VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI – 590018, Karnataka

INTERNSHIP REPORT

ON

"Online Tutoring Site For MJ Tutorials"

Submitted in partial fulfilment for the award of degree(18CSI85)

BACHELOR OF ENGINEERING IN
Computer Science

Submitted by:

NAME: MONIKA H M
USN :   4VM19CS030

Conducted at
SAIN INFORMATIX

VIDYA VIKAS INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#127-128, Mysore - Bannur Road, Alanahally, Mysuru, Karnataka 570028
Vidya Vikas Educational Trust ®

VIDYA VIKAS INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#127-128, Mysore - Bannur Road, Alanahally, Mysuru, Karnataka 570028

Vidya Vikas Educational Trust ®

CERTIFICATE

This is to certify that the Internship titled **"Online Tutoring Site For MJ Tutorials"** carried out by **Ms.Monika H M,** a bonafide student of vidya vikas institute of engineering and technology, in partial fulfillment for the award of **Bachelor of Engineering**, in **Computer Science** under Visvesvaraya Technological University,Belagavi, during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report.

The project report has been approved as it satisfies the academic requirements in respect

of Internship prescribed for the course Internship / Professional Practice (18CSI85)

Signature of Guide   **Signature of HOD**   **Signature of Principal**

External Viva:

Name of the Examiner   Signature with Date

1)_____

_____

2)_____

_____

D E C L A R A T I O N

I, **Monika H M**, final year student of Computer Science, vidya vikas institute of engineering- 560028, declare that the Internship has been successfully completed, in **SAIN INFORMATIX** This report is submitted in partial fulfillment of the requirements for award of Bachelor Degree in Branch name, during the academic year 2022-2023.

USN :   4VM19CS030

NAME :   MONIKA H M

OFFER LETTER PROVIDED BY THE COMPANY

INTERNSHIP OFFER LETTER

SAIN INFORMATIX

Date: **23rd August, 2022**

Name: **Monika H M**
USN: **4VM19C030**

Dear Student,

We would like to congratulate you on being selected for the **Full Stack Web Development** Internship position with **Sain Informatix Pvt Ltd**, effective Start Date **23rd August, 2022**, All of us are excited about this opportunity provided to you!

This internship is viewed as being an educational opportunity for you, rather than a part-time job. As such, your internship will include training/orientation and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts of **Full Stack Web Development** through hands-on application of the knowledge you learn while you train with the senior developers. You will be bound to follow the rules and regulations of the company during your internship duration.

Again, congratulations and we look forward to working with you!.

Sincerely,

Santhu
Product Manager
SAIN INFORMATIX PVT LTD
Bangaluru, India

A C K N O W L E D G E M E N T

This Internship is a result of accumulated guidance, direction and support of several important persons. We take this opportunity to express our gratitude to all who have helped us to complete the Internship.

We express our sincere thanks to our Principal, for providing usadequate facilities to undertake this Internship.

We would like to thank our Head of Dept, for providing us an opportunity to carry out Internship and for his valuable guidance and support.

We would like to thank all the faculty members of our department for the support extended during the course of Internship.

We would like to thank the non-teaching members of our dept, for helping us during the Internship.

Last but not the least, we would like to thank our parents and friends without whose constant help, the completion of Internship would have not been possible.

NAME :   MONIKA H M
USN : 4VM19CS030

ABSTRACT

Online tutoring website , in this project we develop a online platform for students to get knowledge. The tool helps the student to get knowledge about a specific subject. This helps the students to gain knowledge when they wanted and they can go through the topics at anytime. Our system takes user interactivity and We have used browser fronted. The students are able to register for the tutoring site and can gain information.

Table of Contents

Sl no	Description	Page no
1	Company Profile	8
2	About Company	9-11
3	Introduction	12-13
4	System Analysis	14-15
5	Requirement Analysis	16
6	Design Analysis	17
7	Implementation	18-26
8	Snapshots	27-30
9	Conclusion	31
10	References	32

1. <u>COMPANY PROFILE</u>

A Brief History of Sain Informatix :

Sain Informatix, was incorporated with a goal "To provide high quality and optimal Technological Solutions to business requirements of our clients". Every business is a different and has a unique business model and so are the technological requirements. They understand this and hence the solutions provided to these requirements are different as well. They focus on clients requirements and provide them with tailor made technological solutions. They also understand that Reach of their Product to its targeted market or the automation of the existing process into e-client and simple process are the key features that our clients desire from Technological Solution they are looking for and these are the features that we focus on while designing the solutions for their clients.

Sarvamoola Software Services. is a Technology Organization providing solutions for all web design and development, MYSQL, PYTHON Programming, HTML, CSS, ASP.NET and LINQ. Meeting the ever increasing automation requirements, Sarvamoola Software Services. specialize in ERP, Connectivity, SEO Services, Conference Management, effective web promotion and tailor-made software products, designing solutions best suiting clients requirements.

Sain Informatix, strive to be the front runner in creativity and innovation in software development through their well-researched expertise and establish it as an out of the box software development company in Bangalore, India. As a software development company, they translate this software development expertise into value for their customers through their professional solutions.

They understand that the best desired output can be achieved only by understanding the clients demand better. Sain Informatix work with their clients and help them todefiine their exact solution requirement. Sometimes even they wonder that they have completely redefined their solution or new application requirement during the brainstorming session, and here they position themselves as an IT solutions consulting group comprising of high caliber consultants.

They believe that Technology when used properly can help any business to scale and achieve new heights of success. It helps Improve its efficiency, profitability, reliability; to put itin one sentence " Technology helps you to Delight your Customers" and that is what we wantto achieve.

2. <u>ABOUT THE COMPANY</u>

 Sain Informatix is a Technology Organization providing solutions for all web design and development, MYSQL, PYTHON Programming, HTML, CSS, ASP.NET and LINQ. Meeting the ever increasing automation requirements, Sain INformatix specialize in ERP, Connectivity, SEO Services, Conference Management, effective webpromotion and tailor-made software products, designing solutions best suiting clients requirements. The organization where they have a right mix of professionals as a stakeholders to help us serve our clients with best of our capability and with at par industry standards.They have young, enthusiastic, passionate and creative Professionals to develop technological innovations in the field of Mobile technologies, Web applications as well as Business and Enterprise solution. Motto of our organization is to "Collaborate with our clients to provide them with best Technological solution hence creating Good Present and Better Future for our client which will bring a cascading a positive effect in their business shape as well". Providing a Complete suite of technical solutions is not just our tag line, it is Our Vision for Our Clients and for Us, We strive hard to achieve it.

Products of Sain Informatix :

Android Apps

It is the process by which new applications are created for devices running the Android operating system. Applications are usually developed in Java (and/or Kotlin; or other such option) programming language using the Android software development kit (SDK), but other development environments are also available, some such as Kotlin support the exact same Android APIs (and bytecode), while others such as Go have restricted API access.

The Android software development kit includes a comprehensive set of development tools. These include a debugger, libraries, a handset emulator based on QEMU, documentation, sample code, and zutorials. Currently supported development platforms include computers running Linux (any modern desktop Linux distribution), Mac OS X 10.5.8 or later, and Windows 7 or later. As of March 2015, the SDK is not available on Android itself, but softwaredevelopment is possible by using specialized Android applications.

Web Application

It is a client–server computer program in which the client (including the user interface and client- side logic) runs in a web browser. Common web applications include web mail, online

retail sales, online auctions, wikis, instant messaging services and many other functions. web applications use web documents written in a standard format such as HTML and JavaScript,which are supported by a variety of web browsers. Web applications can be considered as a specifific variant of client–server software where the client software is downloaded to the client machine when visiting the relevant web page, using standard procedures such as HTTP. The Client web software updates may happen each time the web page is visited. During the session, the web browser interprets and displays the pages, and acts as the universal client for any web application. The use of web application frameworks can often reduce the number of errors in a program, both by making the code simpler, and by allowing one team to concentrate on the framework while another focuses on a specifified use case. In applications which are exposed to constant hacking attempts on the Internet, security-related problems can be caused by errors in the program.

Frameworks can also promote the use of best practices such as GET after POST. There are some who view a web application as a two-tier architecture. This can be a "smart" client that performs all the work and queries a "dumb" server, or a "dumb" client that relies on a "smart" server. The client would handle the presentation tier, the server would have the database (storage tier), and the business logic (application tier) would be on one of them or on both. While this increases the scalability of the applications and separates the display and the database, it still doesn't allow for true specialization of layers, so most applications will outgrow this model. An emerging strategy for application software companies is to provide web access to software previously distributed as local applications. Depending on the type of application, it may require the development of an entirely different browser-based interface, or merely adapting an existing application to use different presentation technology. These programs allow the user to pay a monthly or yearly fee for use of a software application without having to install it on a local hard drive. A company which follows this strategy is known as an application service provider (ASP), and ASPs are currently receiving much attention in the software industry.

Security breaches on these kinds of applications are a major concern because it can involve both enterprise information and private customer data. Protecting these assets is an important part of any web application and there are some key operational areas that must be included in the development process. This includes processes for authentication, authorization, asset handling, input, and logging and auditing. Building security into the applications from the beginning can be more effective and less disruptive in the long run.

Web design

It is encompasses many different skills and disciplines in the production and maintenance of websites. The different areas of web design include web graphic design; interface design; authoring, including standardized code and proprietary software; user experience design; and

search engine optimization. The term web design is normally used to describe the design process relating to the front-end (client side) design of a website including writing mark up. Web design partially overlaps web engineering in the broader scope of web development. Web designers are expected to have an awareness of usability and if their role involves creating mark up then they are also expected to be up to date with web accessibility guidelines. Web design partially overlaps web engineering in the broader scope of web development.

Departments and services offered

Sain Informatix plays an essential role as an institute, the level of education, development of student's skills are based on their trainers. If you do not have a good mentor then you may lag in many things from others and that is why we at Sain Informatix gives you the facility of skilled employees so that you do not feel unsecured about the academics. Personality development and academic status are some of those things which lie on mentor's hands. If you are trained well then you can do well in your future and knowing its importance of Sain Informatixs always tries to give you the best.

They have a great team of skilled mentors who are always ready to direct their trainees in the best possible way they can and to ensure the skills of mentors we held many skill development programs as well so that each and every mentor can develop their own skills with the demands of the companies so that they can prepare a complete packaged trainee.

Services provided by Sain Informatix :

• Core Java and Advanced Java

• Web services and development

• Dot Net Framework

• Python

• Selenium Testing

• Conference / Event Management Service

• Academic Project Guidance

• On The Job Training

• Software Training

3. <u>INTRODUCTION</u>

Introduction to Web Apps

Web applications are similar to the traditional applications you'd install on your Information, such as Microsoft Office. They are able to perform the same kinds of tasks, they look the same and they feel the same but there is one key difference - the application itself is not installed on your phone or Information, but lives in the cloud. Web apps are not new, but it used to be that they were often unable to compete with more traditional applications for business critical functions or where rich user interaction was required. This is no longer the case. With the power of modern web technologies, we are able to design and build performing, secure, and feature rich applications that live in the cloud and bring with them a huge number of benefits.

1. They can be accessed from anywhere.

- Because web applications are built with web technologies and they run in a web browser Internet Explorer, Google Chrome, Mozilla Firefox – this allows them to be accessed from every web enabled tool. As long as you have an internet connection you can use them.

- It allows for remote working, it allows for rapid publishing of content, it allows for real time collaboration between teams. If you have web access, you have the ability to access your business tools.

2. They are cost effective.

- Web applications are cheaper to produce and maintain than traditional applications. No matter how many platforms your business uses (Mac, Linux, Windows) web application build can be used across them all.

3. They benefit from more rapid update cycles.

- A huge benefit of web applications is that when an update is released, all of your users are immediately using that version. This doesn't happen with installed applications, especially in large organizations with IT policies that restrict administrator access.

4. They are secure.

- Web developers have had to become experts in security – the web is a platform designed to share everything with everyone! As such, the types and levels of security included in web applications are often far greater than those seen in traditional applications.

- They also benefit from the ability to launch updates in real-time – the application on the servers is the application people are using. The applications on people's laptops however is the version last installed. And when those laptops get left on a train it's not a concern, as nothing is stored locally.

5. They enable more computing with fewer Information.

- Web applications push all of the hard work to the servers, and act as intermediaries between the user interface and the calculations happening behind the scenes. This means you can accomplish terrifyingly complex work on a tablet, or your phone.

- We've built web applications that allow people to understand the complex relationships between 250,000 pieces of art on their phones, and applications that run the business systems of one of the largest solar energy providers in the world. Often these products are not financially viable to build using traditional application processes.

Problem Statement

Develop an application which facilitates creation of web pages having a need to install any HTML editor based software and also which can be used by any novice user (no HTML knowledge needed) that is developing web pages on the online. This module is designed to reduce the process involved in managing the activity of customers and business where the business can sell their services and the customers can buy those.

Introduction to Online Tutoring Website Development

E-learning is a advantage to our education system. Todays technology is the most important factor responsible towards the development of online education. A decade back personalized guidance from the teacher is the possible way of learning. The traditional system of going to school and gaining a knowledge is only system we have in those days ,but nowadays due to the increased knowledge and technology we can get a information about the subjects in anytime and any where with the use of online tutoring sites. Our peoject give a site for registration for online tutoring system and you can gain information about science subject and this provides e-learning .

4. <u>SYSTEM ANALYSIS</u>

1.<u>EXISTING SYSTEM:</u>

The pre-existing system for this purpose is offline so doesn't require any device or internet connection. The only advantage of the traditional file system is security.

They are secured until anyone gets the physical access to them which is less likely if they are confidential. All the privileges are given by signature.

Every student wants to register requires to engage with representative of the institute to clear some basic queries which are simply found on the FAQ pages of the system websites.

<u>DISADVANTAGES OF EXISTING SYSTEM:</u>

- Everything is done on the paper and these are highly prone to damages and requires a good amount of security and space to store.
- Buying of goods more frequent than the online system.
- Editing is another level of problem in those paper documents the only option is to make new documents if any correction needs to be made that is not a good at all for the environment credentials.
- If these files are less in number than it is not that big problem but if the number increases then searching of a particular document can give a person nightmare as these are more prone to damages and even it gets searching job done the time required to do the job is not ideal at all.
- The indexing needs to be done manually for every file kept in record.
- Doesn't provide any backup.
- Requires to be at particular place to do a minor to major institution related work for employee.

2.PROPOSED SYSTEM:

The main purpose of this system is to manage the schedules, the times of students and tutors to have scheduled classes, managed time and to be able to get all of whoever is looking for a private class which is previously very hard and almost impossible for the most. Now, after being identifying the problems, and once the system is implemented, it will bring about the substantial benefits for all of the main users and the additional too

ADVANTAGES OF PROPOSED SYSTEM:

- Doesn't really require any paperwork just a standard agreement, could be damage by any disaster but have option to create backup, replicas can be created only by some clicks and can restore any time required.
- Only require a standard device which can be used to access the internet and good to go.
- Editing is not a problem.
- Increasing of files is also not an issue the automated system does everything like indexing, searching by itself and show user the abstract view.
- It can be accessed anytime and doesn't bounded by being at the specific location.

3.OBJECTIVE :

1) To create a system that is user friendly and simple as possible for users.
2) To create a system that make available a virtual class that is not limited to any number of students.
3) To increase the throughput by increasing the number of students that could participate in a particular tutorial class per unit time.
4) To employ the use of internet technology to influence tutorial delivery.
5) To design a system that made available videos, audios, images and texts type of documents for learning system.

5. REQUIREMENT ANALYSIS

Hardware Requirement Specification

- MySQL

- NODE JS

- Notepad++ Editor

- Processor: Intel core i5 processer

- Memory: 15.6 GB

- Hard Disk: 40 GB

Software Requirement Specification

A] Functional Requirements
- OPERATING SYSTEM : WINDOWS 10,11
- SOFTWARE USED : Visual studio , XAAMP
- Front End : HTML , CSS
- .Back End : SQL Database,PHP
-

B] Non-Functional Requirements

- **Availability**

The online registration system shall permit backing up of the registration database whileother registration actives are going on.

- **Accessibility**

The system shall be accessible by people with specific vision needs to the extent that a user shall be able to display whole user interface in a larger font without truncating displayed text or other values.

- **Security**

The access permissions for system data may only be change by the systems data administrator passwords shall never be viewable at the point of entry or any other time.

6.DESIGN & ANALYSIS

Modules Used:

LOG IN : this will take the user input as user ID and password for log in into the site this will maintain the privacy and the individual profile is maintained and secured.

Registration : this will take the necessary details that are required for the registration to the site.

Submit : after filling registration the submit button is pressed and the student is successfully registered.

Description : this will give the information about the subject and topic.

Database : this will store the data .

7.IMPLEMENTATION

Implementation is the stage where the theoretical design is turned into a working system. The most crucial stage in achieving a new successful system and in giving confidence on the new system for the users that it will work efficiently and effectively.

The system can be implemented only after thorough testing is done and if it is found to work according to the specification. It involves careful planning, investigation of the current system and it constraints on implementation, design of methods to achieve the change over and an evaluation of change over methods a part from planning.

Two major tasks of preparing the implementation are education and training of the users and testing of the system. The more complex the system being implemented, the more involved will be the system analysis and design effort required just for implementation.

The implementation phase comprises of several activities. The required hardware and software acquisition is carried out. The system may require some software to be developed. For this, programs are written and tested. The user then changes over to his new fully tested system and the old system is discontinued.

TESTING

The testing phase is an important part of software development. It is the Information zed system will help in automate process of finding errors and missing operations and also a complete verification to determine whether the objectives are met and the user requirements are satisfied. Software testing is carried out in three steps:

1. The first includes unit testing, where in each module is tested to provide its correctness, validity and also determine any missing operations and to verify whether theobjectives have been met. Errors are noted down and corrected immediately.

2. Unit testing is the important and major part of the project. So errors are rectified easily in particular module and program clarity is increased. In this project entire system is divided into several modules and is developed individually. So unit testing is conducted to individual modules.

3. The second step includes Integration testing. It need not be the case, the software whose modules when run individually and showing perfect results, will also show perfect results when run as a whole.

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<!DOCTYPE html>
<!-- saved from url=(0053)file:///C:/Users/Mr.ADARSH/Downloads/index%20(3).html -->
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<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<link rel="stylesheet" href="./final_files/style.css">
<script type="text/javascript" src="./final_files/script.js.download"></script>
</head>
<body>
<div class="banner-container">
<div class="logo-cover"></div>
<div class="banner-container2">
<h1 style="margin-left: 70px;">Online regestation for student DATABASE
</h1>
<h1>
STUDENT REGISTRATION FORM
</h1>
<footer>
<p>
</p>
</footer>
</div>
</div>
<div class="fles">
<form name="RegForm" action="file:///C:/Users/Mr.ADARSH/Downloads/index%20(3).html"
onsubmit="return MYFUNC()" method="post">
<fieldset>
<h3 style="margin-left: 240px;">Personal details</h3>
<div class="wrapper">
<div class="input_wrapper">
<label for="first_name">FIRST NAME:</label>
<input type="text" id="first_name" class="box" required="">
</div>

<div class="input_wrapper">
<label for="last_name">LAST NAME:</label>
<input type="text" id="last_name" class="box" required="">
</div>
</div>
<div class="wrapper">
<div class="input_wrapper">
<label for="DOB">DATE OF BIRTH:</label>
```

```html
<!DOCTYPE html>
<!-- saved from url=(0053)file:///C:/Users/Mr.ADARSH/Downloads/index%20(3).html -->
<html lang="en"><head><meta http-equiv="Content-Type" content="text/html; charset=UTF-
8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<link rel="stylesheet" href="./final_files/style.css">
<script type="text/javascript" src="./final_files/script.js.download"></script>
</head>
<body>
<div class="banner-container">
<div class="logo-cover"></div>
<div class="banner-container2">
<h1 style="margin-left: 70px;">Online regestation for student DATABASE
</h1>
<h1>
STUDENT REGISTRATION FORM
</h1>
<footer>
<p>
</p>
</footer>
</div>
</div>
<div class="fles">
<form name="RegForm" action="file:///C:/Users/Mr.ADARSH/Downloads/index%20(3).html"
onsubmit="return MYFUNC()" method="post">
<fieldset>
<h3 style="margin-left: 240px;">Personal details</h3>
<div class="wrapper">
<div class="input_wrapper">
<label for="first_name">FIRST NAME:</label>
<input type="text" id="first_name" class="box" required="">
</div>

<div class="input_wrapper">
<label for="last_name">LAST NAME:</label>
<input type="text" id="last_name" class="box" required="">
</div>
</div>
<div class="wrapper">
<div class="input_wrapper">
<label for="DOB">DATE OF BIRTH:</label>


<input class="dateo" type="date" required="">
</div>
<div class="input_wrapper">
```

```html
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<input type="number" required="" class="box">
</div>
</div>
<div class="wrapper">
<div class="input_wrapper">
<label for="address">ADDRESS:</label>
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</div>
<div class="input_wrapper">
<label for="lang" aria-required="">LANGUAGE:</label>
<input type="text" class="box">
</div>
</div>
<div class="wrapper">
<div class="input_wrapper">
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<label for="f_oc">OCCUPATION:</label>
<input type="text" id="f_oc" required="" class="box">
</div>
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<div class="input_wrapper">
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</div>
<div class="wrapper">
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</div>
<div class="input_wrapper">
<label for="s_type">BOARD:</label>
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<option value="CBSE">CBSE</option>
<option value="STATE">STATE</option>
<option value="ICSE">ICSE</option>
<option value="science">science</option>
</select>
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</div>
<div class="input_wrapper">
<label for="s_date">YEAR:</label>
<input class="dateo" type="date" id="s_date">
</div>
</div>
<h4>Class 12</h4>
<div class="wrapper">
<div class="input_wrapper">
<label for="p_clg">COLLEGE NAME:</label>
<input type="text" id="p_clg" required="" class="box">
</div>
<div class="input_wrapper">
<label for="p_type">BOARD:</label>
<select class="dateo" id="p_type">
<option value="SELECT">SELECT BOARD</option>
<option value="CBSE">CBSE</option>


<option value="STATE">STATE</option>
<option value="ICSE">ICSE</option>
<option value="science">science</option>
</select>
```

```
</div>
</div>
<div class="wrapper">
<div class="input_wrapper">

<label for="p_perc">GRADE:</label>
<input type="text" id="p_perc" class="box">
</div>
<div class="input_wrapper">
<label for="p_date">YEAR:</label>
<input class="dateo" type="date" id="p_date">
</div>
</div>
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<div class="input_wrapper">
<label for="p_perc">ENTRANCE EXAM RANK:
</label>
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<div class="input_wrapper">
<label for="cat">CATEGORY:</label>
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<option value="SELECT">SELECT CATEGORY</option>
<option value="GEN">GENERAL</option>
<option value="OBC">OBC</option>
<option value="2A">2A</option>
<option value="2B">2B</option>
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<option value="ST">ST</option>
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</div>
</div>
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<div class="input_wrapper">
<label for="awards">SCIENCE INTRODUCTION TO ALL THE STUDENTS</label>
<textarea cols="50" rows="10" id="awards" class="area">What is Science?
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Science fundamentally is the systematic study of the structure and behavior of the natural and physical world through observations and experiments.

Study of science evolved with the civilization of human beings.

What is Technology?
Technology (which is basically derived from the Greek word 'technologia') is an art, skill or ability, which is used to create and develop products and acquire knowledge.

Scientists used their knowledge to develop technology and then used technology to develop Science; so, because of this reason science and technology are an integrated term in today's world.

Consider the following points to understand the relationship between Science and Technology −

Contribution of Science to Technology
Contribution of Technology to Science
Let us discuss these points in brief.

Contribution of Science to Technology
Let us now understand how Science has contributed to Technology −

Science as a direct source of new technological ideas
For example, innovation and development medical instruments; nuclear technology, radar system, etc.</textarea>
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<div class="wrapper">
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<label for="hobby">TOPICS IN SCIENCE 10TH,11TH,AND 12TH </label>

<textarea cols="50" rows="10" id="hobby" class="area">Science Stream Subjects after Class 10th
The science stream is further divided into 2 branches, namely medical (PCB) and non-medical (PCM) science stream.

The difference between the two lies in the choice of the third subject. While Physics and Chemistry are compulsory for both, the medical stream offers Biology as the 3rd compulsory subject, and the non-medical stream offers Mathematics. English is common to all streams and students can take up any optional subject to meet a total of 5 subjects.

Here is a detailed look into the compulsory subjects in the Science stream:

1. Physics

Physics is among the oldest academic fields in the world and is the science of matter, motion, energy, and force. It focuses on understanding how the universe behaves. Advances in the field of physics enable advancements in technologies, such as the study of electromagnetism, thermodynamics, mechanics, nuclear physics and solid-state physics.

Studying physics at Class 11-12 level will help you develop observational, analytical, investigatory and decision making skills, along with conceptual understanding, creative thinking, and problem-solving skills.

Examples of a few topics you will study are:

- Kinematics
- Laws of Motion
- Thermodynamics
- Electrostatics
- Electromagnetic Waves
- Electronic Devices
- After studying physics there are a variety of career options available, including working as a

physicist, astronaut, data scientist, technician, and engineer.

Read more: Career In Physics In India

2. Chemistry

Everything in the universe is made out of atoms and matter, and the study of Chemistry is based on the study of the composition, properties, and structure of matter, including atomic structure and the changes influenced by chemical reactions.

New areas in chemistry, such as synthetic materials, natural resources, biomolecules, and industrial chemistry are also included in the course at the Class 11-12 level, ensuring that you get a thorough understanding of Chemistry fundamentals and contemporary developments. Practical lab experiments further serve to support your theoretical studies.

Examples of topics you will study are:

Chemical Bonding and Molecular Structure
Chemical Thermodynamics
Organic Chemistry
Chemical Kinetics
Surface Chemistry
Career options after studying chemistry include working in research, pharmaceuticals, healthcare as lab scientists, chemical engineers, biochemists, flavour chemists, analytical chemists, etc.

Recommended Read: Chemistry Vs. Chemical Engineering: How Do the Two Fields Differ?

3. Biology

The term 'Biology' is derived from the Greek language, with 'bios' meaning life and 'logos' meaning study, literally translating into the study of life forms. And that's exactly what biology is. Biology studies living organisms – plants and animals – including facets such as their physical structures, physiological mechanisms, chemical processes, molecular interactions, and development and evolution.

The subject of Biology at the Class 11-12 level focuses on providing a firm conceptual basis while also connecting the study of the subject with real-life technology, environment, agriculture, health, and industry.

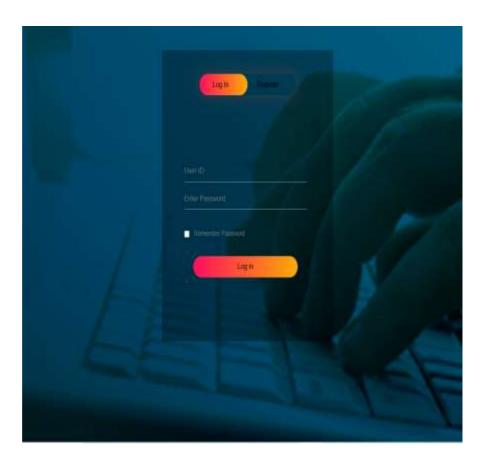Examples of topics you will study are:

Structural Organisation in Plants and Animals
Cell: Structure and Function
Plant Physiology
Human Physiology

Genetics and Evolution
Biotechnology and its Applications

Career opportunities after studying Biology are immense, including the most popular path of

Medicine, whether MBBS or Ayurveda or Homeopathy. Apart from medicine, you can pursue a variety of career paths such as biotechnology, dentistry, veterinary sciences, pharmaceuticals, botany, zoology, marine biology, genetics, bioinformatics, microbiology, and more.</textarea>
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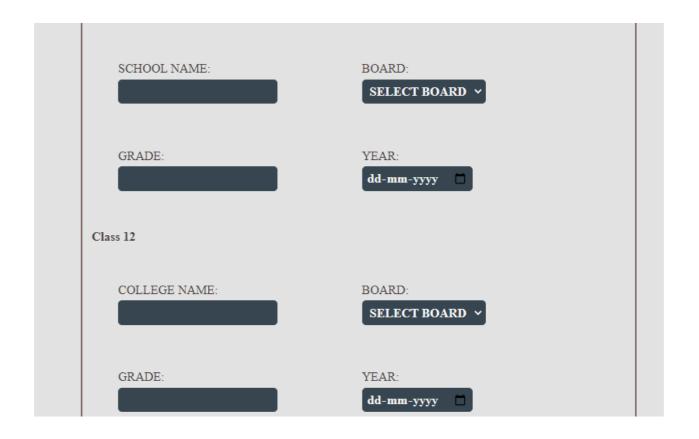</form>
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8.SNAPSHOTS

1. Login page

Online regestation for student DATABASE

STUDENT REGISTRATION FORM

Personal details

FIRST NAME:

LAST NAME:

DATE OF BIRTH:

dd-mm-yyyy

MOBILE:

ADDRESS:

LANGUAGE:

ADHAR/VOTER ID NUMBER:

Family details

FATHER NAME:

OCCUPATION:

PHONE NUMBER:
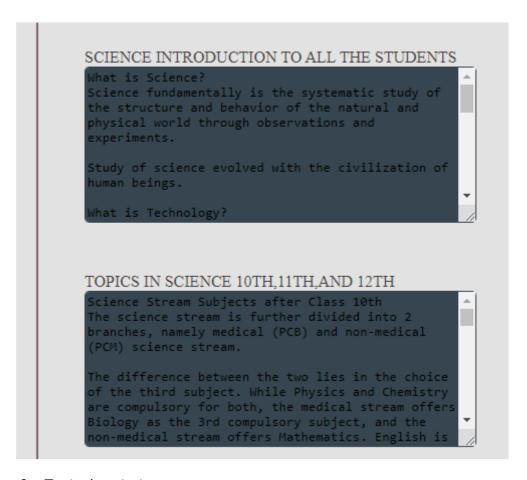
MOTHER NAME:

OCCUPATION:

PHONE NUMBER:

ANNUAL INCOME:
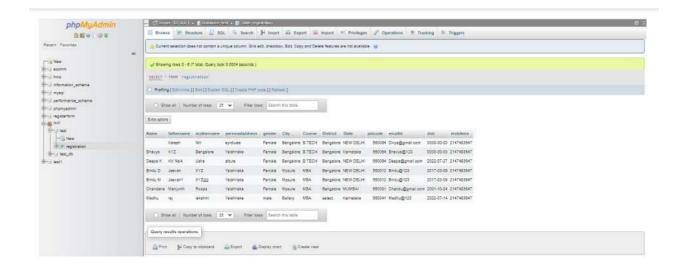
Academic details

Class 10

2. Registration form for tutorial

3. Topic description

4. Database of registered Science students

9.CONCLUSION

The package was designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project:

- ❖ Automation of the entire system improves the efficiency
- ❖ It provides a friendly graphical user interface which proves to be better when comparedto the existing system.
- ❖ It gives appropriate access to the authorized users depending on their permissions

- ❖ It effectively overcomes the delay in communications.

- ❖ Updating of information becomes so easier

- ❖ System security, data security and reliability are the striking features.

- ❖ The System has adequate scope for modification in future if it is necessary.

10.REFERENCE

http://youtube.com
https://www.geeksforgeeks.org/
https://www.w3schools.com/