Experiment Name: Admission Processing System.

Objective: The objective of this experiment is to create an admission processing system.

Theory:

Software Development Life Cycle (SDLC) is a framework that describes the activities performed at each stage of a software development project. The steps given below describe implementation of proposed system:

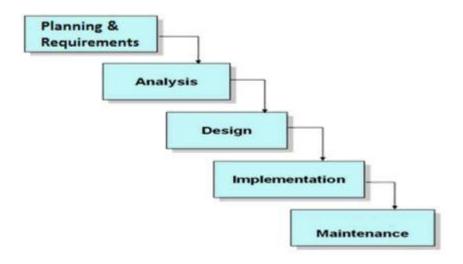


Fig: System Development Life Cycle

Planning & Requirements:

The project plan was prepared by the Project Manager to form the basis of the actual project work plan. This formed the baseline against the project being tracked and controlled

Equipment/development tools

- -a PC(Any Os installed) or MAC
- -XAMPP server installed
- -Notepad++
- -HTML,CSS,Javascipt
- -Server language:PHP
- -Database system: MySQL

Analysis:

Once the project was initiated, requirements gathering and analysis was the first phase in software development life cycle and a process of reviewing business's processes to determine the business needs and functional requirements that a system must meet. During this phase, requirements were analyzed to identify the application flow, the business logic implementation, and their context and usage pattern. The analysis process started with the study and analysis of the current application.

Design:

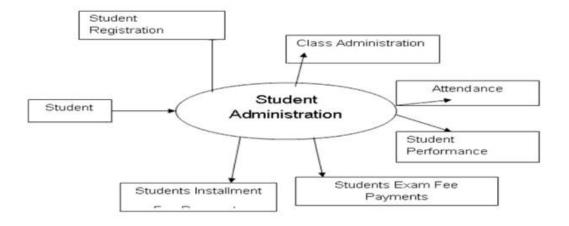


Fig: E-R diagram of admission prcessing system.

Implementation:

Procedure:

- 1. Turn on xampp and start Apache and MySQL
- 2. Go to C:\Xampp\htdocs, create a folder named admission_processing and write the codes with Notepad++
- 3. Go to a browser and type localhost/phpmyadmin
- 4. Setup database
- 5. Go to a browser and type localhost/admission_processing
- 6. Use the created system.

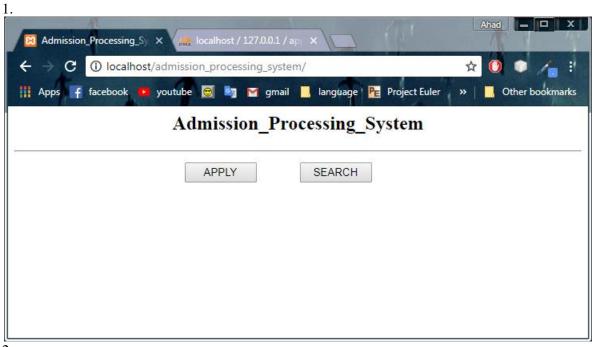
Sample code:

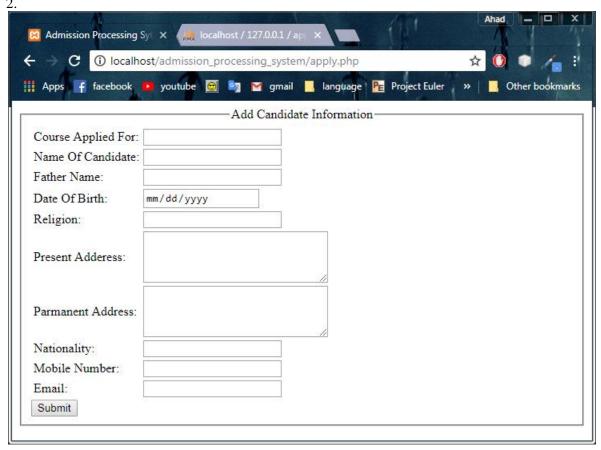
```
For searching:

<!php include "db.php" ?>
<a href="https://docs.org/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.com/line.co
```

```
Email:
       <input type="email" name="email" required >
     Date Of Birth:
       <input type="date" name="date" required>
     <button type="submit" name="submit">Search</button>
  </fieldset>
 </form>
</body>
</html>
<?php
if(isset($_POST["submit"]))
 $name = $_POST["ca_Name"];
 $email = $_POST["email"];
 $date = $_POST["date"];
 $query = "select * from admission where candidate_name = '$name' and email = '$email' and date =
'$date'";
 $result = mysqli_query($connection, $query);
 if(!$result){
  die("Query Failed". mysqli_error());
 $row = mysqli_fetch_assoc($result);
 echo "
     <b>Course Name</b>
       <b>".$row['cName']."</b>
     <b>Candidate Name</b>
       <b>".$row['candidate_name']."</b>
     <b>Father Name
       <b>".$row['fName']."</b>
     <b>Date Of Birth</b>
       <b>".$row['date']."</b>
     <b>Religion</b>
       <b>".$row['religion']."</b>
     <b>Present Address</b>
```

```
<b>".$row['present']."</b>
    <b>Parmanent Address
     <b>".$row['parmanent']."</b>
    <b>Nationality
     <b>".$row['nationality']."</b>
    <b>Mobile Number
     <b>".$row['mobile_no']."</b>
    <b>Email
     <b>".$row['email']."</b>
    ";
}
?>
For database connection:
<?php
 $connection = mysqli_connect("localhost", "root", "", "application");
 if(!$connection){
  die("Connection failed");
?>
```





f (3) Faceboo Admission Processing Sy X C (i) localhost/admission_processing_system/search.php youtube 📵 🥞 🎽 gmail 📙 language 阳 Project Euler 💨 🔻 Apps facebook Show Candidate Information Candidate Name: Email: Date Of Birth: mm/dd/yyyy Search Course Name CSE Candidate Name Ahad Emu Father Name Md Aminul Islam 1995-03-11 Date Of Birth Religion Islam 40 No. Mokroba Road, Present Address Nagar Khanpur, Narayanganj 40 No. Mokroba Road, Parmanent Address Nagar Khanpur, Narayanganj Nationality Bangladeshi 019*****63 Mobile Number Email ahademu99@gmail.com

Maintenance:

- 1. A customer/user support structure and any other necessary operational support processes should be in place.
- 2. Any planned changes to the system or software should be scheduled, communicated, and documented.
- 3. Continuous security penetration testing is conducted on the system or software throughout its life cycle at regularly scheduled intervals.

Mandatory security testing is conducted when any major configuration or architecture change is made

Experiment Name: Write a program to make Student Information software with the help of database

Theory:

Software Development Life Cycle (SDLC) is a framework that describes the activities performed at each stage of a software development project . The steps given below describe implementation of proposed system:

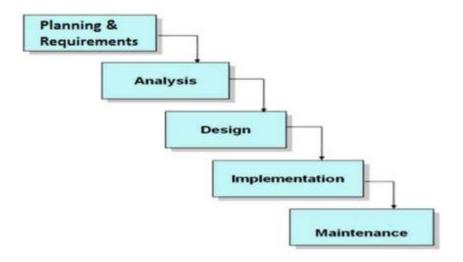


Fig: System Development Life Cycle

Planning & Requirements:

The user of this module is students and parents. They can view or print the student report card information. to access this module they must enter key in student ID.

Equipment/development tools

- -a PC(Any Os installed) or MAC
- -XAMPP server installed
- -Notepad++
- -HTML, CSS, Javascipt
- -Server language:PHP
- -Database system: MySQL

Analysis:

The system is going to be known as the Student Information Management System for secondary school. The system is about the student management. The main reason of developing the system is to overcome the problems that are faced using manual way. The groups of people that are going to use the system are the clerk, Principal, teachers and parent.

Data retrieval, distribution, usage, maintenance, and storage are the important components of the information management. Accurate information, updated, and

Reliable to achieve when needed is as critical to make an effective decision.

Design:

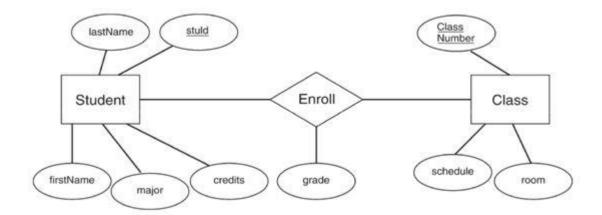


Fig: E-R diagram of student information system

Implementation:

Procedure:

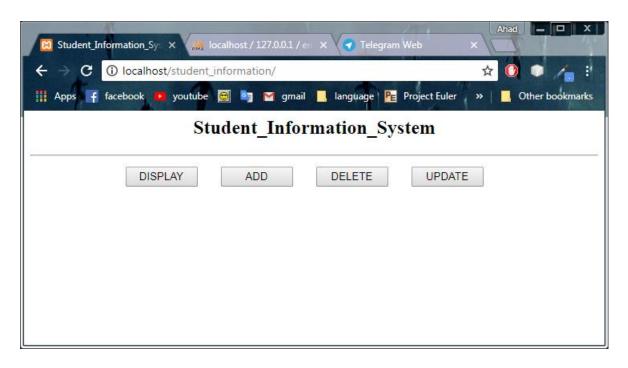
- 1. Turn on xampp and start Apache and MySQL
- 2. Go to C:\Xampp\htdocs, create a folder named student_information and write the codes with Notepad++
- 3. Go to a browser and type localhost/phpmyadmin
- 4. Setup database
- 5. Go to a browser and type localhost/ student_information
- 6. Use the created system.

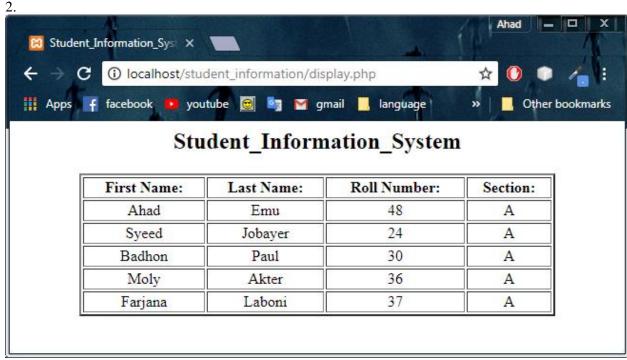
Sample code:

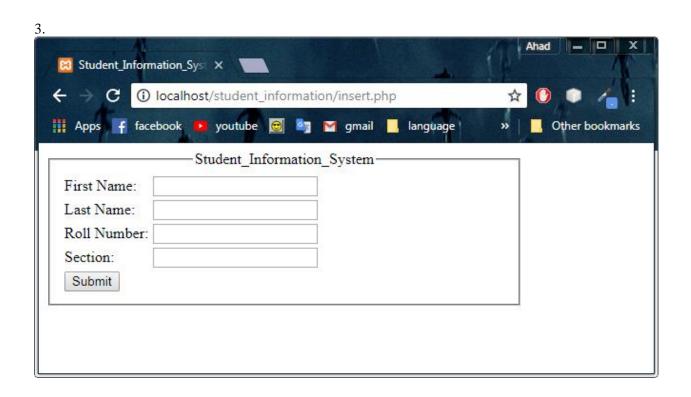
```
For Deletion:
```

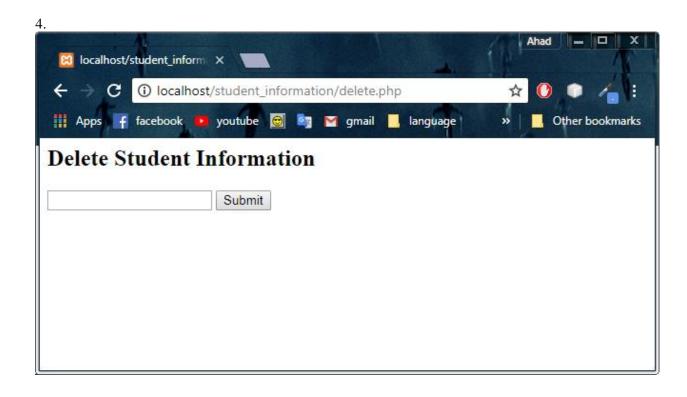
```
<?php include "db.php" ?>
<?php
if(isset($_POST["submit"])){
  $roll = $_POST["search"];
  $query = "DELETE FROM `student_information` where roll=$roll";
  $result = mysqli_query($connection, $query);
  if(!$result){
    die("Query Failed". mysqli_error());
  }
?>
<html>
<head>
  <title></title>
</head>
</body>
  <h2>Delete Student Information</h2>
  <form action="delete.php" method="post">
```

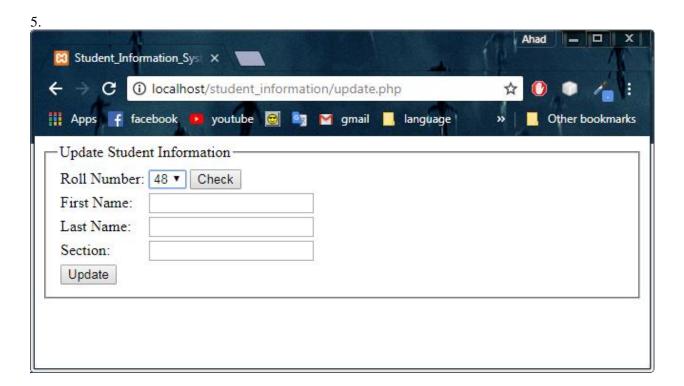
1











Maintenance:

- A user support structure and any other necessary operational support processes should be in place.
- Any planned changes to the system or software should be scheduled, communicated, and documented.
- Continuous security penetration testing is conducted on the system or software throughout its life cycle at regularly scheduled intervals.
- Mandatory security testing is conducted when any major configuration or architecture change is made.

Experiment Name: Write a program in make a **Employee informationSystem** software with the help of database.

Objective: To write a program in manage employee information system to store information in database then display it.

Planning & Requirements:

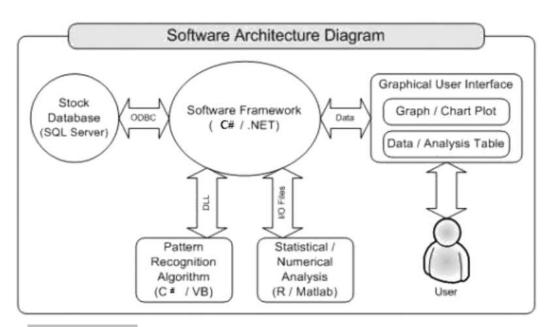
Functional requirements:

- 1. User post employee information.
- 2. User put information in user form.
- 3. Store the information in database
- 4. Display the information in data grid view.

Equipment/development tools

- 5. -a PC(Any Os installed) or MAC
- 6. -XAMPP server installed
- 7. -Notepad++
- 8. -HTML,CSS,Javascipt
- 9. -Server language:PHP
- 10. -Database system: MySQL

Design:



Implementation:

Procedure:

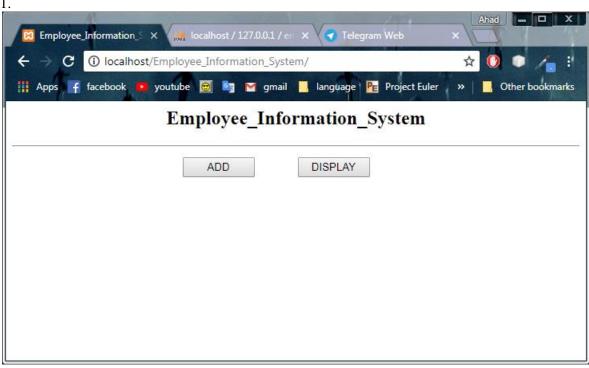
- 1. Turn on xampp and start Apache and MySQL
- 2. Go to C:\Xampp\htdocs, create a folder named employee_information and write the codes with Notepad++
- 3. Go to a browser and type localhost/phpmyadmin
- 4. Setup database
- 5. Go to a browser and type localhost/employee_information
- 6. Use the created system.

Sample code:

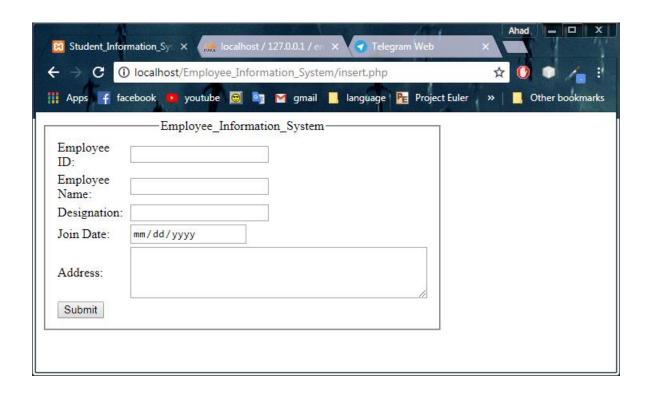
For displaying:

<?php include "db.php" ?>

```
<?php
$query = "select * from employee_information Order by employee_id";
$result = mysqli_query($connection, $query);
if(!$result){
  die("Query Failed". mysqli_error());
?>
<html>
<head>
 <title>Employee_Information_System</title>
</head>
<body>
 <h2 align="center">Employee_Information_System</h2>
 Employee ID:
     Employee Name:
     Designation:
     Join Date:
     Address:
   <?php
   while($row = mysqli_fetch_assoc($result)){
 ?>
   <?php echo $row['employee_id']; ?>
     <?php echo $row['employee name']; ?>
     <?php echo $row['designation']; ?>
     <?php echo$row['join_date']; ?>
     <?php echo$row['address']; ?>
   <?php
   }
  ?>
  </body>
</html>
For database connection:
<?php
 $connection = mysqli_connect("localhost", "root", "", "employee");
 if(!$connection){
   die("Connection failed");
?>
```



2





Verification & Validation:

- 1. Requirements of all needs of user are full filled.
- 2. Implementation are tested.
- 3. Final system are tested.
- 4. Maintainece for further errors and development are tested.

Maintenance:

As requrements evolve and bug reports come in from the field

- prioritize changes
- make changes (a kind of mini-s.d.p.)
- validate changes
 - o new test cases
- validate that change does not break previously working code
 - regression testing

Experiment Name: Write a program to make Result **Processing System** software with the help of database.

Objective: To write a program to make a result processing system and store result in database then display it.

Requirements:

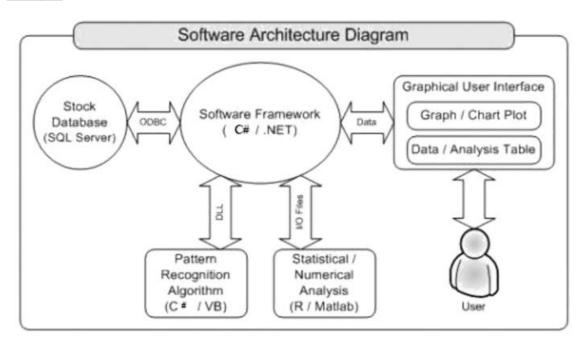
Functional requirements:

- 1. User post student information.
- 2. User post student marks only.
- 3. Result of each marks will converted into grades.
- 4. Give a total CGPA.
- 5. Give a total CGPA grade.

Equipment/development tools

- -a PC(Any Os installed) or MAC
- -XAMPP server installed
- -Notepad++
- -HTML,CSS,Javascipt
- -Server language:PHP
- -Database system: MySQL

Design:



Implementation:

Procedure:

- 7. Turn on xampp and start Apache and MySQL
- 8. Go to C:\Xampp\htdocs, create a folder named result_processing and write the codes with Notepad++

- 9. Go to a browser and type localhost/phpmyadmin
- 10. Setup database
- 11. Go to a browser and type localhost/result_processing
- 12. Use the created system.

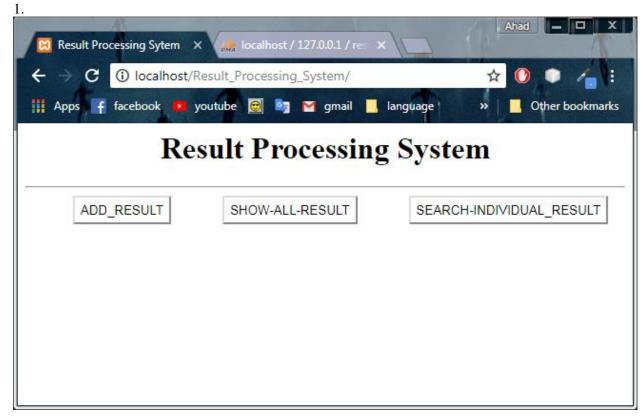
Sample code:

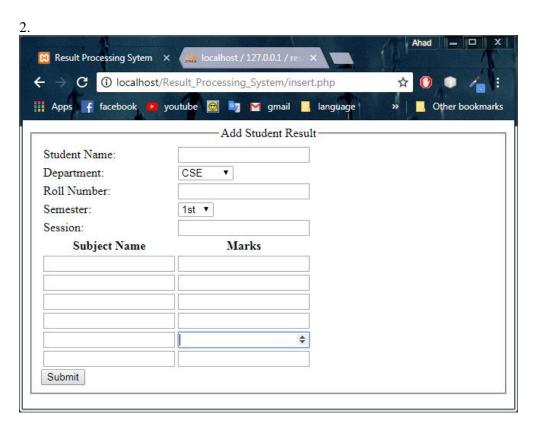
```
For display:
<?php include "db.php" ?>
<?php
$query = "select * from Student_Result";
$result = mysqli query($connection, $query);
if(!$result){
 die("Query Failed". mysqli_error());
?>
<html>
<head>
 <title>Result Processing Sytem</title>
</head>
<body>
 <h2 align="center">Result Processing Sytem</h2>
 Name
    Department Name
    Roll Number
    Semester
    Session
    First Sub
    Second Sub
    Third_sub
    Fourth_sub
    Fifth_sub
    Sixth sub
    CGPA
   <?php
   while($row = mysqli_fetch_assoc($result)){
 ?>
   <?php echo $row['Name']; ?>
    <?php echo $row['Department_Name']; ?>
    <?php echo $row['Roll']; ?>
    <?php echo$row['Semester']; ?>
    <?php echo $row['Session']; ?>
    <?php echo $row['1st_Subject']; ?>
    <?php echo $row['2nd_Subject']; ?>
    <?php echo$row['3rd_Subject']; ?>
    <?php echo $row['4th_Subject']; ?>
    <?php echo $row['5th_Subject']; ?>
    <?php echo $row['6th Subject']; ?>
```

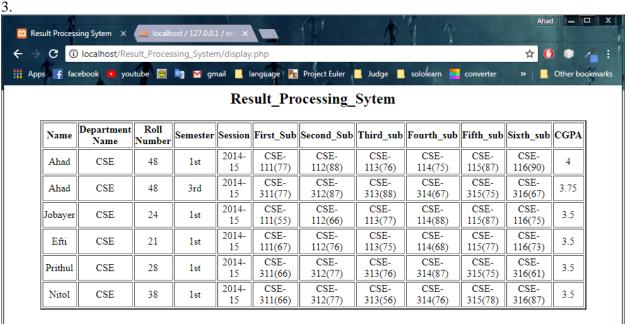
For Database connection:

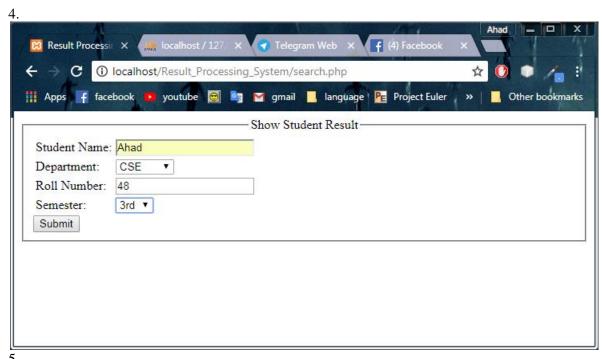
```
<?php
    $connection = mysqli_connect("localhost", "root", "", "result");
    if(!$connection){
        die("Connection failed");
    }
?>
```

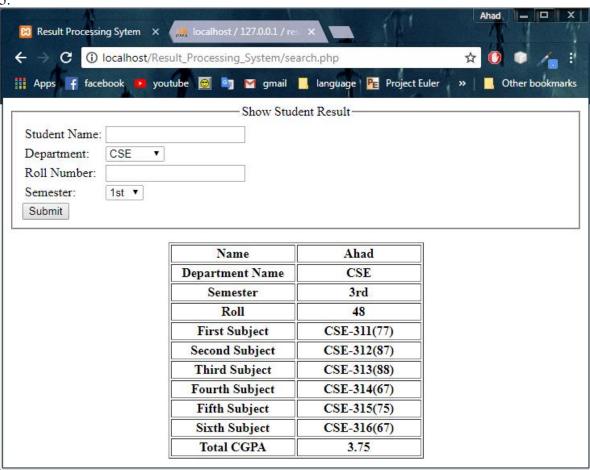
System snapshots:











Verification & Validation:

- 1. Requirements of all needs of user are full filled.
- 2. Implementation is tested.
- 3. Final systems are tested.
- 4. Maintainece for further errors and development are tested.

Maintenance:

As requirements evolve and bug reports come in from the field

- prioritize changes
- make changes (a kind of mini-s.d.p.)
- validate changes
 - o new test cases
- validate that change does not break previously working code
 - regression testing

Experiment Name: Write a program to make a **Library Management System** software with the help of database.

Objective: To Write a program to make a Library Managementsystem and store Data in database then display it.

Requirements:

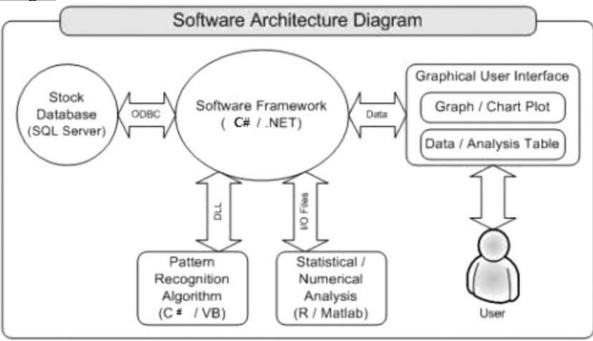
Functional requirements:

- 1. Books post information.
- 2. Book Author Information
- 3.Book Edition information

Equipment/development tools

- -a PC(Any Os installed) or MAC
- -XAMPP server installed
- -Notepad++
- -HTML, CSS, Javascipt
- -Server language:PHP
- -Database system: MySQL

Design:



Implementation:

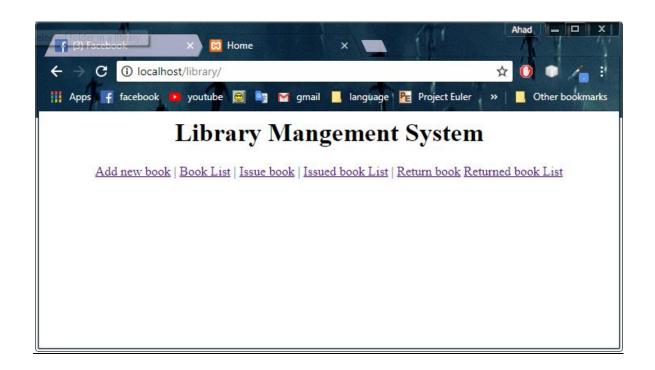
Procedure:

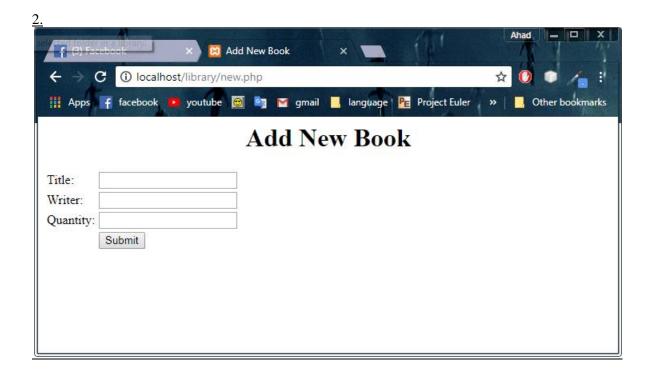
- 1. Turn on xampp and start Apache and MySQL
- 2. Go to C:\Xampp\htdocs, create a folder named library_management_system and write the codes with Notepad++
- 3. Go to a browser and type localhost/phpmyadmin

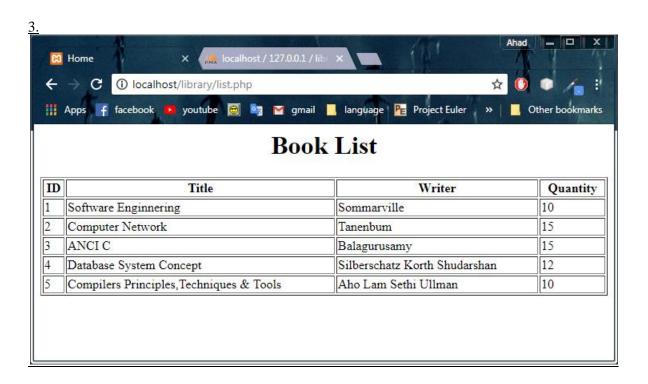
- 4. Setup database
- 5. Go to a browser and type localhost/library_management_system
- 6. Use the created system.

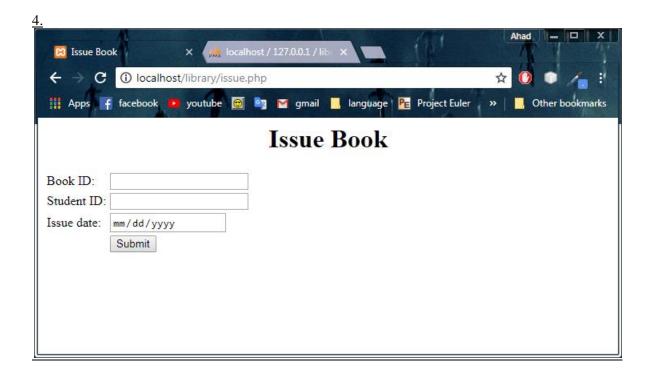
```
Sample code:
For adding new books:
<html>
      <head>
           <title>Add New Book </title>
     </head>
     <body>
           <h1 align="center">Add New Book </h1>
           <form method="post" action="save.php">
                 Title: 
                       <input type="text" name="title" />
                 Writer: 
                       <input type="text" name="writer" />
                 Quantity: 
                       <input type="text" name="quantity" />
                 <input type="submit" name="submit" value="Submit" />
                 </form>
     </body>
</html>
```

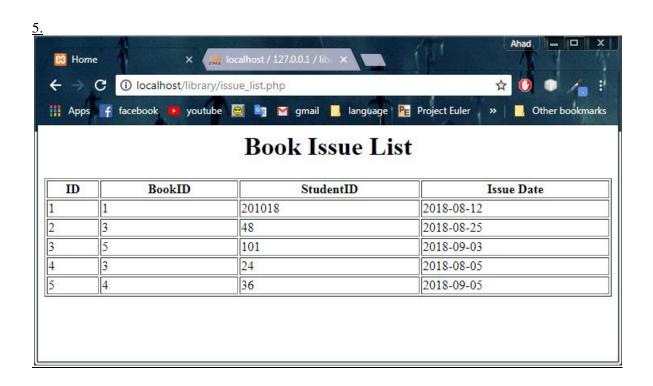
1.

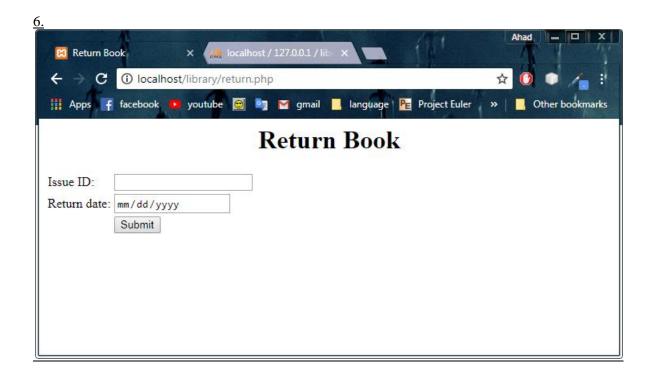


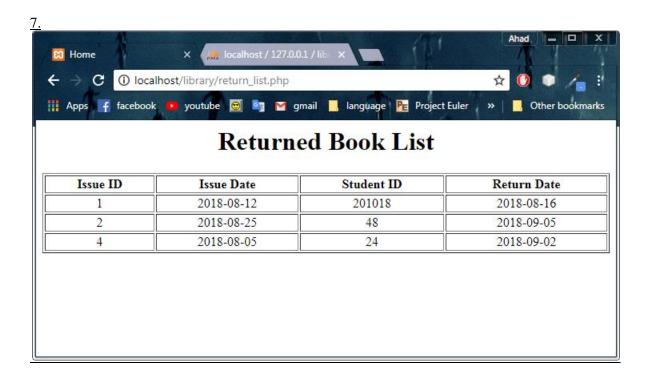












Verification & Validation:

- 1. Requirements of all needs of user are full filled.
- 2. Implementation are tested.
- 3. Final system are tested.
- 4. Maintainece for further errors and development are tested.

Maintenance: As requirements evolve and bug reports come in from the field

- prioritize changes
- make changes (a kind of mini-s.d.p.)
- validate changes
 - o new test cases
- validate that change does not break previously working code
 - regression testing