <i class="far fa-user">Ak</i>
      &nbsp;
      <i class="far fa-calender">August 22 2020</i>
    </div>
  </div>

  <div class="post">
    
    <div class="post-info">
      <h4><a href="hiot.html">Internet of things</a></h4>
      <i class="far fa-user">Ak</i>
      &nbsp;
      <i class="far fa-calender"> August 22 2020 </i>
    </div>
  </div>

  <div class="post">
    
    <div class="post-info">
      <h4><a href="hml.html">Machine Learning</a></h4>
      <i class="far fa-user">Ak</i>
      &nbsp;
      <i class="far fa-calender"> August 22 2020 </i>
    </div>
  </div>

  <div class="post">
    
    <div class="post-info">
      <h4><a href="he.html">Embedded circuits</a></h4>
      <i class="far fa-user">Ak</i>
      &nbsp;
      <i class="far fa-calender"> August 22 2020 </i>
    </div>
  </div>

  <div class="post">
    
    <div class="post-info">
      <h4><a href="cyber.html">Cyber security</a></h4>
      <i class="far fa-user">Ak</i>
      &nbsp;

```



09/06/2020

Akassh P

has successfully completed

Introduction to HTML5

an online non-credit course authorized by University of Michigan and offered through Coursera

A handwritten signature in blue ink that reads 'Colleen van Lent'.

Colleen van Lent, Ph.D.
Lecturer
School of Information, University of Michigan

A handwritten signature in black ink that reads 'Charles'.

Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE CERTIFICATE



Verify at coursera.org/verify/L5EQQSYR8KH9
Coursera has confirmed the identity of this individual and
their participation in the course.



Career Development

CERTIFICATE OF COMPLETION

This is to certify that

P. AKASH - 37120005

has Successfully Completed

Internship / Inplant training in DOTNET from 24/12/19 to 28/12/19

During the training period the performance of the trainee was found to be excellent.

Congratulations on your hard work! keep shining!



Jayalakshmi S
Vice President





NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

AKASSH P

for successfully completing the course

C Programming and Assembly Language

with a consolidated score of **53** %

Online Assignments	11.58/25	Proctored Exam	41.51/75
--------------------	----------	----------------	----------

Devendra Jalihal

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Total number of candidates certified in this course: **280**

Jul-Aug 2019
(4 week course)

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



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