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Maharashtra State Board of Technical Education

Certificate of Completion

Of Industrial Training

This is to certify that Mr./Ms. ………**Nehul Krushna Gangadhar**………. with Enrollment

No....**1801300114**..………………. has successfully completed Industrial Training (22409) in

………Web Development…… From …**25/06/2020**………… To …**30/07/2020**…………………...

for partial fulfilment towards completion of Diploma in Computer Technology / Engineering from Government Polytechnic, Ahmednagar.

Institute Code: 0130

Mentor	**Industrial Supervisor**
[Mr. N.B.Nake]	[Mr. Satish Bade]

Seal Of
Institute

H.O.D	**Principal**
[Mr.Sudhir Muley]	[Mr. Mukund Satarkar]

Abstract

In this given report, here is the information about industry, all the environment and experiences during the four weeks of industrial training at Brand Technology had been mentioned in the given report. Hands on practices of PHP, understanding Website development process, presentations, adapting to industrial environment, learning some new languages, working & testing on live project, safety precautions taken such things experienced and learned during four weeks of industrial training report.

Acknowledgement

We take this opportunity to thank our industrial supervisor Mr. Satish Bade and our mentor Mr.N.B.Nake for guiding throughout this training. We are pleased to take the Opportunity to complete industrial training and prepare report on **"Industrial Training at Brand Technology."**

The project would not have been completed without the valuable Guidance and encouragement of industrial supervisor and college staff.

Contents

Chapter 1: Organizational Structure of Brand Technology and general layout

Brand Technology is small scale business where some software are developed for the government aided and private type of businesses and organizations.

Brand Technology resides in Single floored building. The floor is divided within four rooms which are Main office Discussion room, waiting room and a separate room for working of technical team.

Main Room for group meetings

1st room for Technical team

Rooms have a special places for software developer team, database management room, designer team work area, discussion hall, server room, backup system area, office management and lastly a rest room.

2nd room for employees for software development

The company Brand Technology resides in 4 rooms. The main room is for group meetings, group discussions, and client meetings. Other two rooms used by other employees for software development process.

Current CEO – Satish Bade

Award distribution Ceremony

Special Lecture

Chapter 2: Introduction of Industry (Type of projects and services, history, turn over and number of employees etc.)

Brand Technology was started in 2017 by Satish Bade of Ahmednagar, Maharashtra. The company from start was named Brand Technology. Brand Technology started with the first project of ticket booking transport system (Apna Transport) and there by the journey started.

Currently the CEO of Brand Technology is Mr. Satish Bade followed by 3 PHP developers Mr. Akshay Nikam, Mr. Nilesh Borkar and Mr. Rahul Misal and a tester Mr. Prasad Chaudhari .

The company provide IT services and IT products. Brand technology is the end to end business solutions leverage technology for its clients. The company has completed around 50 projects.

Types of projects accomplished by Brand Technology:

Projects taken by Brand Technology include all the offline as well as online projects as per the requirements of customer.

Some Projects are:

1. Construction Site (Plan Management Construction System)

Large homepage gallery featuring completed projects.
Features:
   a) The title on each of the featured images is highlighting a core company
      value in a very clear way.
   b) The navigation clearly communicates your location on the site by using a subtle gradient and a small arrow on the active menu item.
   c) The completed work portfolio has a fun animated effect to move between the featured projects.
   d) The site has unique feature that allows the client to log into a secure section of the site to see details of their building project.
   e) The projects section contains an extensive list of completed projects.
   f) The user interface takes advantage of bread crumb navigation informing you of your location on the site at all times.
   g) As you navigate through the site, client testimonials are displayed in the right sidebar of some of the pages.

a) Generate queries according to

   • Awards achieved.
   • Courses they done.
   • Pen pictures.

• Basic details.

2. Hospital Site System (Valeo Health Centre)

a) Well—Planned Space Design.
b) Professional, Enthusiastic and Friendly Medical Personnel.
c) Thoughtful, Warm and Courteous Services
d) Ultra—Advanced Medical Facilities
e) Computerized Express Services
f) Medical Education and Research for Mankind
g) Excellent Ancillary Services
h) Thorough Consideration on the General Ward's Design
i) Social Services for the Public
j) Totally flexible Website

Description:

A hospital is a health care institution providing patient treatment with specialized medical and nursing staff and medical equipment. The best-known type of hospital is the general hospital, which typically has an emergency department to treat urgent health problems ranging from fire and accident victims to a sudden illness.

3. Transport (Mohan Transport)

Features:

a) System integration, network expansion
b) Service integration between different operators and across different modes, common ticketing system
c) Interconnection between systems, access to common infrastructure facilities by service operators, passenger and cargo traffic rights
d) Intermodal transport development and operation (for all modes)
e) All Maintenance Software for Transport

Description:

Road transport means transportation of goods and personnel from one place to the other on roads. Road is a route between two destinations, which has been either paved or worked on to enable transportation by way of motorised and non-motorised carriages. There are many advantages of road transport in comparison to other means of transport. The investment required in road transport is very less compared to other modes of transport such as railways and air transport.

4. Transport (Sapna Transport)

Features:

System integration, network expansion

Service integration between different operators and across different modes, common ticketing system

Interconnection between systems, access to common infrastructure facilities by service operators, passenger and cargo traffic rights

Intermodal transport development and operation (for all modes) All

Maintenance Software for Transport

Description:

Road transport means transportation of goods and personnel from one place to the other on roads. Road is a route between two destinations, which has been either paved or worked on to enable transportation by way of motorised and non-motorised carriages. There are many advantages of road transport in comparison to other means of transport. The investment required in road transport is very less compared to other modes of transport such as railways and air transport.

5. Jar System

Features:

a) Jar Management
b) Distributer jar filling Management
c) Billing
d) Reporting
e) Keeping a Record
f) Customer Payment Balance
g) Daily Jar Distribution Report
h) Detailed System

Description:

Financial Freedom Account (FFA - 10%): ... This jar is your ticket to financial freedom. The money that you put into this jar is used for investments and building. Your passive income streams.

7. Class System

Features:

a) Class system is an open system
b) Highly qualified Teachers
c) Extensive sports Programs
d) Extracurricular Activities
e) Website has a stylish designed look

   f) Easy to operate

  Description:

A class in education has a variety of related meanings. It can be the group of students which attends a specific course or lesson at a university, school, or other educational institution

8. Apna App

  Features:

   a) App is a user-friendly app
   b) Easy to use
   c) It has an attractive front end and a healthy backend.
   d) Steps are very easy for registration on the Application
   e) It is one of best products created by Brand Technology

  Description:

  Apna app is user-friendly app by Brand Technology, it is free to use application. The application is detailed with taking care of small to large things. An app with attractive interface and a proper managed and healthy backend. You can download the application form the official Google play store and also form the website of apnaapp.in. From the app you can create your complete professional digital visiting card.

9. Aaple Mart(E-commerce Websites Service)

  Features:

   a) It is an ecommerce website which interacts with the user and is easy to use
   b) High level coding is done in the Website
   c) It is highly Interactive and super-fast website
   d) It's homepage is full of different and attractive designs.

  Description:

It is an active professional website. From this website you can register your shop in a very easy and interactive way. Registration is simple and very fast.

10. Digital davandi website:

Features:

   a) One website but many things.
   b) The website is super-fast, interactive and easy to handle.

c) Digital front end designed, having multiple features
d) The provides you educational, rational, general, governmental, professional details about your current city properly and easily as it is an user-friendly system
e) Has Interactive Marathi language

Description:

It is a digital website displaying details about your city. Firstly the website is free to use and even easy to handle. It is very fast and interactive, plus one of the most highlighted thing about the website is that it is written in Marathi language. Because of the language many people who don't know English even are able to use the website easily, in here language barrier is not a problem. On the website you can get educational or professional or many other details in a digital and easy attractive way. The main goal is to convey information to the users in a good and understandable manner.

11. Live Project

Currently Brand Technology team is working on **Apnamart** project. It is a huge project which is being carried out by the team. It is a proper interactive website which is ongoing, it is going to be a fully responsive and healthy website.

Chapter 3: Types of major systems/ instruments used in industry with their specification, approximant cost and specific use
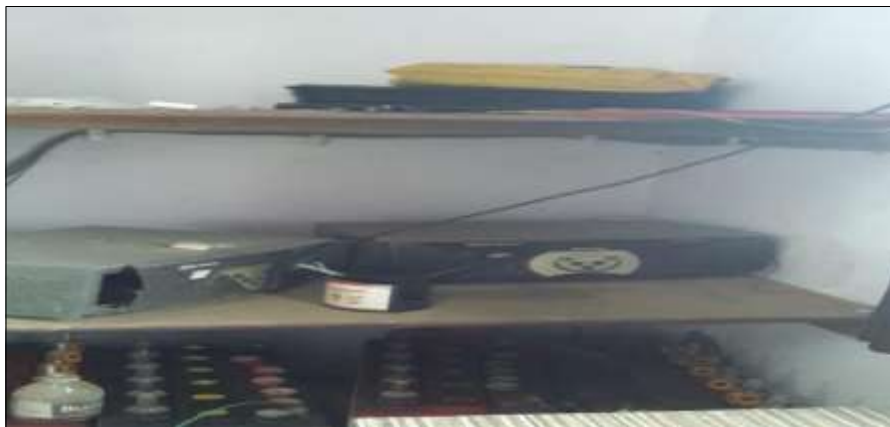
1.
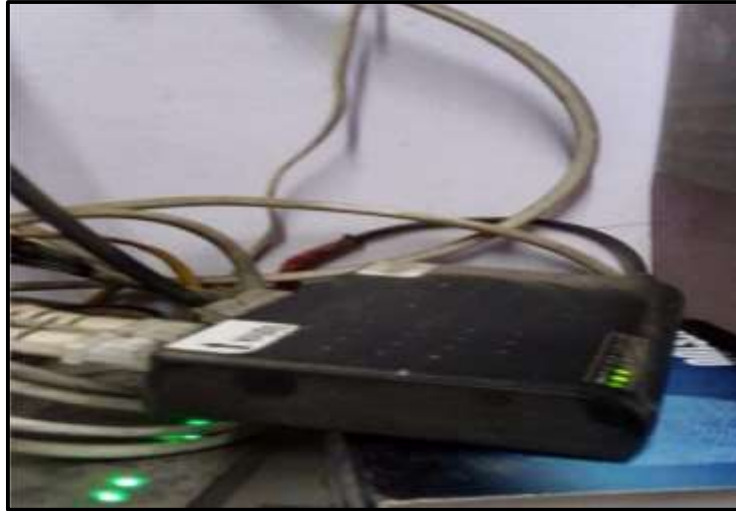
WIFI (2.4 GHz)	2 x 11N
Antenna	2.4G: External / 5dBi*2
LAN	4 x Fast Ethernet (1 switchable WAN)
Product	ADSL
USB	1 x USB 2.0

2.

D-Link DGS-1024D Network Switch

3.

Servers

Chapter 4: Software development Process along with project planning and development methods

During six weeks of industrial training, our target was to complete one sprint of software development process and we complete that sprint. Firstly, we prepared list of resources which will be required for our project such as "Database System".

- **Software development Process:**

1. Planning
2. Analysis
3. Design
4. Implementation
5. Testing and Integration
6. Maintenance

Chapter 5: Development, testing and designing of Website:

We tested some websites and developed our own complete website using HTML, CSS, PHP, MySql and bootstrap system during four weeks of industrial training. We performed testing on that website and generate test cases and also after testing the website. We prepare the tested report for summarization of testing and writing some suggestions. I developed an **Online Education Website**.

Report on Online Education Website:

Summarization:

This website is developed in very user-friendly way that it can be easily used by any one with not much technical knowledge. It is tested with various cases like an incorrect login details, invalid or blank data input, etc. It is also a responsive website.
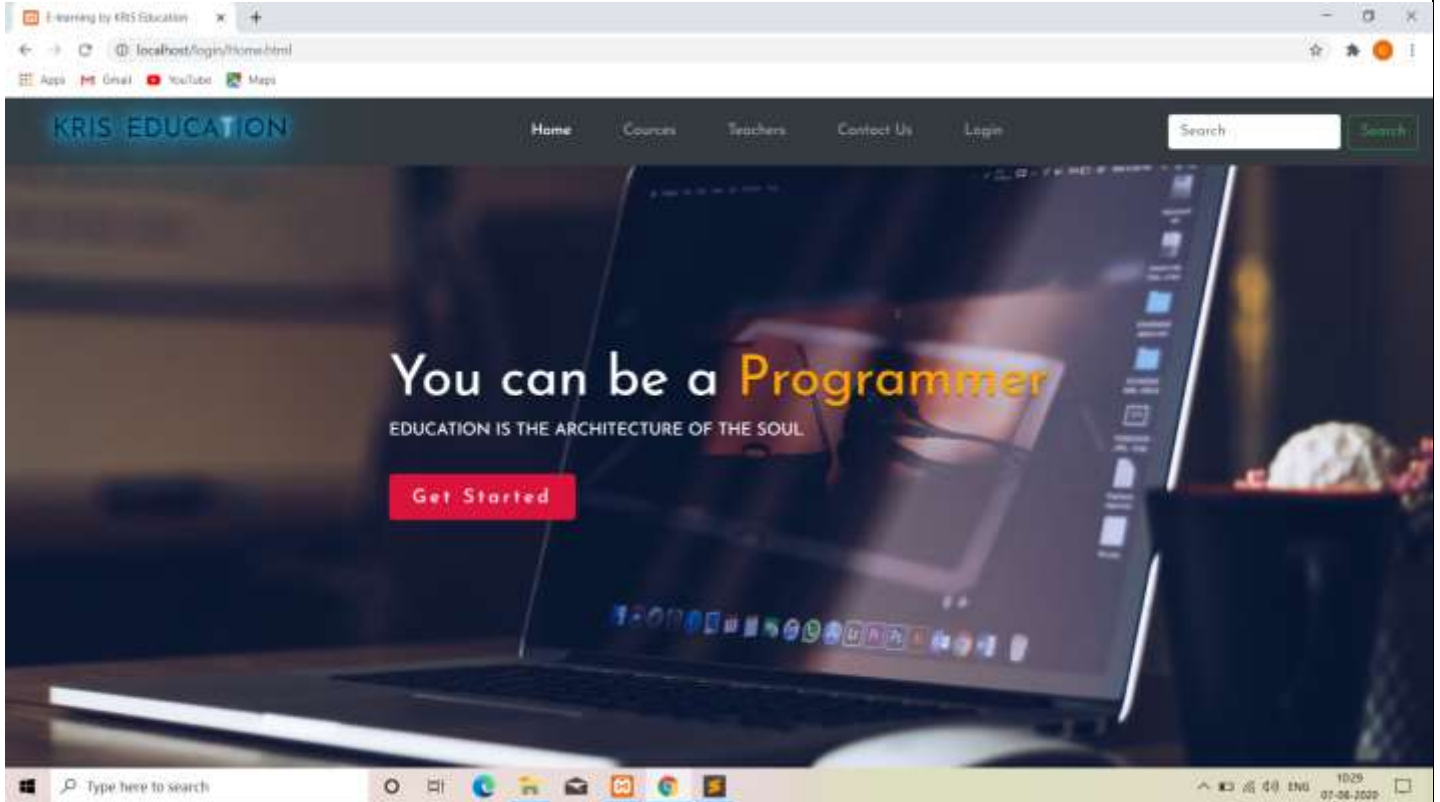
Test Cases:

1. Admin Login Failed
2. Invalid or blank data input

Planning of project:

Project planning and details of database, design and actual Website:

1. Finding a title and requirement analysis.

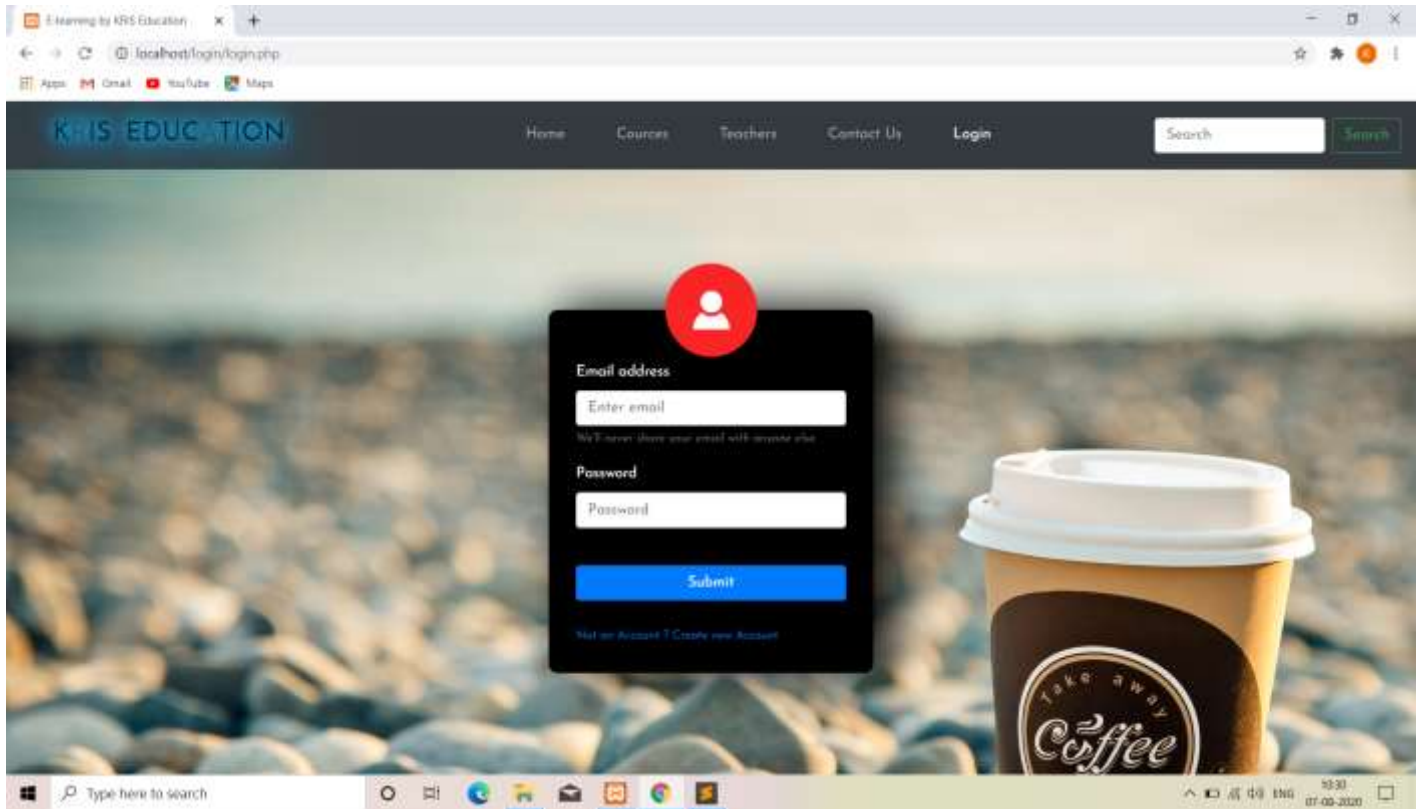2. Created a design (frontend) for the website.
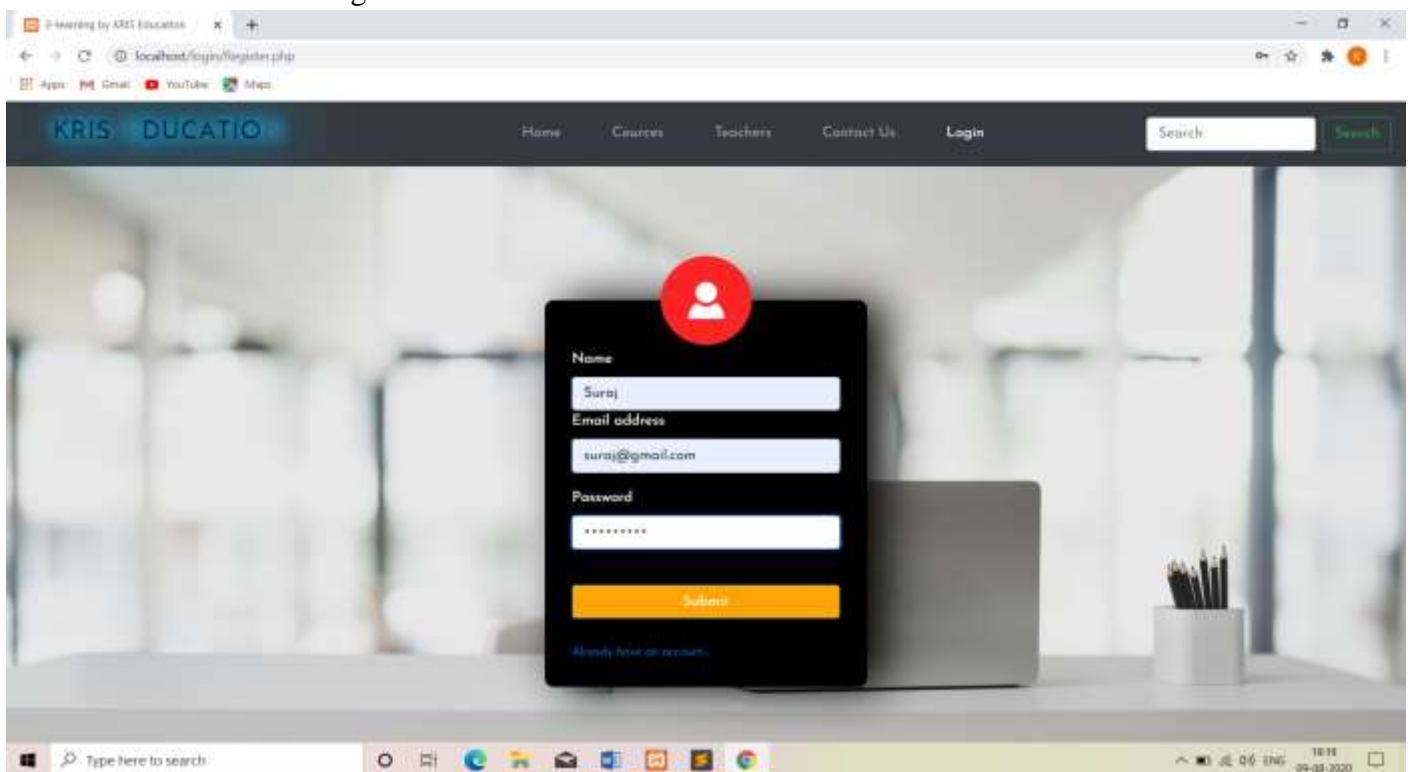
3. Staring to develop it.

Home Page:

Description: On home page you will get various options like Get Started, Courses, Teachers, Contact us and Login. We add an animation to our logo" KRIS EDUCATION".
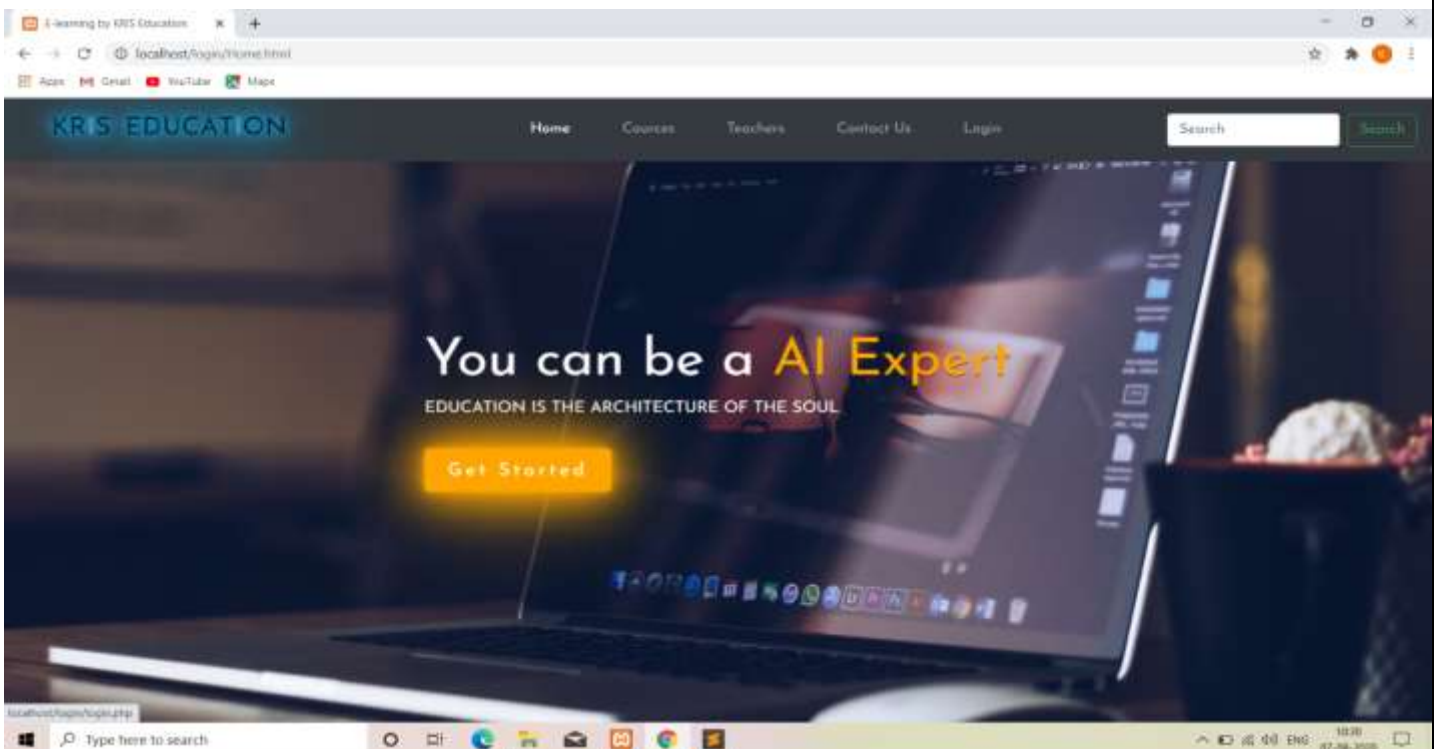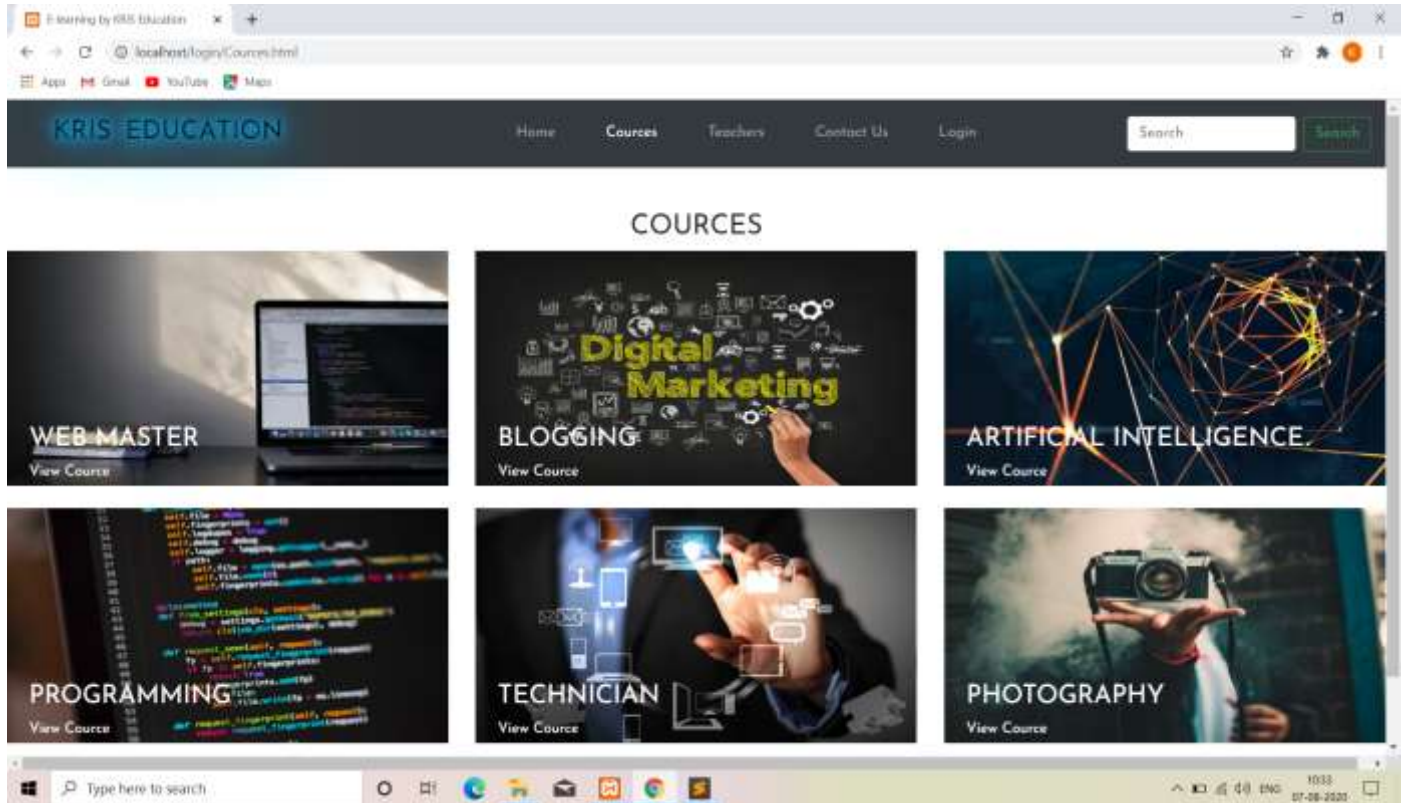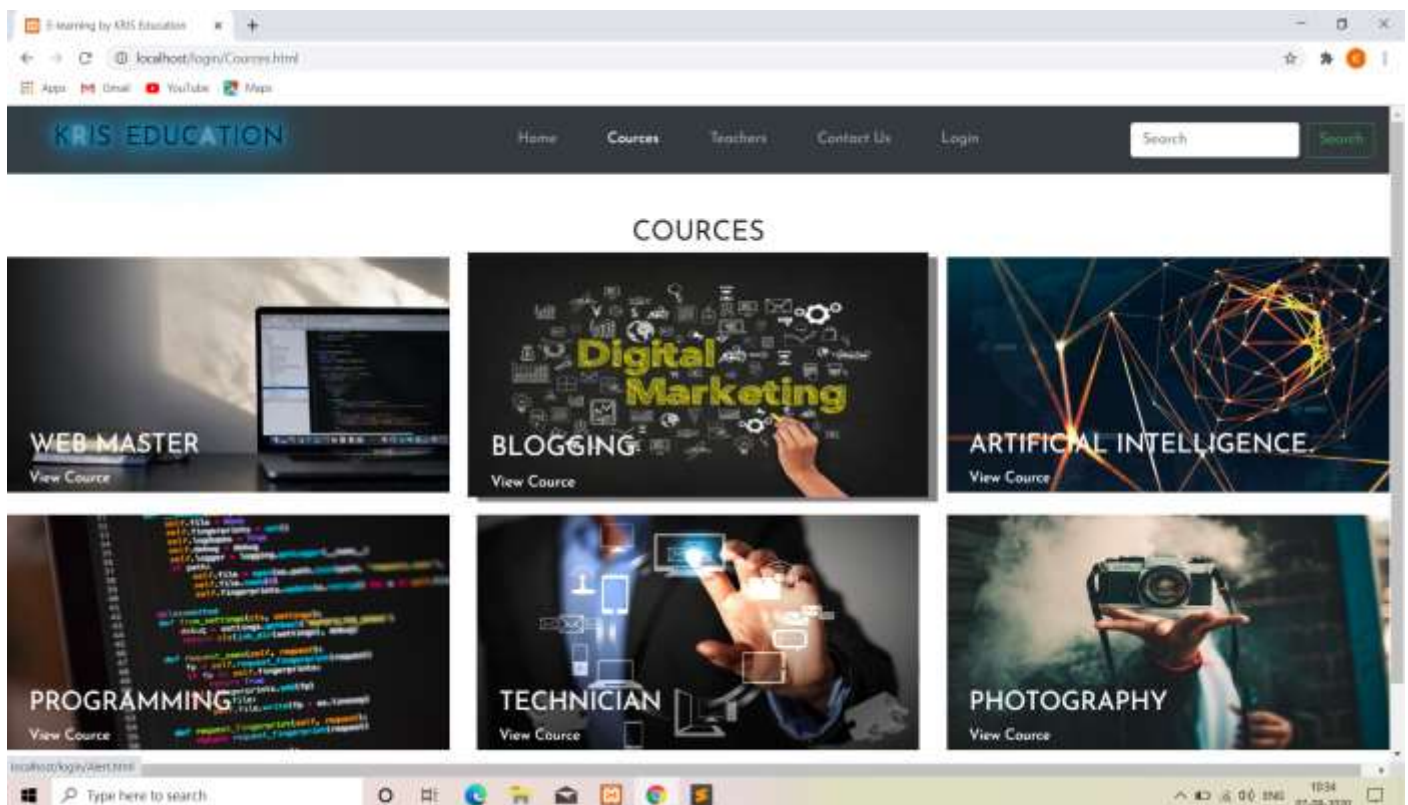
Login Page:

Description: On Login Page you will get two textfields for email address and password with a submit button. You will also get a link for creation of new account.
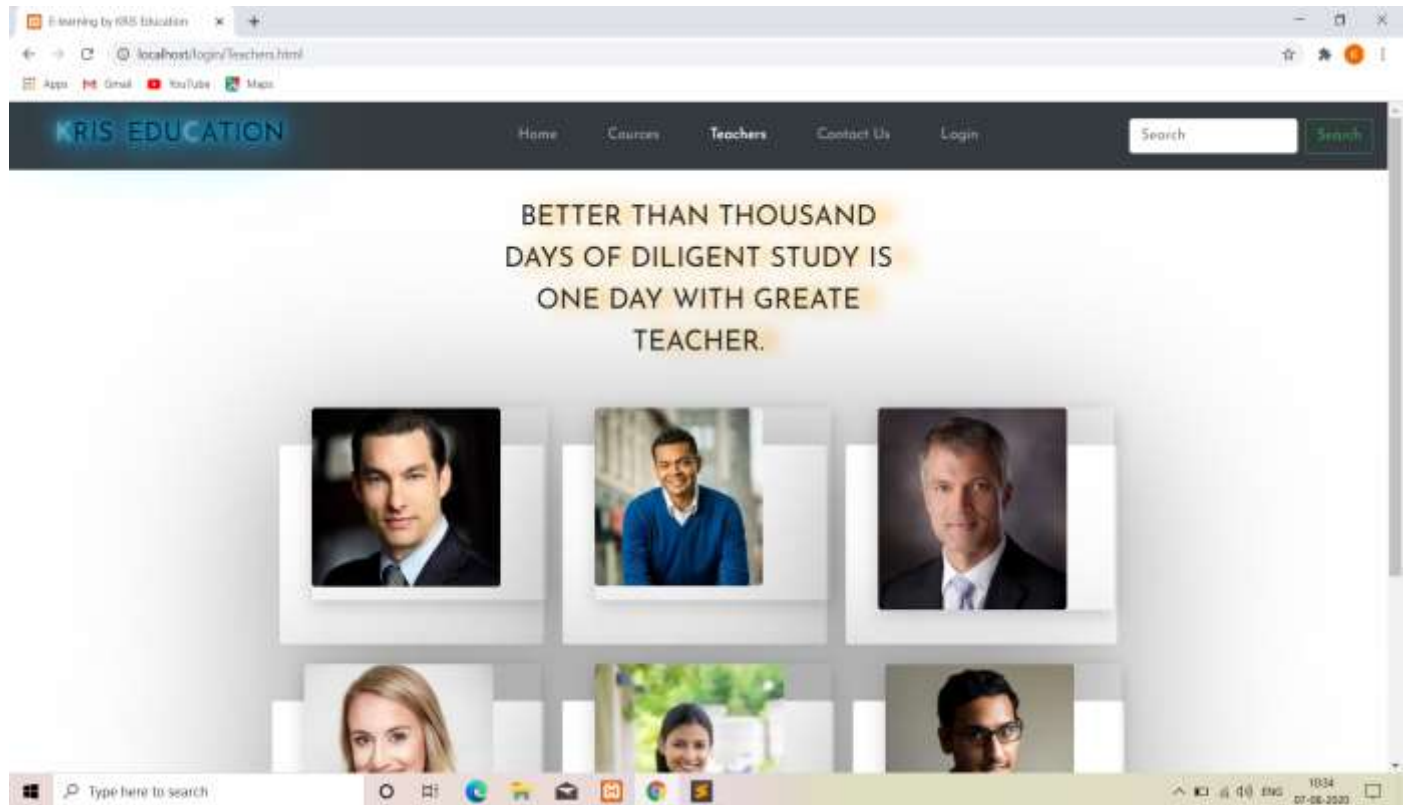
Courses:

Description: On this page you can see various courses to learn

Description: On the courses page there are 6 option/courses from which you can choose any one. Whatever courses you choose it will get highlighted and get added to your account.

Teachers Profile:

Description: On the Teachers page, the profile of professional teachers is available with their specialisation.
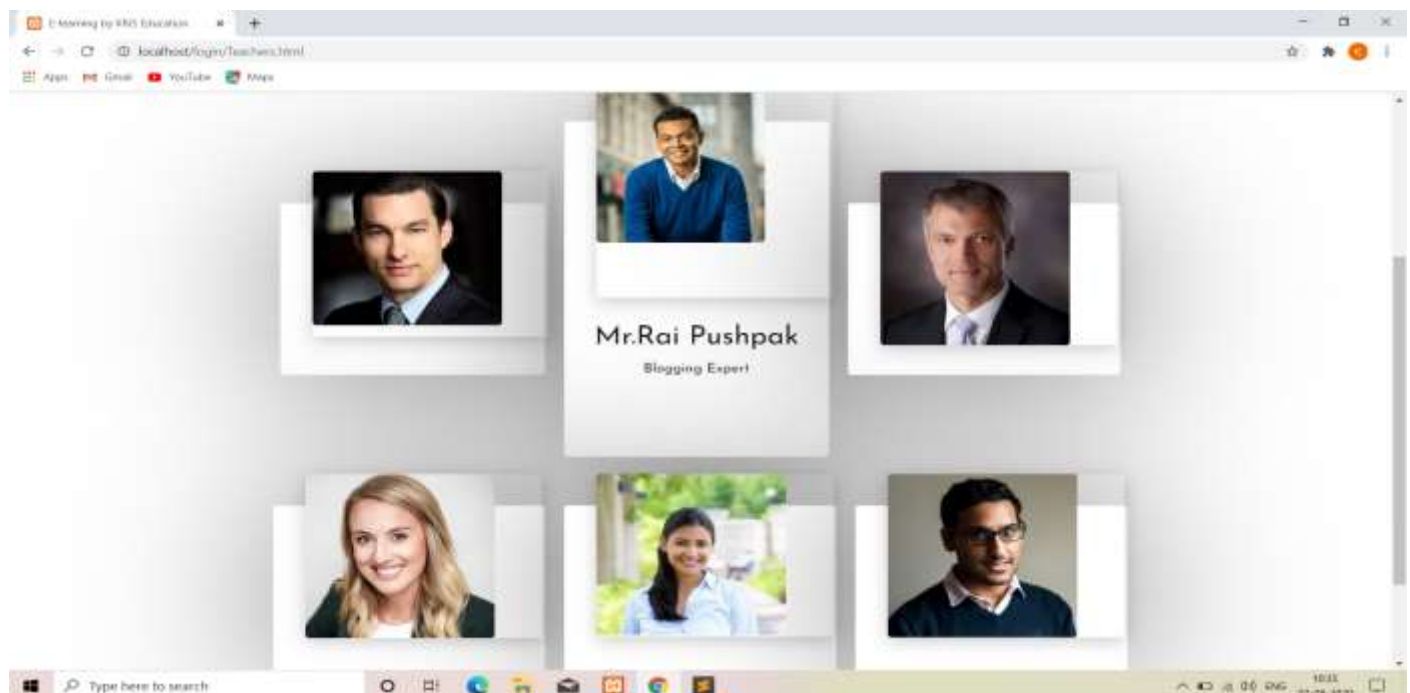
Description: When you move mouse on teacher's profile the name of teacher and his specialisation gets visible.

Contact Us:

Description: On this page you can get contact details of company with all social media accounts links.

Database:

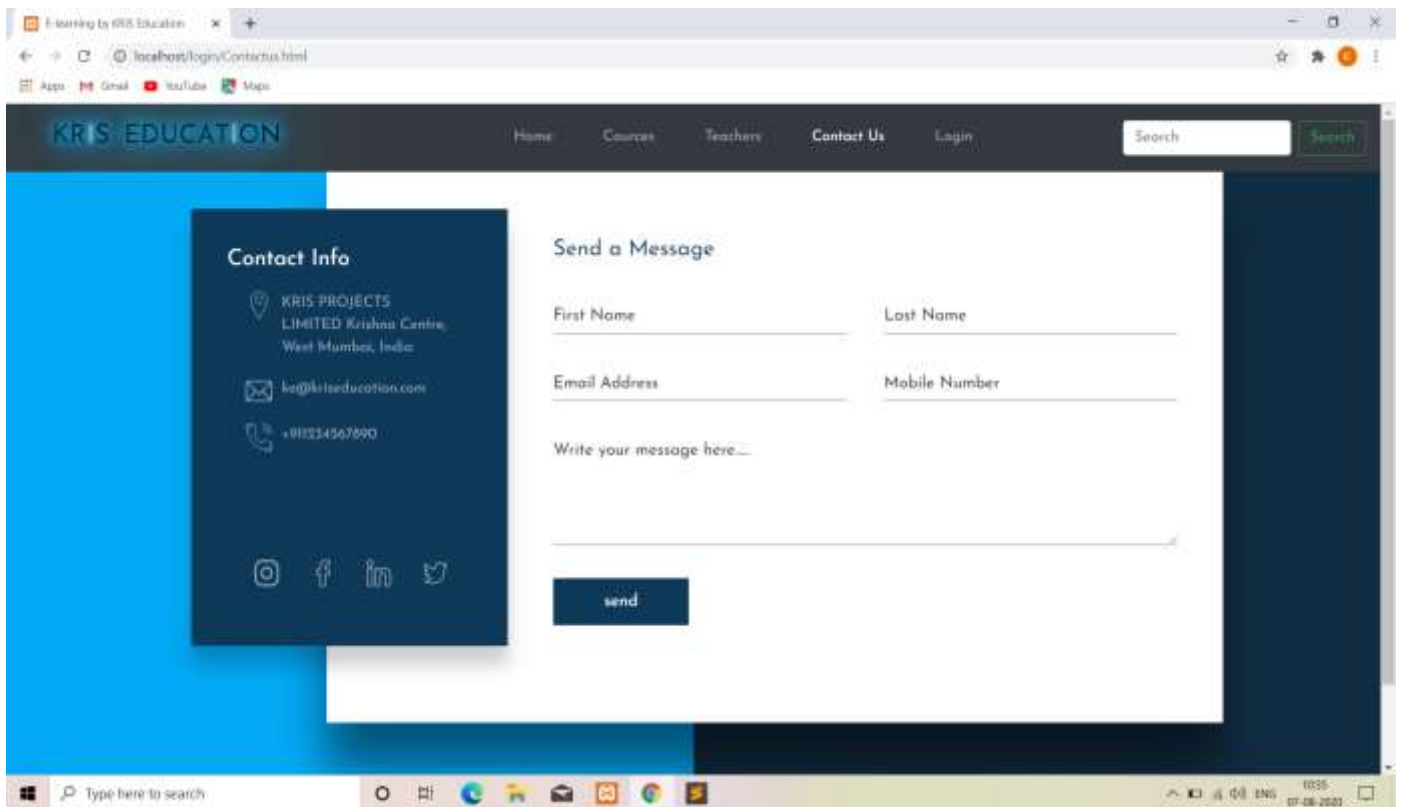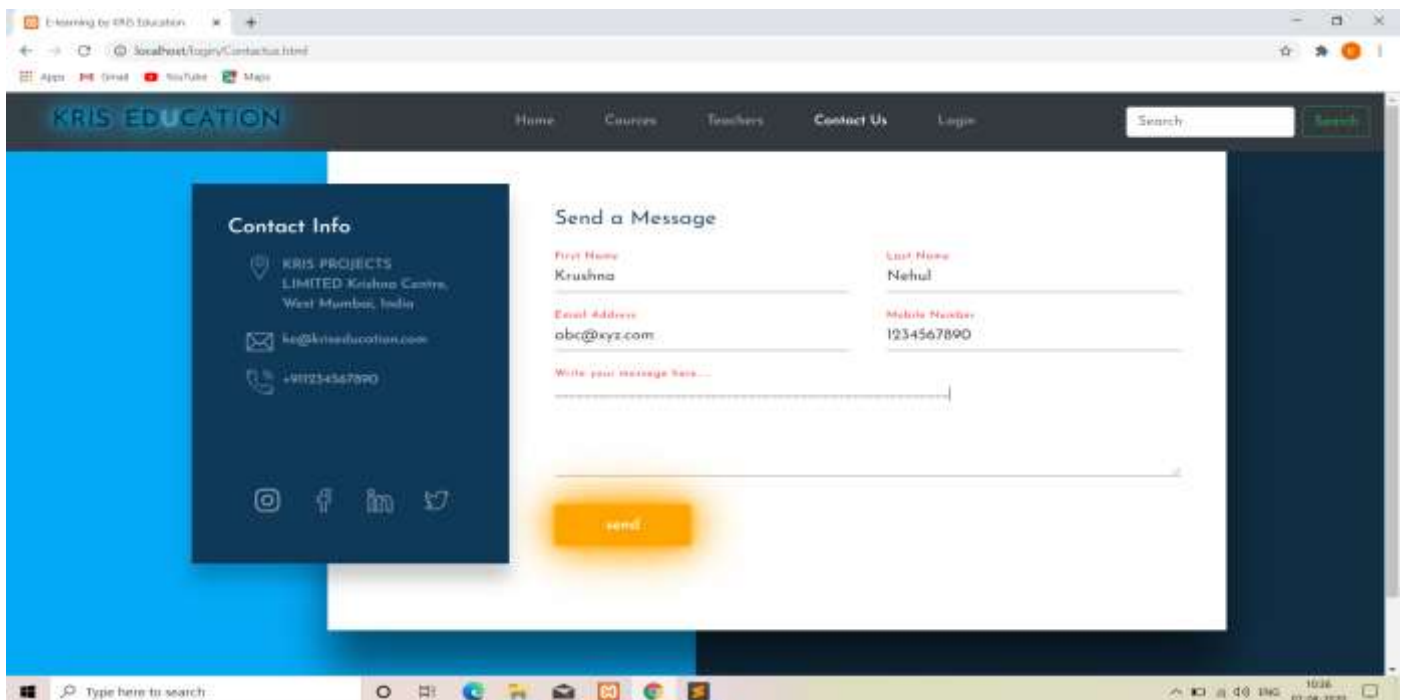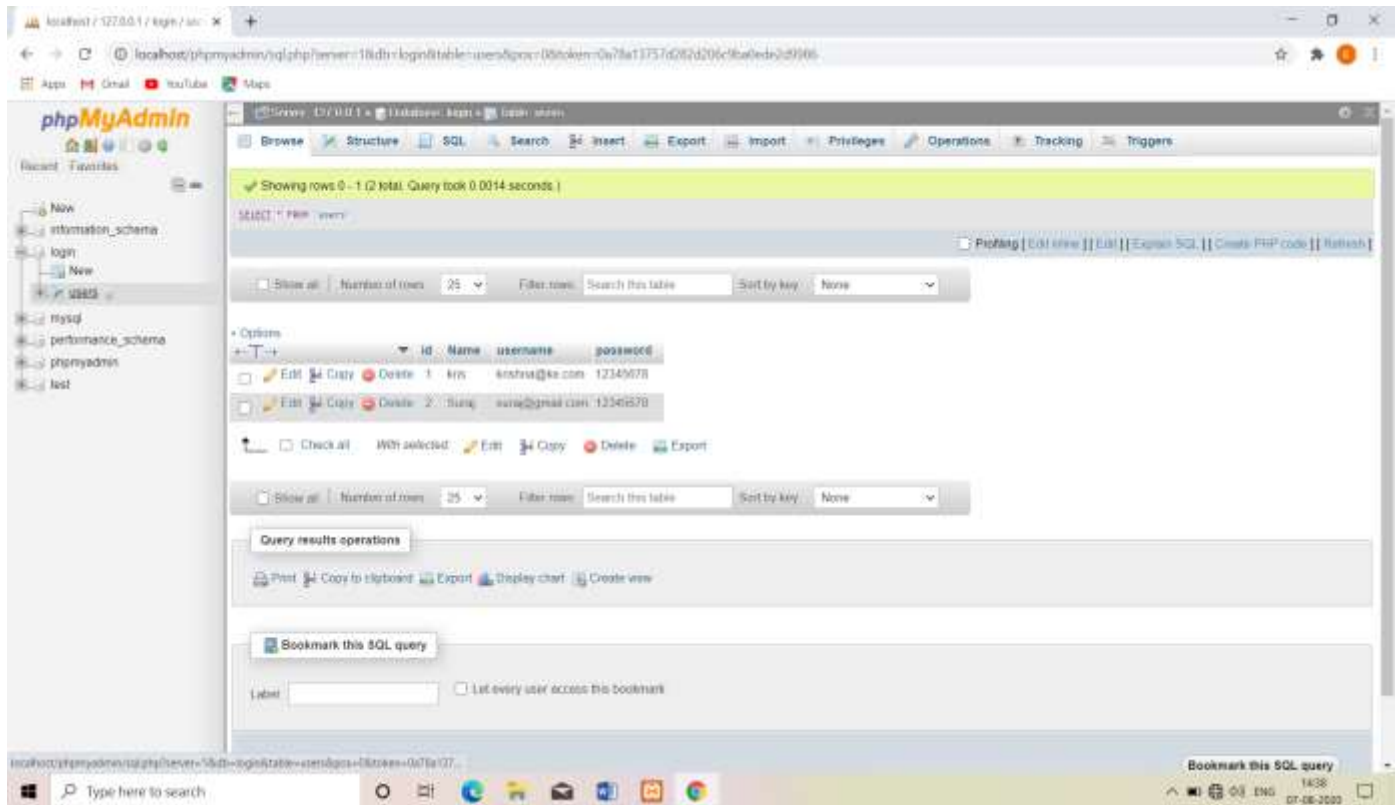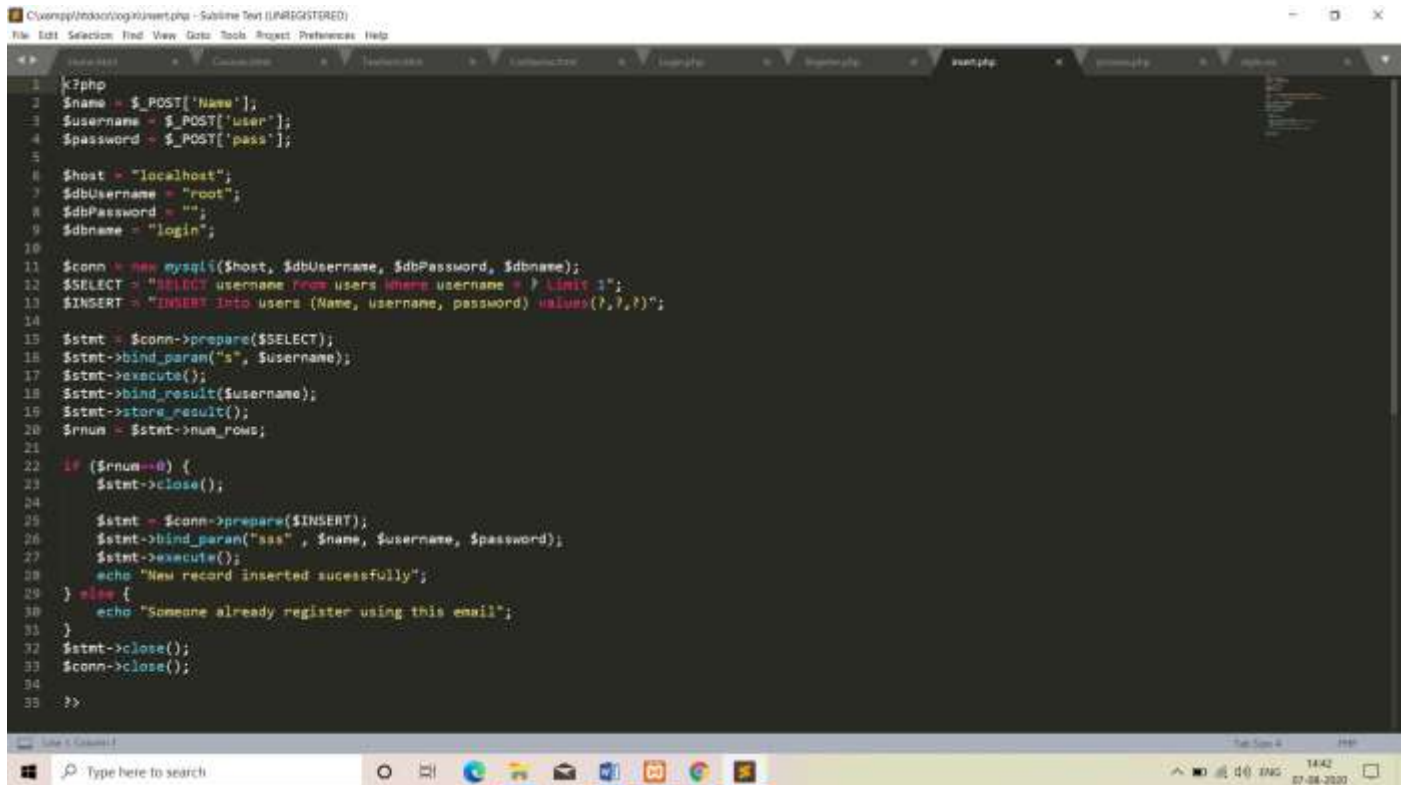Description: Here I created a database to store the data entered in the website. Here I created a Database named login and created 1 table inside of it users. Basically this is where we create the backend. In the table we create variable named ID with auto increment enabled.

Connecting database to the Website: For Login Page


```php
<?php
$username = $_POST['user'];
$password = $_POST['pass'];

mysql_connect("localhost","root","");
mysql_select_db("login");

$result = mysql_query("select * from users where username = '$username' and password = '$password' ") or die("Failed to
    query database " .mysql_error());
$row = mysql_fetch_array($result);
if ($row['username'] == $username && $row['password'] == $password){
    echo "Login Successful !!!! Welcome to KRIS EDUCATION ". $row['username'];

} else {
    echo "Failed to login";
}

?>
```

For Registration Page:


```php
<?php
$name = $_POST['Name'];
$username = $_POST['user'];
$password = $_POST['pass'];

$host = "localhost";
$dbUsername = "root";
$dbPassword = "";
$dbname = "login";

$conn = new mysqli($host, $dbUsername, $dbPassword, $dbname);
$SELECT = "SELECT username from users where username = ? Limit 1";
$INSERT = "INSERT into users (Name, username, password) values(?,?,?)";

$stmt = $conn->prepare($SELECT);
$stmt->bind_param("s", $username);
$stmt->execute();
$stmt->bind_result($username);
$stmt->store_result();
$rnum = $stmt->num_rows;

if ($rnum==0) {
    $stmt->close();

    $stmt = $conn->prepare($INSERT);
    $stmt->bind_param("sss" , $name, $username, $password);
    $stmt->execute();
    echo "New record inserted sucessfully";
} else {
    echo "Someone already register using this email";
}
$stmt->close();
$conn->close();

?>
```

Description: This is the code used to connect the backend and front of the complete website. The first image of code is the code where I started the connection between the database and the website. Whenever we have to add user to database through the website we first need both connected, therefore I have included that file in all the other files, for keeping the connection. The second is for login which checks and matches the value from the database. Third image code is new user registration, it stores the data entered by the user and stores it in the given database.

Responsive Website:
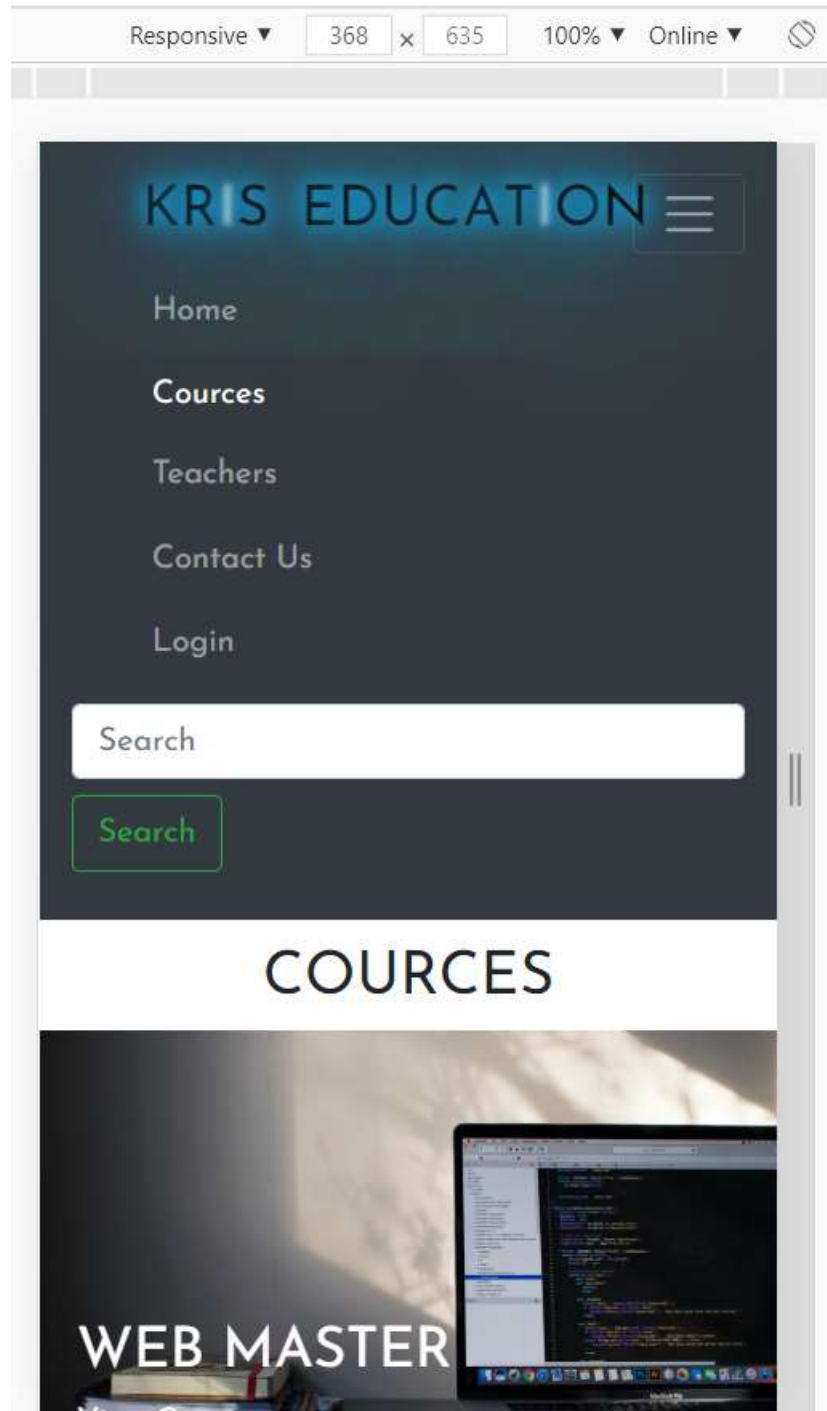
Description: You can see the complete website is completely responsive. In whatever device you open this site it adjust accordingly. I did this using the viewport function.

And finally the complete website is ready. The complete Educational Website has around 1500 lines of code from which I have include the code of backend in this report. The website has navigation bar, Icons plus we have successfully connected it to a database for storing the data entered by the user. And also one of the best things about the website is that it is a responsive website.

Chapter 6: Major system handling (servers and clients) and system handling procedures.

1. **DELL (stand-alone system)**

This system used as the client system in the network. This was used in project development of the project for coding, testing, designing. Backup of the software was stored in this system in case of power failure which causes the above systems failed to start.

• **Features:**

Processor 2.40 GHz, 8GB RAM, 1 TB HDD, Run on windows 7 OS, Operating system 64 bits

2. **HP (client and server)**

This system used as client and server in the network. This was used to making documentation of the project and also used as centralized database.

• **Features:**

Processor core i5, 8GB RAM, 1 TB HDD, Run on windows 10 OS, Operating system 64 bits

Chapter 7: Safety procedures followed:

As worked in software industry there was the less risk in that environment. Still we follow some safety procedures to avoid system damage and avoid data loss.

i   Turn off systems properly to avoid system failure
ii   Handling of industrial equipment with care.
iii   Setting up network connection after stabling the system performance to avoid network failure.
iv   Storing software backup and documents backup in case of central database failure.
v   Proper insertion of LAN cables with care to avoid cable damage.
vi   If there are some serious issues related to hardware like sparkling or something, don not touch the PC and get away from it and call a Hardware expert to look on the Case.
vii   Detailed care taken of small and sensitive parts of the Computer or any Accessories.
viii Constantly keep saving your data, in case of a power or some similar issue to that your pc may get shut down unexpectedly, and therefore your data may get lost/deleted so save.
ix   Proper handling of centralized database to avoid data inconsistency problems occurs from data concurrency.

Chapter 8: Particulars of Online Practical Experiences in industry.

WEB DEVELOPER:

Becoming a web developer, also known as a computer programmer, I was playing a key role in the design, installation, testing and mainly the backend of the website. The page of website we create are likely to help businesses be more efficient and provide a better service.

Based on my company's particular requirements, I might be responsible for writing and coding individual programs or providing an entirely new website resource. The specification I was work on was often come from IT analysts.

As a Web developer employed across virtually all industry sectors, from finance and retail to engineering, transport and public organizations, so the projects I work on can be highly varied.

Sometimes you may also use 'off the shelf' software. Requiring you to modify and integrate this into an existing network to meet the needs of the business.

As a website developer, your list of tasks can include:

- Reviewing current systems and analysing the work of those web pages.
- Presenting ideas for system improvements, including project proposals
- Working closely with analysts, designers and staff
- Producing detailed specifications and writing the program codes
- Testing the product in controlled, real situations before going live
- Preparation of training manuals for users.
- Maintaining the systems once they are up and running.

Chapter 9: Short report/description of the project introduction:

The website of Online Education Website is a very easy to use website for users, it can be used by anyone easily even the people who are not related to the website designing field. The Online Education Website is named as Kris Education and is validation based website. A user can login, Signup and add courses available on the website to the account. There are various courses, you can add to courses once you logged in. Then in the website I have inserted and header navbar common for every webpage. The website's front end is super attractive which displays a bunch of fonts and designs. Then the front end is connected to the Database to store the user entered data, Backend and front end are connected using PHP and MySqli. Overall a proper website is created, which is even responsive.

Document Conventions:

This document is prepared using Microsoft Word 2013 and has used the font type 'Times New Roman'. The fixed font size that has been used to type this document is 12pt with 1.5 line spacing. It has used the bold property to set the headings of the document.

Intended Audience and Reading Suggestions:

The intended audience of this document would be the client. This document would finally provide a clear idea about the system that is building.

Overall Description

Product Perspective:

The newly introduced system will provide an easy access to the system and it will contain user friendly functions with attractive interfaces. The system will give better options for the problem of handling large scale of physical file system, for the errors occurring in calculations and all the other required tasks that has been specified by the client. The final outcome of this project will increase the efficiency of almost all the tasks done at and Online Education Website in a much convenient manner.

User Classes and Characteristics:

- Sign Up (Select, Insert, Delete)
- Login (Select, Check)
- Add Courses

Operating Environment

Software Requirements:

- Windows 7 or above operating system
- PHP(My Admin)/MySQL Database/MS access

Hardware Requirements:

- Core i5 processor
- 4 GB RAM
- 5 GB of hard disk space

Design and Implementation Constraints:

- Website is accessible everywhere.
- Database is password protected.
- Should use less RAM and processing power.
- Each user should have individual ID, email and password.
- Each product which can be added to the cart has a different auto Incremented ID
- Only administrator can access the whole system.

User Documentation:

As a part of the Website itself user documentation is provided to the customers who give an overview of the system. It will include the full description about the product and complete orderly followed steps for surfing the Website. The users will get the opportunity to use the website without having any trouble.

Assumptions and Dependencies:

- Admin with the Username and Password only can login to the software system.
- Users must log in to the system to access any record.
- It is assumed that the admin using software must be an enough trained staff to take care of the Website.
- User will sign up / login before adding any courses to the account.

External Interface Requirements:

User Interfaces:

There will be many user interfaces according to the user login.

1. User login will have interface for:
   i   Username
   ii Password
   iii Name

2. Dashboard window will have user interface for:
   i   Home

    ii   Courses
    iii Teachers
    iv Contact Us
    v   Login

3. Login will have interface to:

    i   Email
    ii   Password
    iii Submit Button
    iv Not an account link

4. Sign Up will have interface to:
    i   Name
    ii   Email
    iii Password
    iv Submit Button

5. Courses will have user interface for:
    i   Different courses for user

6. Teachers have interface to:
    i   Professional teachers profile

7. Contact Us will have interface to:
    i   Contact details of company
    ii   Social media account links
    iii Feedback form

Hardware Interfaces:

Laptop/Desktop PC:

    i   Core i5 processor
    ii   4 GB RAM
    iii 500 GB HDD

Purpose of this pc is to provide the smoothness to working of software. The software should be able to handle heavy load of database and longer time of working. If software stuck or lags, the whole working will cause lot of time and money waste.

System Features:

- Records will be safe as only admin with username and password can login to software and access the record.
- Easy to use interface.
- Can access any record from the whole database.
- Get report of all the records or the records with particular specifications easily.

Chapter 10: Special/challenging experiences encountered during training

Firstly, as we gone to the industry. It was our special experiences to work with industrial environment also adapting to that environment wasn't easy for us as we moved there from college environment. Development of communication skills is challenging experience for us. It was totally different type of communication in industry than communication occurred in college. Making the screen design user friendly was the most challenging experience for us. We realized and learned that the designing criteria and user-friendly criteria is different aspects.so working for customer's satisfaction was our challenging experience.

Working with centralized database was special experience for us. Also, we face some problems while working within network such as coding errors, database connection failure, configuration problems with the system. So, it was our challenging experience to face that problem and avoid data loss from such occurred problems. Even while connecting the backend and front end of the website we face many major problems, such as data was not getting inserted in the database, data getting inserted in the wrong column or wrong row etc.

Chapter 11: References/Bibliography:

- BrandTechnology.in/about
- https://W3Schools.in/