Pune Institute of Computer Technology
Dhankawadi, Pune

A MINI-PROJECT REPORT
(Updated)
ON

EXAMINATION CELL AUTOMATION SYSTEM

SUBMITTED TOWARDS THE
PARTIAL FULFILLMENT OF THE REQUIREMENTS OF

THIRD YEAR SEMESTER II OF ENGINEERING
(Computer Engineering)
BY

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DEPARTMENT OF COMPUTER ENGINEERING
Academic Year 2019-20

DEPARTMENT OF COMPUTER ENGINEERING

Pune Institute of Computer Technology

Dhankawadi, Pune-43

CERTIFICATE

This is to certify that the mini-project report entitled

EXAMINATION CELL AUTOMATION SYSTEM

Submitted by

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is a bonafide work carried out by Students under the guidance of **Prof. P.A. Jain** and it is submitted towards the partial fulfillment of the requirement of Third Year Computer Engineering Semester II of Savitribai Phule Pune University.

Date:
Place:

Prof. P.A. Jain
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1.1 Project Idea

The current University Exam Cell Activities are done on paper. This leads to tedious work for the students and for the department responsible for carrying out all the examination activities. Developing an online solution will lead to quicker, efficient,simpler and error free activities and will overcome the drawbacks of the manual paper based system.

This exam cell automation system is developed to simplify the examination time table setting for the respective faculty and for the students to get their hall tickets at their ease. The purpose is to computerize the traditional way in which the students needed to go to the respective office in order to get their hall ticket. This saves time for the students and the exam cell department can spend their time more effectively. (Updated) The developed system is very modular. More branches such as Mechanical, can be added with ease. Subjects can also be added as per the requirements of the administrator.

1.2 Functional Requirements

The respective faculties (or admins) should be able to easily change the subjects and the dates for the exams of the students. An admin can register using a special link that is provided by the university which the students cannot access. An admin can login the system easily using the website's login page. The students should be easily able to register, login and get their hall tickets when they're ready to be printed. There's also a site map which can be used to navigate the website. (Updated) The timetable will be displayed on the main page when the administrator has finalized it.

2 Design

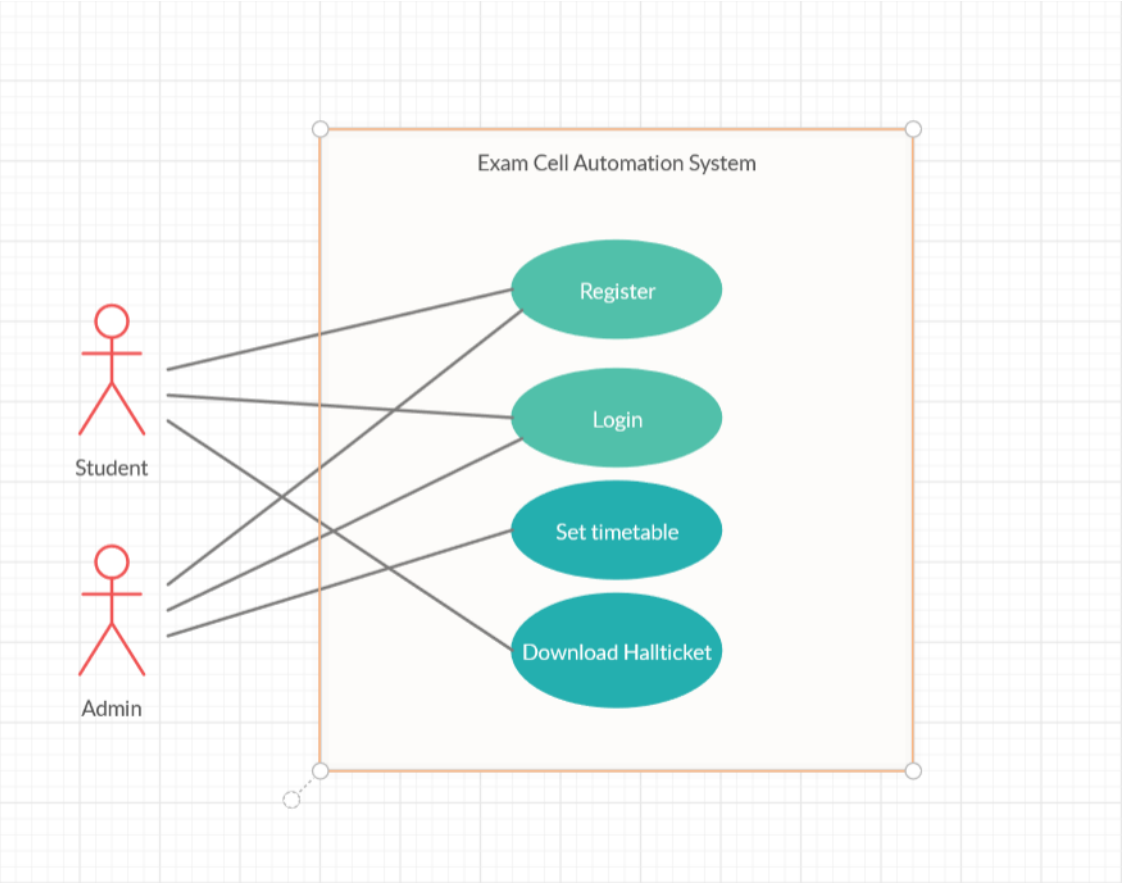

Figure 1: Use Case Diagram for the system

3 Source Code and Screenshots

3.1 Screenshots

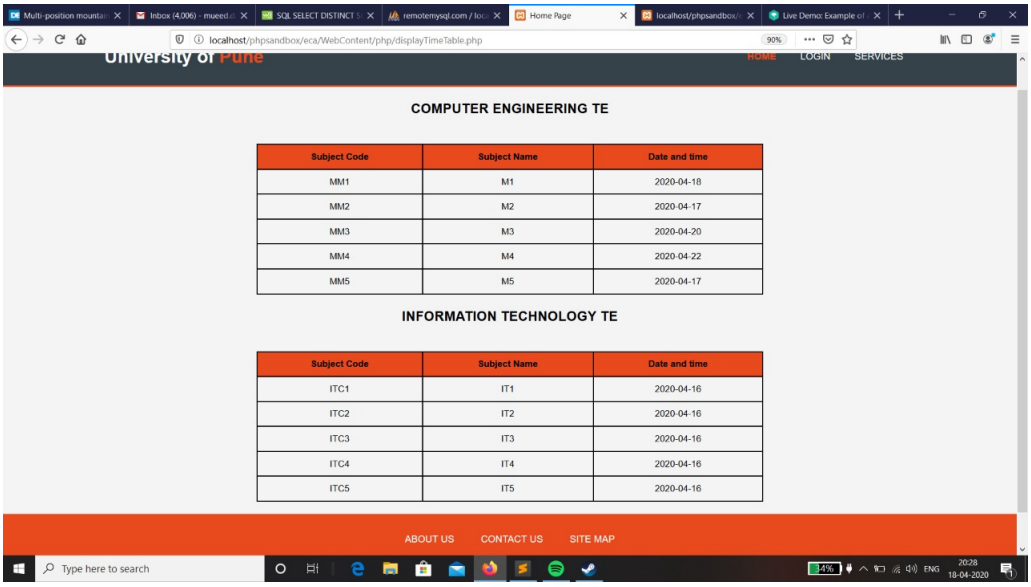

Figure 2: The timetable on the main Page (Updated)

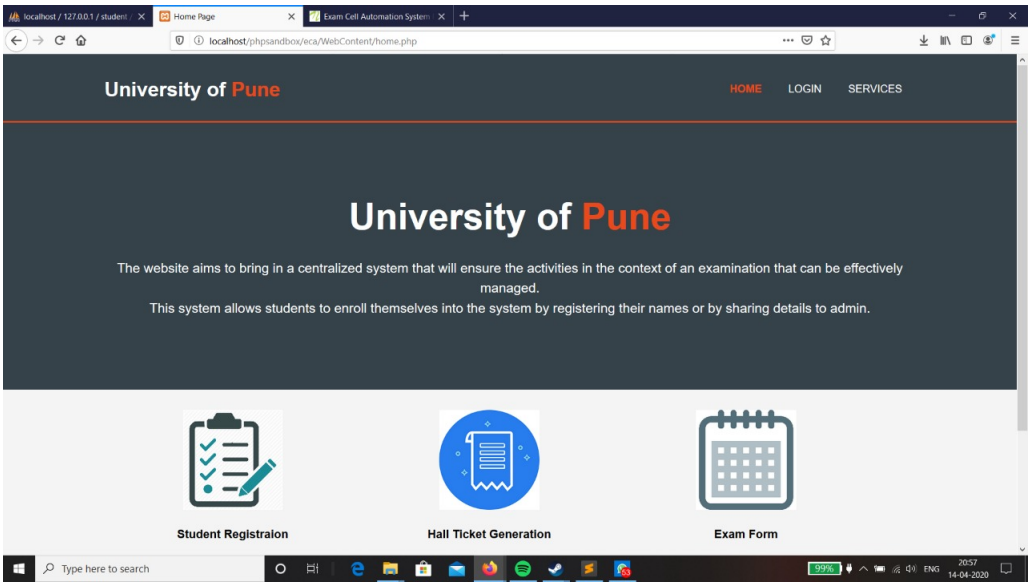

Figure 3: The homepage of the System

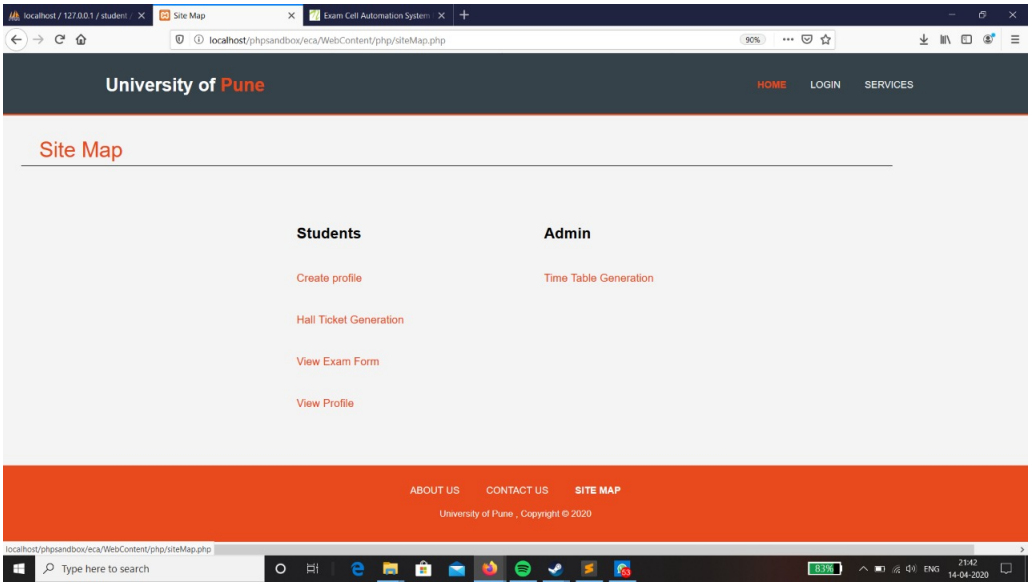

Figure 4: The site-map for the System

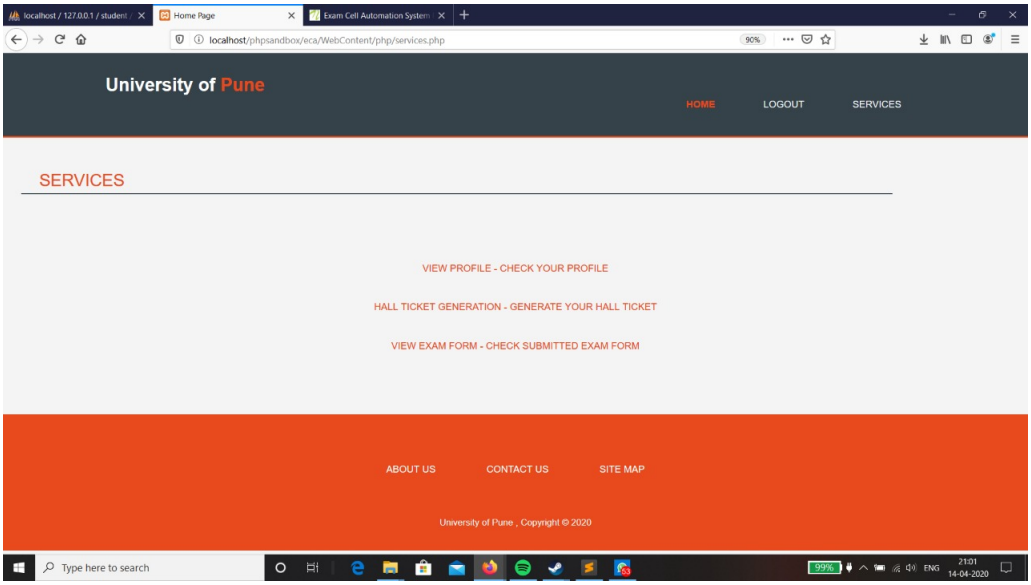

Figure 5: Services present in the System

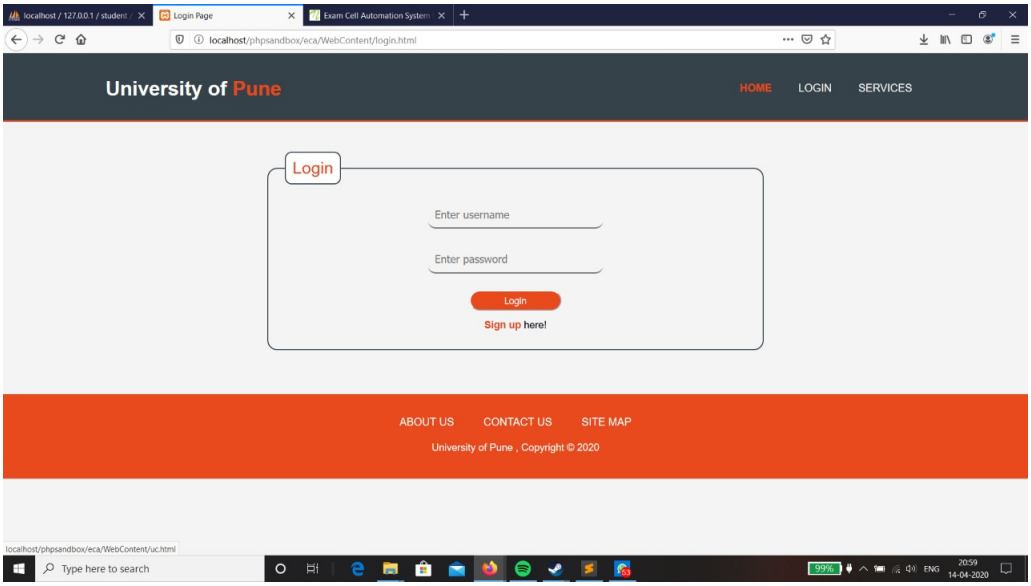

Figure 6: Login page of the System

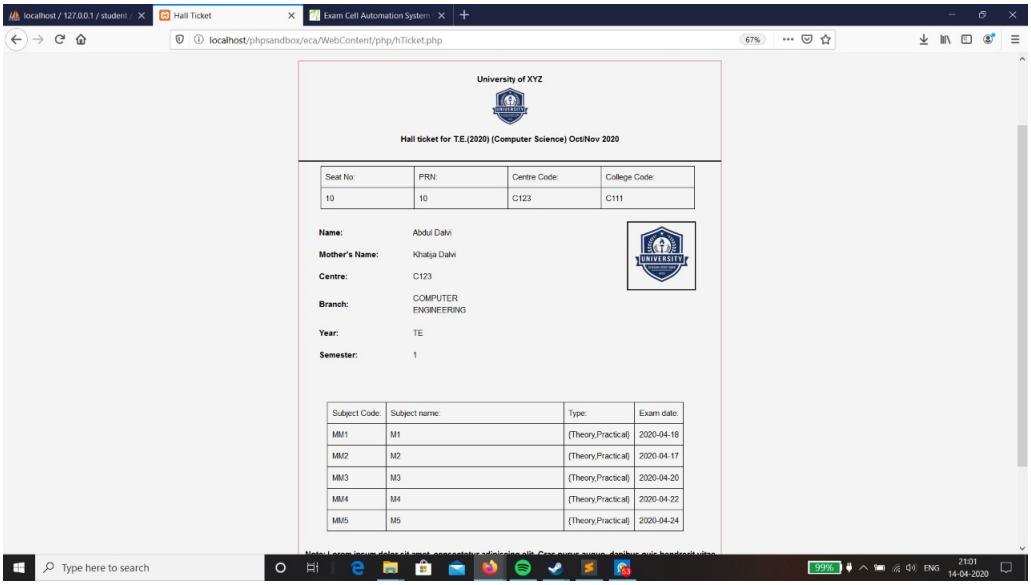

Figure 7: Generated example hallticket

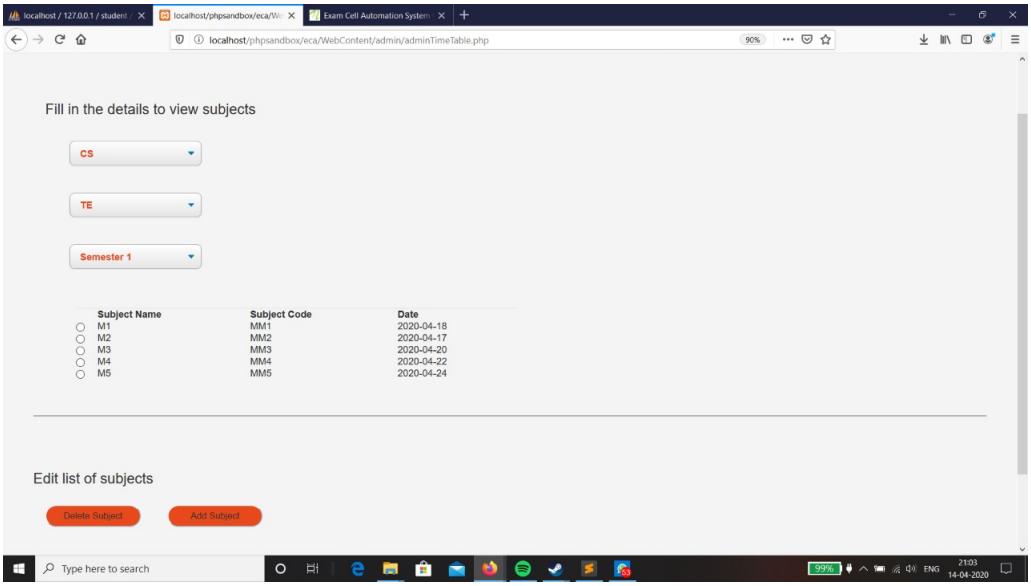

Figure 8: Timetable setting feature for the admin

3.2 Source Code

3.2.1 Hall Ticket

```php
    <?php
$servername = "www.remotemysql.com:3306";
$username = "0xCWbnBOpR";
$password = "jOW2ygCCXS";
$db = "0xCWbnBOpR";

$conn = new mysqli($servername, $username, $password,$db);
$query = "SELECT * FROM Temp LIMIT 1";
$result=$conn->query($query);
$entrybook=$result->fetch_object();
?>
```

Figure 9: Code for adding new subjects

3.2.2 Admin subject page

```php
<?php

$servername = "www.remotemysql.com:3306";
$username = "0xCWbnBOpR";
$password = "jOW2ygCCXS";
$db = "0xCWbnBOpR";
$connection = new mysqli($servername, $username, $password,$db);
$query3="INSERT INTO `subject_data` (`branch`, `year`, `semester`,
`subject_name`, `subject_code`,`date_time`)
VALUES ('".$_POST['BRANCH']."', '".$_POST['YEAR']."', '".$_POST['SEM']."',
'".$_POST['SUBN']."', '".$_POST['SUBC']."','".$_POST['DAT']."')
";
$res3=$connection->query($query3);
$query2="SELECT * FROM subject_data WHERE `branch` = '".$_POST['BRANCH']."'
and `year` = '".$_POST['YEAR']."' and `semester` = '".$_POST['SEM']."' ;";

$res2=$connection->query($query2);
$names=array();
if($res2)
{
    while($t=$res2->fetch_object())
    {
        $names[]=$t;
    }
    echo json_encode($names);
}
$connection->close();
?>
```

Figure 10: Code for adding new subjects

```php
<?php

$servername = "www.remotemysql.com:3306";
$username = "0xCWbnBOpR";
$password = "jOW2ygCCXS";
$db = "0xCWbnBOpR";
$connection = new mysqli($servername, $username, $password,$db);
$query2="SELECT * FROM subject_data WHERE `branch` = '".$_POST['BRANCH']."'
and `year` = '".$_POST['YEA']."' and `semester` = '".$_POST['SEM']."' ;";

$res2=$connection->query($query2);
$names=array();
if($res2)
{
    while($t=$res2->fetch_object())
    {
        $names[]=$t;
    }
    echo json_encode($names);
}
$connection->close();
?>
```

Figure 11: Code for retrieving the subjects from database

```php
<?php

$servername = "www.remotemysql.com:3306";
$username = "0xCWbnBOpR";
$password = "jOW2ygCCXS";
$db = "0xCWbnBOpR";

$connection = new mysqli($servername, $username, $password,$db);
$query3="DELETE FROM subject_data WHERE `subject_code` = '".$_POST['SUBC']."' ;";
$res3=$connection->query($query3);
$query2="SELECT * FROM subject_data WHERE `branch` = '".$_POST['BRANCH']."' and
`year` = '".$_POST['YEA']."' and `semester` = '".$_POST['SEM']."' ;";

$res2=$connection->query($query2);
$names=array();
if($res2)
{
    while($t=$res2->fetch_object())
    {
        $names[]=$t;
    }
    echo json_encode($names);
}
$connection->close();
?>
```

Figure 12: Code for deleting the subjects from database

```php
<?php
    include 'header.php';
    include 'config.php';
    include 'db.php';
    if(!isset($_SESSION))
    {
        session_start();

    }

    else if(!isset($_SESSION['username']))
    {
        header("Location: http://localhost/phpsandbox/eca/WebContent/php/loginFirst.php");
    }

        $username=$_SESSION['username'] ;
        $query="select * from student_data where email='$username'";
        $result = $conn->query($query);
        $row = $result->fetch_assoc();
?>

 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
<script>

    document.title="Profile Page";

    $(document).ready(function(){
        $("button").click(function(){
            window.location.replace("http://localhost/phpsandbox/eca/WebContent/home.php");
        });
});
```

Figure 13: Code for viewing profile of student

4 Deployment details

To deploy this project we keep a copy of the project in the server folder which can be accessed by typing the localhost path of the project folder. Enlisted below are the steps involved to deploy Exam Cell Automation System:
1. Move the project folder in the htdocs folder present in the xampp directory
2. Start the apache module from the xampp control panel
3. Connect to MySQL database using xampp control panel
4. Run the website
5.Go to the webpage using the following address

http://localhost/yourFolder/yourWebpage.extension

5 Testing

No.	Input	Output	Result
1.	Existing user attempts to register	Account already exists	Successful
2.	Non-registered student tries to sign in	User doesn't exist	Successful
3.	User enters incorrect credentials	User asked to re-enter credentials	Successful
4.	Admin adds subject	Successfully added and list of subjects is displayed	Successful
5.	Student tries to view generated hallticket	Successfully displays the respective hallticket	Successful

Table 1: Test cases

6 Future Scope and Conclusion

6.1 Conclusion

The deployment of this project into the real world will reduce the workload of the students and the respective faculties. A web based interface for generating the hall tickets for the students is created. Exam cell Staff can easily create time tables for the students. This also avoid misinterpretation of information. This project eliminates the drawbacks of the manual paper based system and is quicker, efficient,simpler and error free.

6.2 Future Scope

This system can be developed to properly support mobile devices. The functionality of allocating the classrooms for the students can be added to this system in order to make it into a full fledged project which can be used in the real world.

7 Work Done

Sr No.	Author	Work Done
1.	31201	Homepage, Login, Student Registration, About, Contact us, Integration, view profile, view exam form, database conceptualization
2.	31204	Hall Ticket Webpage, Admin subject setting page, Admin Registration project report
3.	31209	Exam Form, services, sitemap, view exam form, project report, database conceptualization

Table 2: Work Done

Technologies used: HTML5, JavaScript, CSS, JQuery, PHP, MySQL

References

[1] https://www.w3schools.com/html/

[2] https://www.w3schools.com/sql/default.asp

[3] https://developer.mozilla.org/en-US/docs/Web/CSS

[4] https://www.w3schools.com/jquery/default.asp

[5] https://stackoverflow.com/

[6] https://www.tutorialspoint.com/php/index.htm

[7] https://www.tutorialspoint.com/jquery/index.htm

[8] https://developer.mozilla.org/en-US/docs/Web/HTML/Reference