UNIVERSITY DEPARTMENT WEBSITE

PROJECT REPORT SUBMITTED TO BHARATHIAR UNIVERSITY IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF THE DEGREE OF

MASTER OF COMPUTER APPLICATIONS

Submitted by

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20CSEA30

Under the esteemed Guidance of

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JUNE – 2022

CERTIFICATE

CERTIFICATE

This is to certify that the project work titled "**University Department Website**" submitted to Bharathiar University in partial fulfilment of the requirements for the award of the degree of Master of Computer Applications is a record of the original work done by **VIJAY PRAKASH (20CSEA30)** under my supervision and guidance and that this project work has not formed on the basis for the award of any Degree/ Diploma/Associateship/Fellowship or similar title to any candidate of the University.

Signature of the Guide **Head of the Department**

Submitted for the Project VIVA-VOCE Examination held on _____

Internal Examiner **External Examiner**

_____ _____

DECLARATION

DECLARATION

I hereby declare that this project work titled **"University Department Website"** submitted to the Department of Computer Applications, Bharathiar University is a record of original work done by **Vijay Prakash** under the supervision and guidance of **Dr.M.Punithavalli M.Sc.,M.Phil.,Ph.D.,** and that this project work has not formed on the basis for the award of any Degree/Diploma/Associateship/Fellowship or similar title to any candidate of any University.

Place : Coimbatore

Date :

Signature of the Candidate

Countersigned by

Dr.M.Punithavalli M.Sc.,M.Phil.,Ph.D,

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ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

I take this opportunity to acknowledge with great pleasure, deep satisfaction and gratitude, the contribution of many individuals in the successful completion of project.

I would like to express my sincere gratitude to **Dr.T.DEVI, Ph.D(U.K),** Professor, Head of the Department, Department of Computer Applications, School of Computer Science and Engineering, Bharathiar University, Coimbatore. For her constructive criticism throughout the project.

I feel elated in manifesting our sense of gratitude to our internal project guide **Dr.M.Punithavalli,M.Sc.,M.Phil.,Ph.D,** Professor, Department of Computer Applications, School of Computer Science and Engineering, Bharathiar University, Coimbatore. She has been a constant source of inspiration for us and we are very deeply thankful to her for her support and valuable advice.

We are extremely grateful to all our staff members, friends and to my parents for their support, which steered me towards the successful completion of the project.

SYNOPSIS

SYNOPSIS

- The project entitled as **"University Department Website"** has been developed by using HTML, CSS as a Front-End and PHP as Back-end.
- This project keeps track and maintains details about each and every student in the database which ultimately avoids manual work and paperwork. It is based on decentralized client-server architecture in order to facilitate independent functioning of all units.
- The main function of this system is to register and store details of students from various course and can be retrieve those when they actually need, and also to manipulate these details meaningfully.
- The primary job of this system is to help the students to find their appropriate information for the academics and their clarifications
- This website is accessible for everyone. Only the students, scholars and alumnus of this department can register and add their details into the database. The stored data can be retrieved easily. The stored data is well protected for personal use and makes the data processing very fast.

CONTENTS

CONTENTS

1. INTRODUCTION

1.1 SYSTEM OVERVIEW

"University Department Website" keeps track and maintains details about every student in the database which ultimately avoids manual and paperwork. It is based on decentralized client-server architecture to facilitate independent functioning of all units. This system includes registration of students, scholars, alumni and storing their details into the database. This system has the facility to provide unique id to every student those who are all registered so that it can't be re-registered again. Since it has educational website, it allows everyone to access the website. But only the students of this department can register their details into the database. These stored data can be retrieved easily when they are required. The interface is user-friendly and secure. This makes the data processing very fast. This system is designed for multiple operations, to cover a wide range of office administration and management processes. It is an integrated end-to-end system that provides relevant information to the students across various things. University Department Website is a software product suite designed to improve the quality and management of students in the areas of where they have to focus more like placements, interviews, projects, etc,. Managing the key processes efficiently is critical to the success of this Department site.

SYSTEM SPECIFICATION

2. SYSTEM SPECIFICATION

2.1 HARDWARE REQUIREMENT

PROCESSOR	:	DUAL CORE
HARD DISK CAPACITY	:	250 GB
INTERNAL MEMORY CAPACITY	:	2 GB
CPU CLOCK	:	2.3 GHz

2.2 SOFTWARE REQUIREMENT

OPERATING SYSEM	:	WINDOWS 7
FRONT END	:	HTML,CSS,JAVASCRIPT
BACK END	:	PHP

2.3 MODULES

STUDENT

- Name
- Register Number
- Course
- E-mail

SCHOLAR

- Name
- Register Number
- Existing Course name
- Current Course name
- E-mail

ALUMNI

- Name
- Register Number
- Course
- Year of Passing
- Address

3. SYSTEM ANALYSIS

System analysis is the process of gathering the facts concerning the system them into elements and relationship between elements. It provides a framework for visualizing the organizational environmental factors that operate on a system. The quality of work performed by a machine is usually uniform, neat, and reliable when compared to doing the same questions manually.

3.1 EXISTING SYSTEM

The existing system is a manual process. Numerous accounts are to be maintained:

1) Students' Details
2) Faculty Details
3) Maintain Students' Information

The existing system to be maintains a lot of paper information. When any statistical analysis is to be carried out, for example: a comparison of the past year's performance with that of the current year, it is also a laborious task of referring to many record books, compiling lists, and carrying out the analysis work.

3.1.1 DRAWBACKS

- Lot of space is required to store all the details of the thieves and the complaints.
- Data is spread across a number of record books, which have to be manually integrated to arrive at a solution.
- The system is prone to human errors. Detection of errors is a difficult task since everything is done manually.
- Tracking of errors to their origin is difficult.
- There is no security to data anyone can view through the data concerning the activities of the consultancy.
- Any modification to the data requires searching through all the records and then making the relevant changes.
- The process is very time consuming.

3.2 PROPOSED SYSTEM

In the proposed system, manual processing of data is very tedious and time consuming and leads to erroneous results, at times. To everyone these snags computers are being used extensively in all fields thereby minimizing manual labour and errors to a great extent. Taking all the advantages involved in computerizing, the proposed system "Department Site" integrates all the manual activities by linking them under a single head. This system processes the day-to-day activities and generates tender reports that help the user to get a good grasp of the situation(s) and take decisions quickly and in-time. In this type of the soft program must maintain all the details.

3.2.1 ADVANTAGES

- The required information can be retrieved easily.
- Corrections can be made easily.
- The details can be stored in the storage system permanently.
- High Speed.
- Reports can be generated.
- Large volume of records to process.

3.3 FEASIBLITY ANALYSIS

3.3.1 TECHNICAL FEASIBLITY

This is concerned with specifying equipment and software that will successfully satisfy the user equipment. The technical needs of the system may include:

Front and Back end Selection:

The important issue for the development of a project is the selection of suitable front-end and back-end. When we decided to develop the project we want through an extensive study to determine the most suitable platform that suits the need of the organization as well as helps in development of the project. The aspects of our study the following factors:

Front-end Selection:

The html is a computing platform that simplifies the application development in the highly distributed environment of the internet.

- Scalability and Extensibility
- Flexibility
- Robustness
- Easy to debug and maintain
- Must provide the excellent reporting features with good printing support.
- Event driven programming facility

Back-end selection:

The PHP communication component also allows communication between and application running on the server and SQL server.

- Multiple user support
- Efficiently data handling
- Popularity
- Easy to install
- Stored procedures
- Easy to implement with front end
- Provide inherent features for security

The technical feasibility is frequently the most difficult area encountered at this stage. It is essential that the process of the analysis and definition be conducted in parallel with an assessment to technical feasibility. It centers on the existing computer system and to what extent it can support the proposed system.

3.3.2 Economic Feasibility

Economic justification is generally the “Bottom line” consideration for the most system. Economic justification includes a broad range of concerns that includes cost benefits analysis. In this we weight cost and the benefits associated with the candidate system and it suits the basic purpose of the organization.

3.3.3 Operational Feasibility

It is mainly related to human organization and political aspects. The system is operationally feasible as it very easy for the users to operate it. It needs only basic information about windows platform.

4. SYSTEM DESIGN AND DEVELOPMENT

4.1 ELEMENT OF DESIGN

System development can be generally thought of as having two major components: System analysis and System design is the process of planning a new business system or one to replace or complement an existing system. But before this planning can be done, we must thoroughly understand the old system and determine how computers can best be used to make its operation more effective.

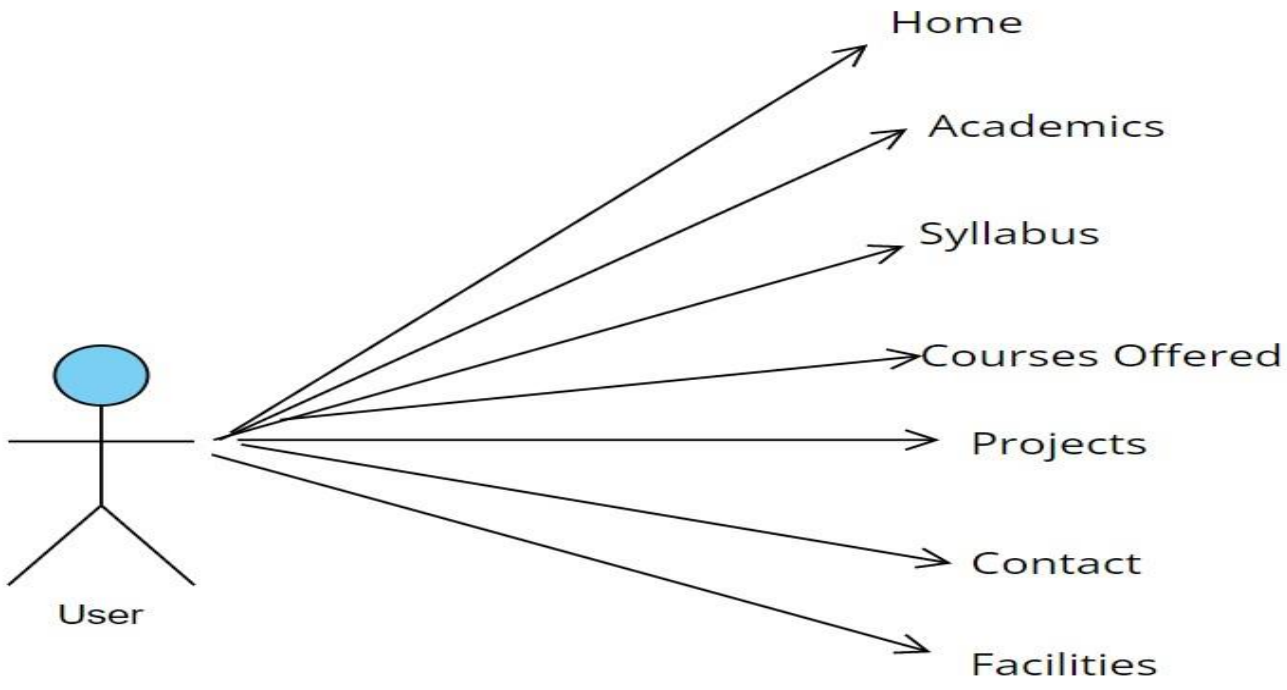
4.2 UML APPROACH

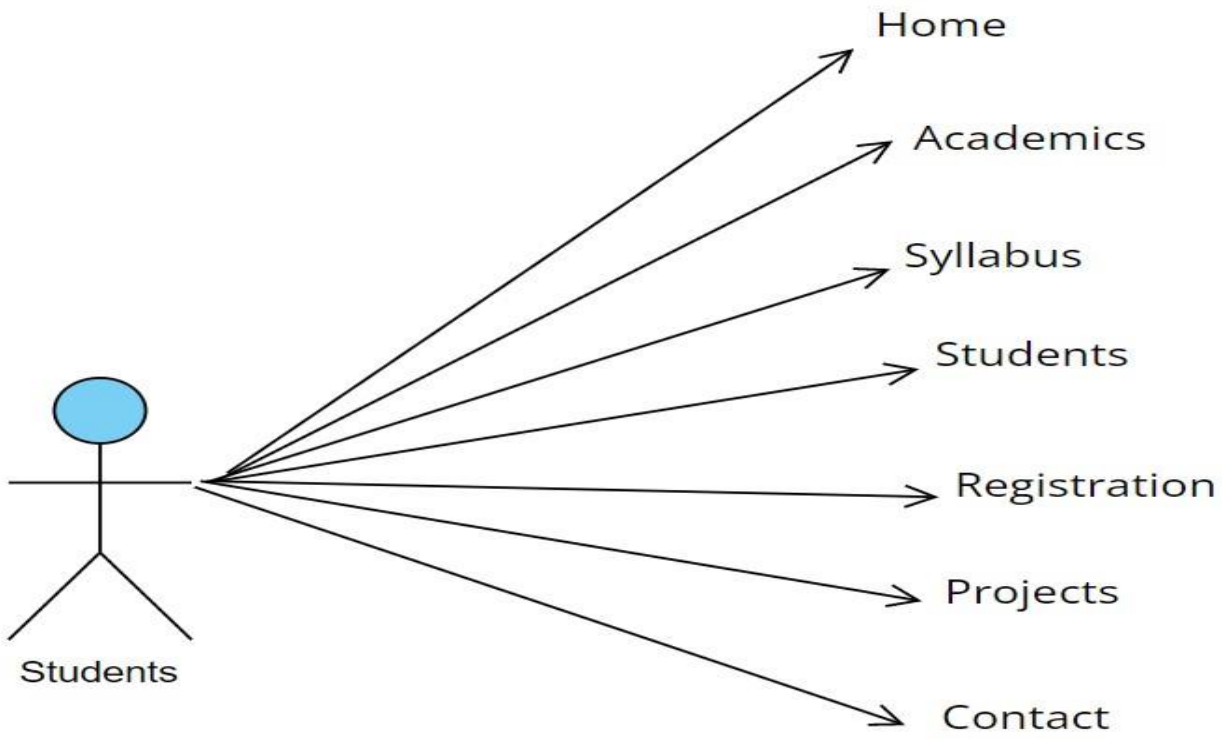
A diagram is the graphical presentation of a set of elements, most often rendered as a connected graph of vertices and arcs .You draw a diagram to visualize a system from a different perspective, so a diagram is a projection into a system. For all but most trivial systems, a diagram represents an elided view of the elements that make up a system. The same element may appear in all diagrams, only a few diagrams , or in no diagrams at all. In theory, a diagram may contain any combination of things and relationships. In practice, however, a small number of common combinations arise, which are consistent with the five most useful views that comprise the architecture of a software-intensive system.

1) Use case Diagram
2) Class Diagram
3) E-R Diagram
4) Deployment Diagram

4.2.1 Use Case Diagram

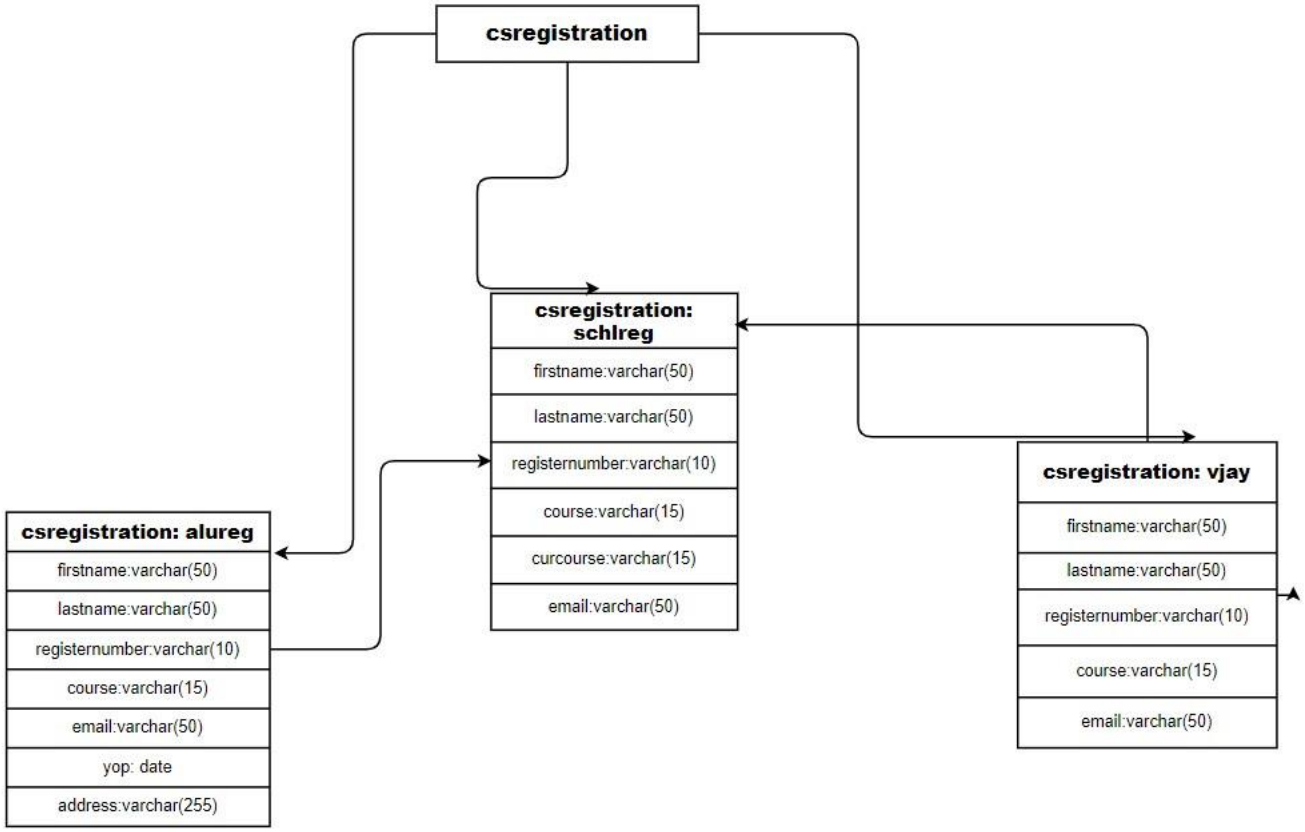
A use case diagram in the Unified Modelling Language(UML) is a type of behavioural diagram defined by and created from a use-case analysis. Its purpose is to present a graphical overview of the functionality provided by a system in terms of actors, their goals(represented as use cases),and any dependencies between those use cases.

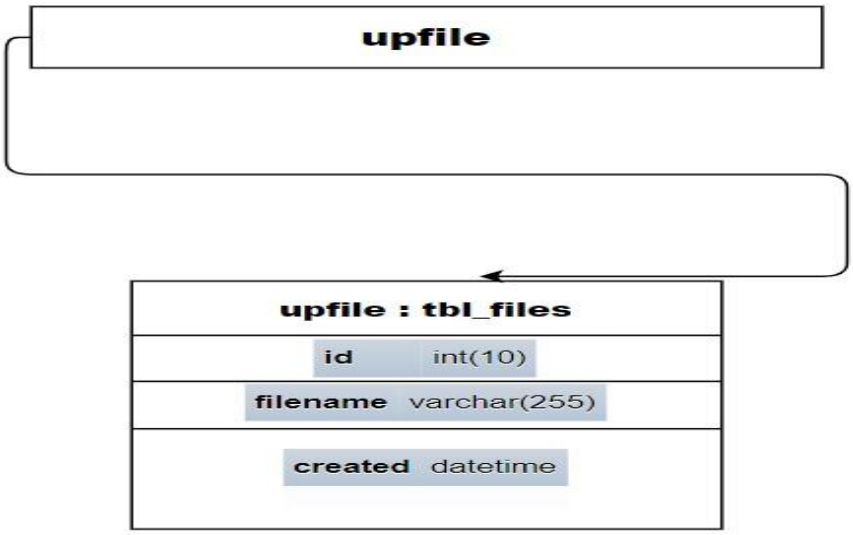




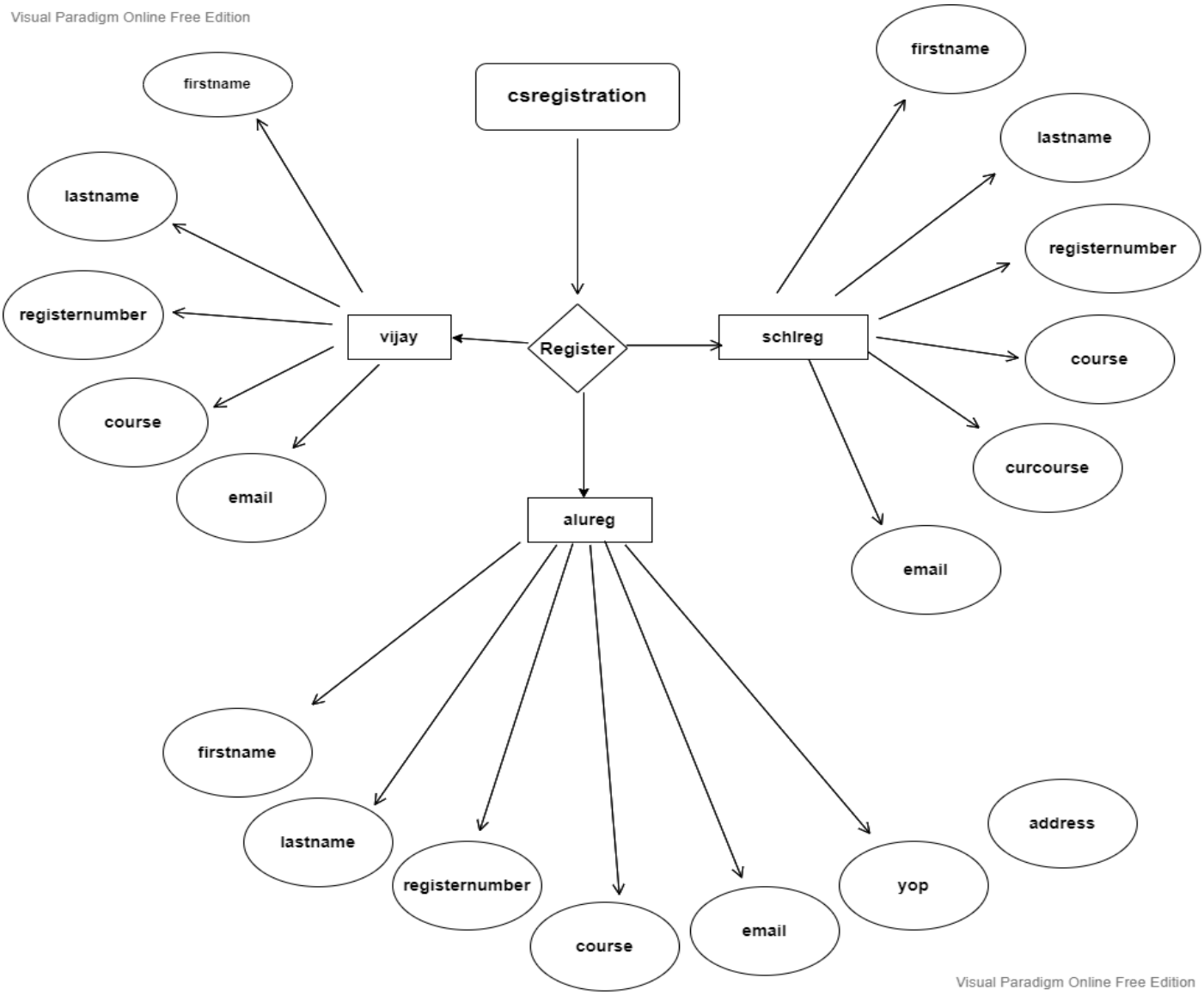
4.2.2 Class Diagram

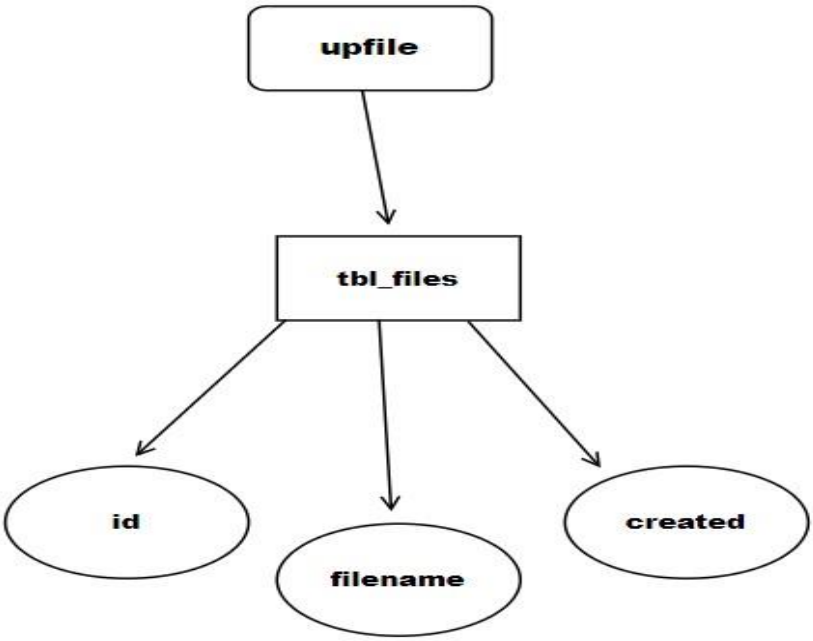
A Class is a category or group of things that has similar attributes and common behaviour. A Rectangle is the icon that represents the class it is divided into three areas. The upper most area contains the name, the middle; area contains the attributes and the lowest areas show the operations. Class diagrams provide the representation that developers work from. Class diagrams help on the analysis side, too.





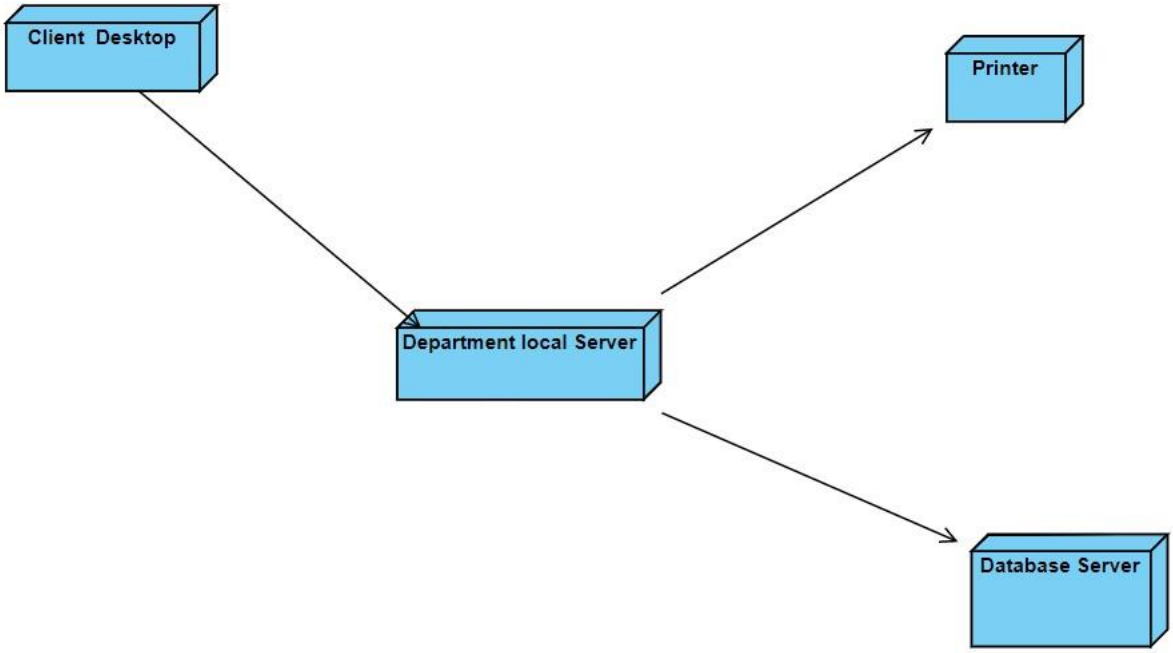
4.2.3 E-R Diagram





4.2.4 Deployment Diagram

A Deployment Diagram shows the configuration of run-time processing nodes and the components that live on them. Deployment diagrams address the static deployment view of architecture. They are related to component diagrams in that a node typically encloses one or more components.



5. SYSTEM TESTING AND IMPLEMENTATION

5.1 SYSTEM TESTING

Software testing is a critical element of software quality assurance and represents the ultimate review of specification design and coding. In fact, testing is the one step in the software engineering process that could be viewed as destructive rather than constructive.

A strategy for software testing integrates software test case design methods into a well-planned series of steps that results in the successful construction of software. Testing is the set of activities that can be planned in advance and conducted systematically. The underlying motivation of program testing is to affirm software quality with methods that can economically and effectively apply to both strategic to large-and small -scale systems.

Type of Testing:

- Unit Testing
- System Testing
- Integration Testing
- Output Testing

5.1.1 Unit Testing

Unit testing involves the design of test cases that validate that the internal program logic is functioning properly, and that program inputs produce valid outputs. All decision branches and internal code flow should be validated. It is the testing of individual software units of the application .It is done after the completion of an individual unit before integration. This is a structural testing that relies on knowledge of its construction and is invasive. Unit tests perform basic tests at component level and test a specific business process, application, and/or system configuration. Unit tests ensure that each unique path of a business process performs accurately to the documented specifications and contains clearly defined inputs and expected results.

5.1.2 System Testing

System testing ensures that the entire integrated software system meets requirements. It tests a configuration to ensure known and predictable results. An example of system testing is the configuration oriented system integration test. System testing is based on process descriptions and flows, emphasising pre-driven process links and integration points.

5.1.3 Integration Testing

Integration tests are designed to test integrated software components to determine if they actually run as one program. Testing is event driven and is more concerned with the basic outcome of screens or fields. Integration tests demonstrate that although the components were individually satisfactory, as shown by successfully unit testing, the combination of components is correct and consistent. Integration testing is specifically aimed at exposing the problems that arise from the combination of components.

5.1.4 Output Testing

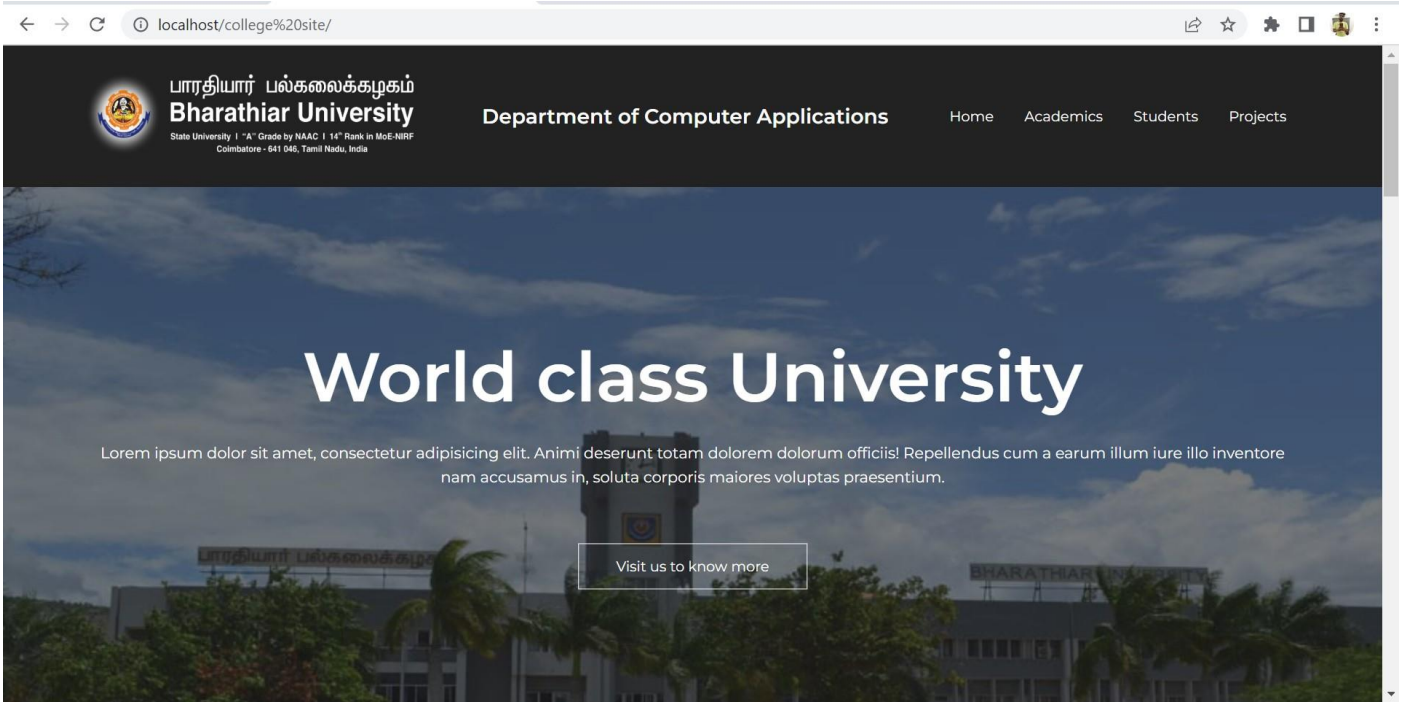
Asking the user about the format required by them tests the output generated by the system under consideration. It can be done in two ways, one on screen and other on printer format. The output format on the screen is found to be correct as the format designed in system test.

5.2 SYSTEM IMPLEMENTATION

It making the new system available to a prepared set of users, and positioning on-going support and maintenance of the system within the performing organization. At a finer level details, deploying the system consists of executing all steps of necessary to educate the consumers on the user of new system placing the newly developed system into production, confirming that all data required at the start of operations is available and accurate, and validating that business functions that interact with the system are functionating properly. Transitioning the system support responsibilities involves changing from the system development to a system support and maintenance mode of operation, with ownership of the new system from the project team to the performing organization.

5.3 SAMPLE SCREENSHOTS

HOME:



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Online Courses

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Post-Graduation Courses

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Student-1

★★★★

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Student-2

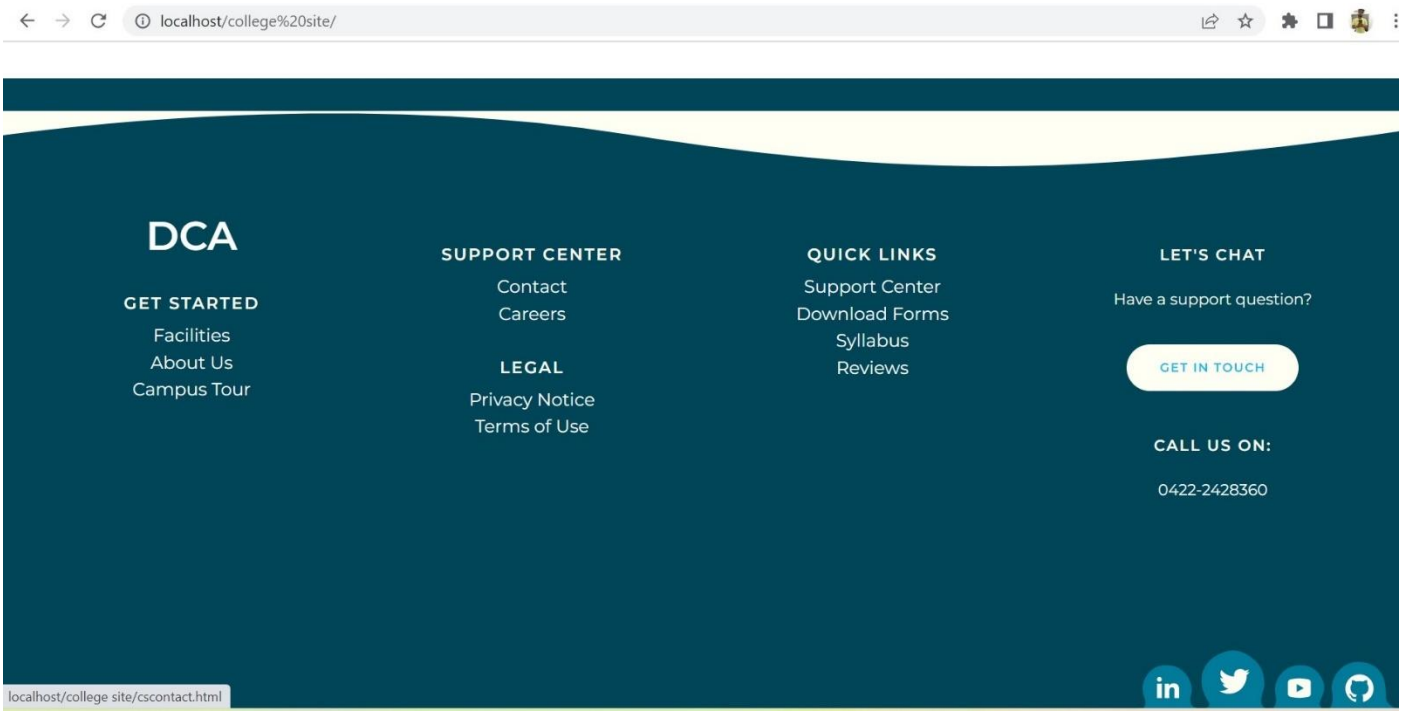
★★★★

Admissions - 2022

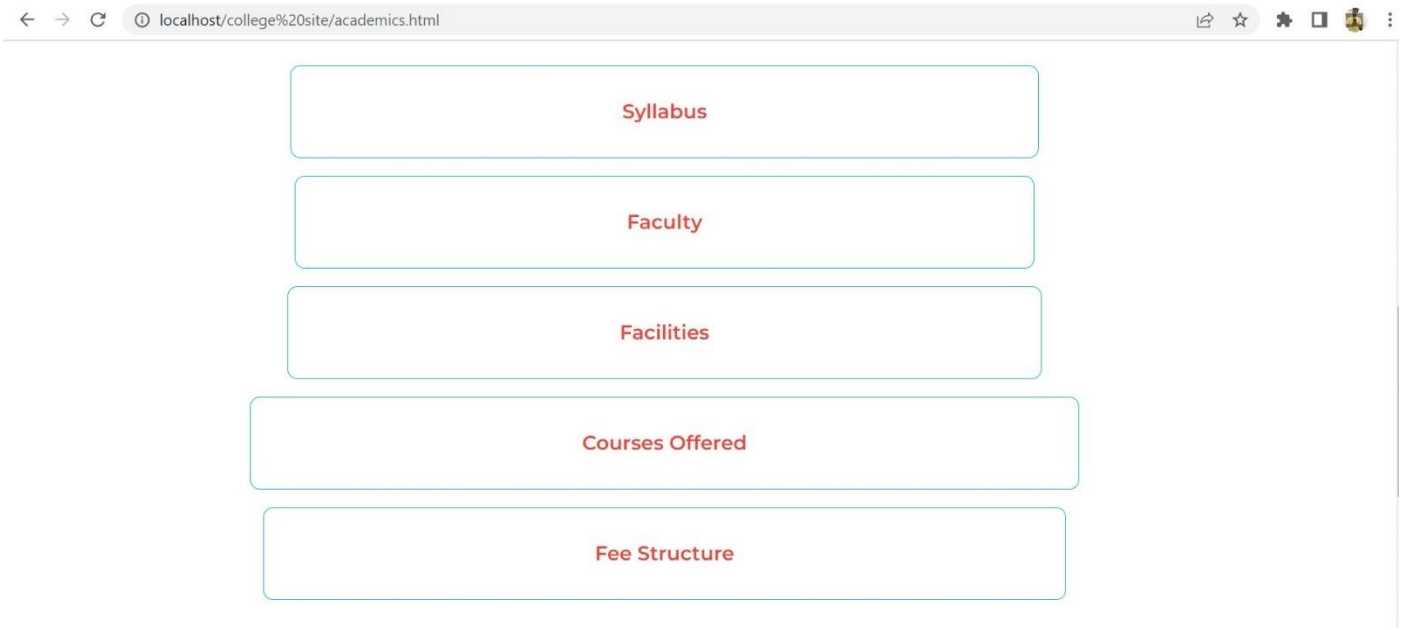
Fee Payment

https://b-u.ac.in/146/pg-admission

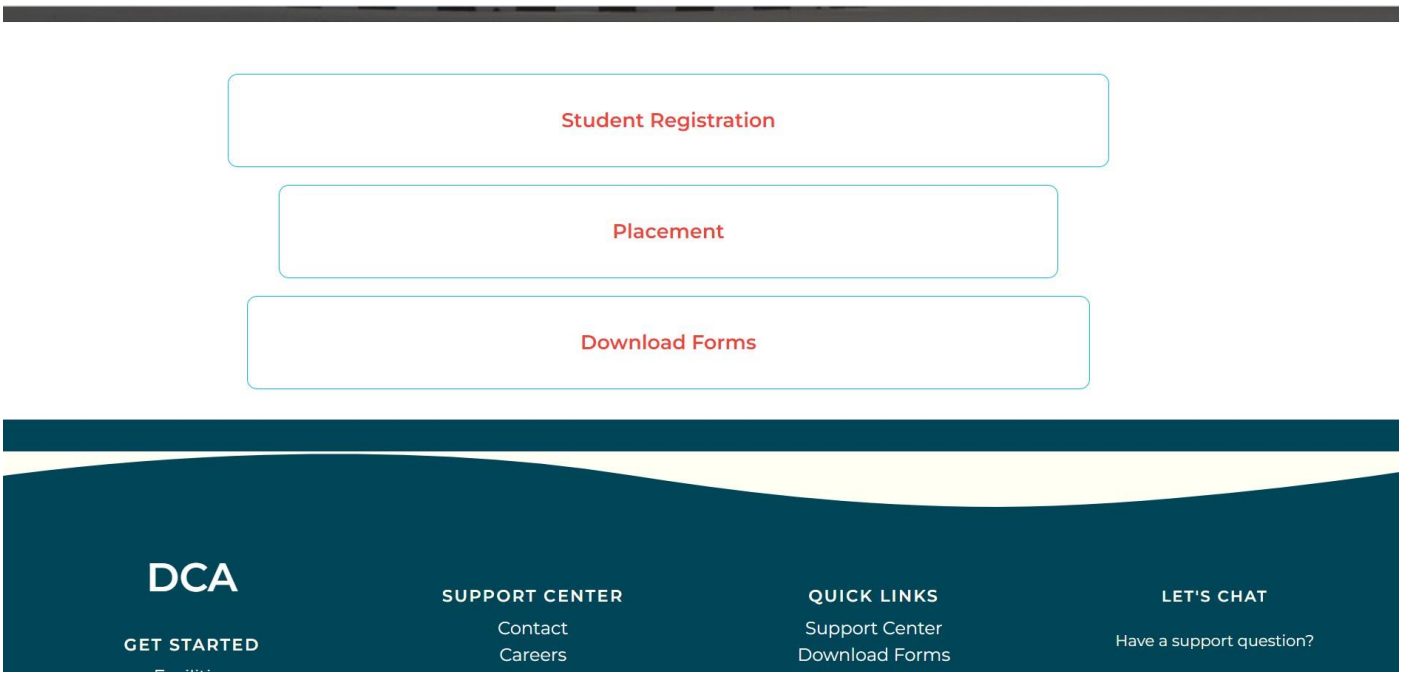
FOOTER:



ACADEMICS:

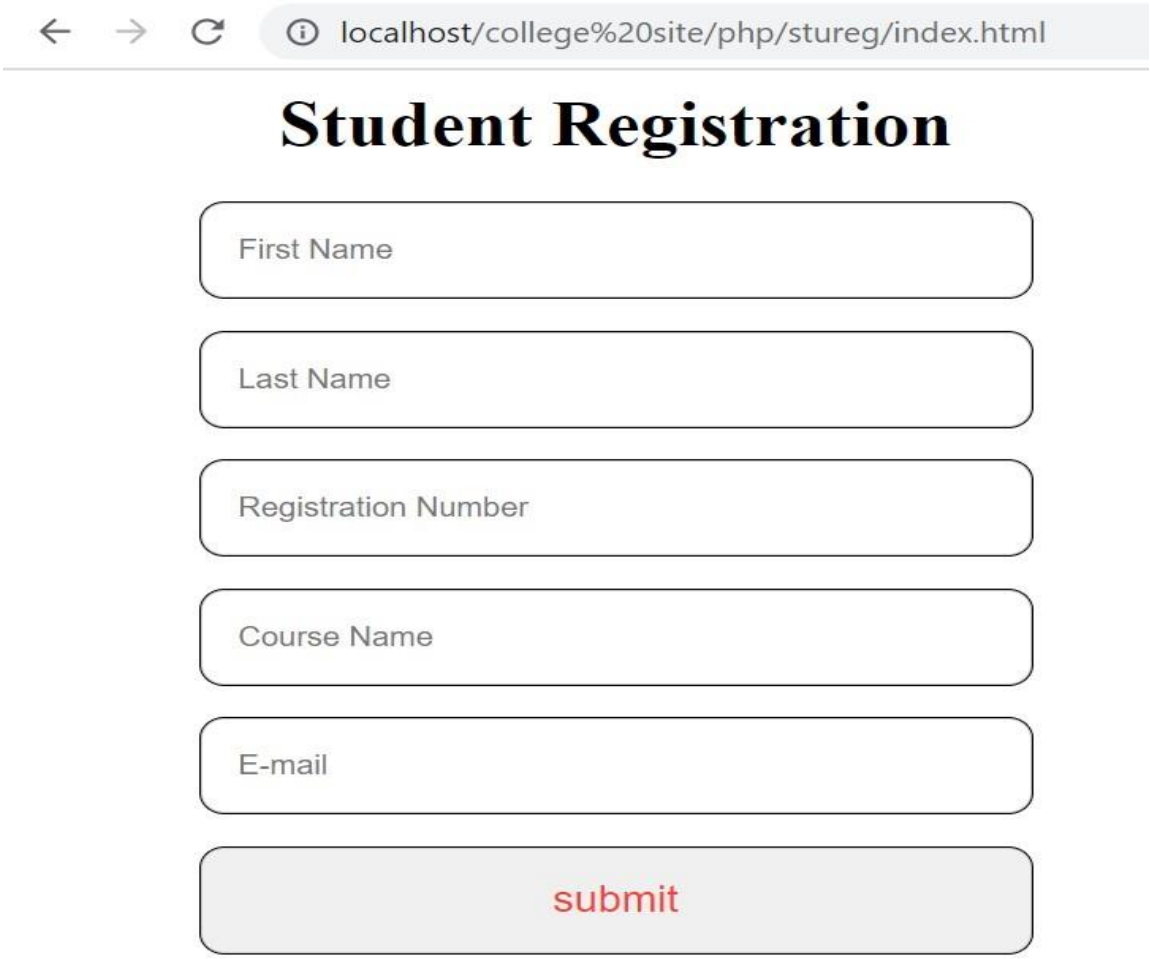


STUDENTS:

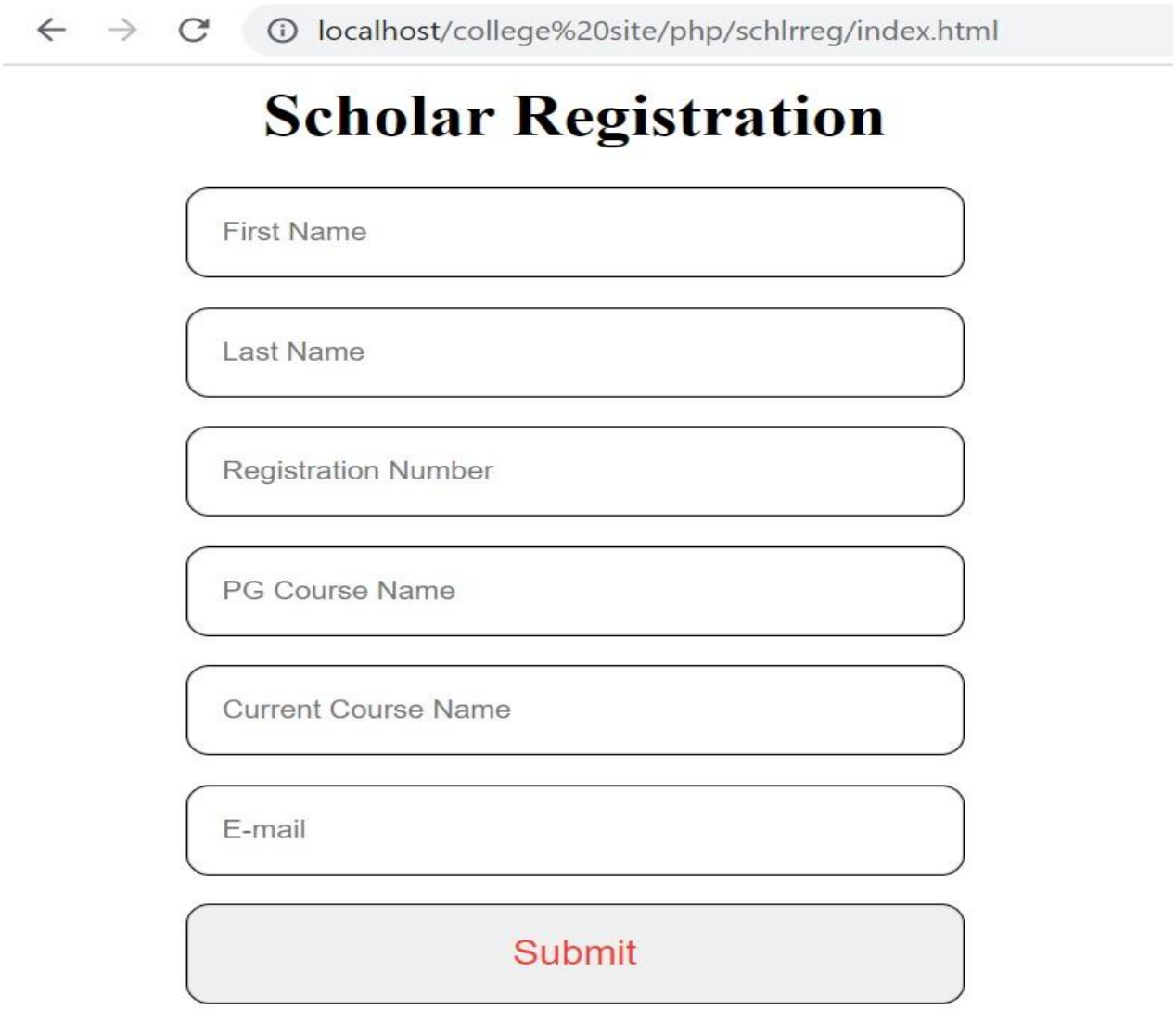


REGISTRATION:

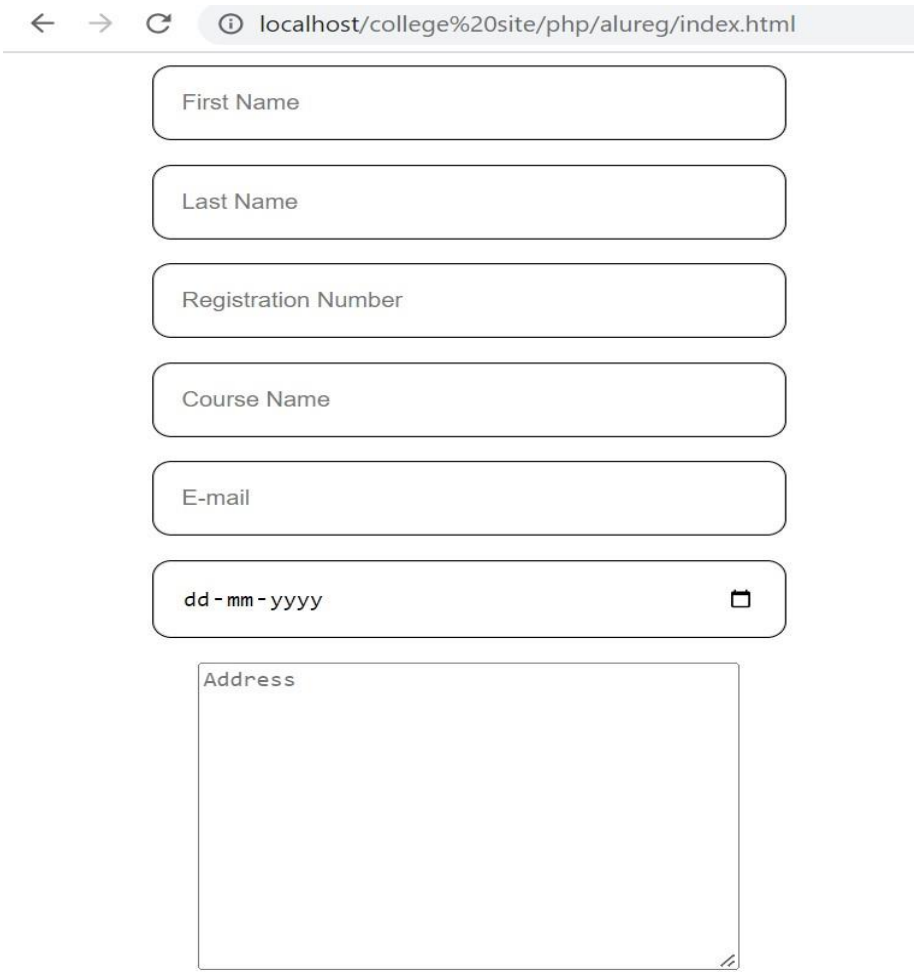
STUDENT REGISTRATION:



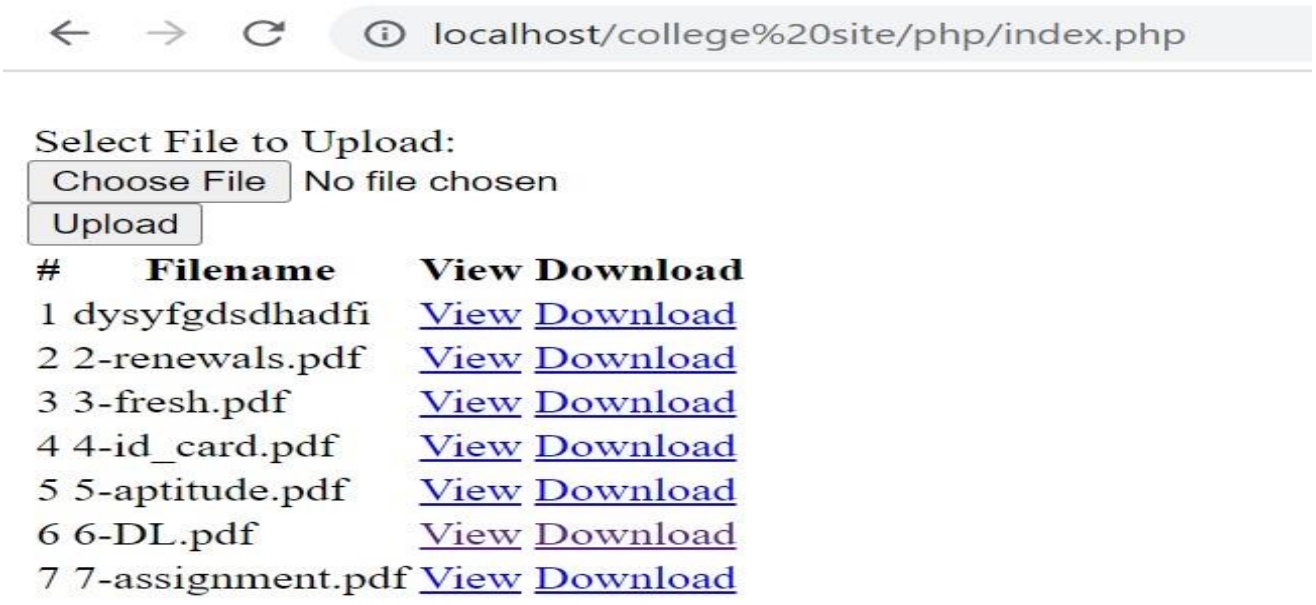
SCHOLAR REGISTRATION:



ALUMNI REGISTRATION:



FILE UPLOAD:



CONCLUSION AND FURTHER ENHANCEMENT

6. CONCLUSION AND FURTHER ENHANCEMENT

6.1 CONCLUSION

The **"University Department Website"** project is to bring a full-fledged computerized department, and to enable the transaction details to maintain records, which makes the work easier. Thus, the proposed system has been developed with good amount of flexibility without compromising on the response time. Computerization of the entire system will enhance more accuracy and reduces major part of clerical works faster, clearer and legible reports can be generated without any ambiguity. Integrated database design and ease of maintenance is a major advantage of the system. Since we're entering the details of the students electronically in this system, data will be secured. Thus processing information will be faster. It guarantees accurate maintenance of every records. Hence by developing a system that is user-friendly in nature, many users are able to work on the system with little of computer knowledge and training.

6.2 FURTHER ENHANCEMENT

The project has been developed and the objectives are achieved successfully. The project has been developed with front-end as HTML,CSS,JS and back-end as PHP. The front-end can also be enhanced with JS libraries and frameworks like React,Vue,Angular for more powerful and responsive. The system is currently developed and ready for implementation to include the system is highly feasible and user-friendly. To provide better facility regarding security, it uses security provider software, and we access any place anywhere use that. It can have a proper enhancement in the future according to the user's requirements.

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7. BIBILIOGRAPHY AND REFERENCES

REFERENCES BOOKS

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- **How to Do Everything with PHP and MySQL** by Vikram Vaswani.

- **MySQL/PHP Database Applications**, 2nd edition by Brad Bulger.

- **PHP MySQL Website Programming:Problem-Design-Solution** by Chris Lea, Mike Buzzard, Dilip Thomas, Jessey White-Cinis.

APPENDICES

APPENDICES

SAMPLE CODING

```
<?php
include_once 'dbconnect.php';
$sql = "select filename from tbl_files";
$result = mysqli_query($con, $sql);
 ?>


<!DOCTYPE html>
<html>
<head>
   <title>Documentation Upload</title>
   <meta content="width=device-width, initial-scale=1.0" name="viewport" >
   <link rel="stylesheet" href="css/cs.css">


</head>
<body>
<br/>
<div class="container">
   <div class="row">
      <div class="col-xs-8 col-xs-offset-2 well">
      <form action="upload.php" method="post" enctype="multipart/form-data">
         <legend>Select File to Upload:</legend>
         <div class="form-group">
            <input type="file" name="file1" />
         </div>
         <div class="form-group">
            <input type="submit" name="submit" value="Upload" class="hero-btnn"/>
         </div>
         <?php if(isset($_GET['st'])) { ?>
            <div class="alert alert-danger text-center">
            <?php if ($_GET['st'] == 'success') {
```

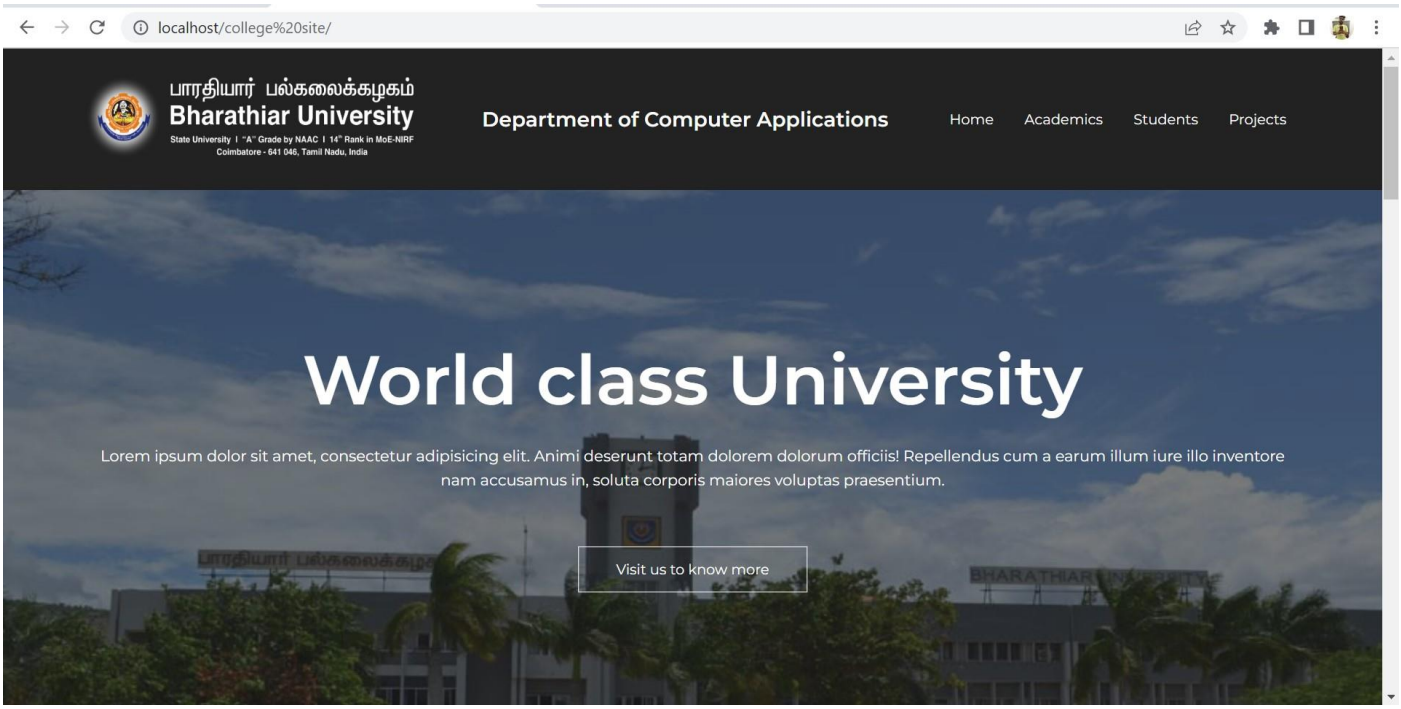
```
                echo "File Uploaded Successfully!";
            }
            else
            {
                echo 'Invalid File Extension!';
            } ?>
        </div>
      <?php } ?>
    </form>
    </div>
</div>

<div class="row">
    <div class="col-xs-8 col-xs-offset-2">
      <table class="table table-striped table-hover">
        <thead>
          <tr>
            <th>#</th>
            <th>Filename</th>
            <th>View</th>
            <th>Download</th>
          </tr>
        </thead>
        <tbody>
        <?php
        $i = 1;
        while($row = mysqli_fetch_array($result)) { ?>

        <tr>
          <td><?php echo $i++; ?></td>
          <td><?php echo $row['filename']; ?></td>
          <td><a href="uploads/<?php echo $row['filename']; ?>" target="_blank">View</a></td>
          <td><a href="uploads/<?php echo $row['filename']; ?>" download>Download</td>
        </tr>
```

```
            <?php } ?>
            </tbody>
          </table>
        </div>
    </div>
</div>
</body>
</html>
```

SCREENSHOTS



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Post-Graduation Courses

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Student-1

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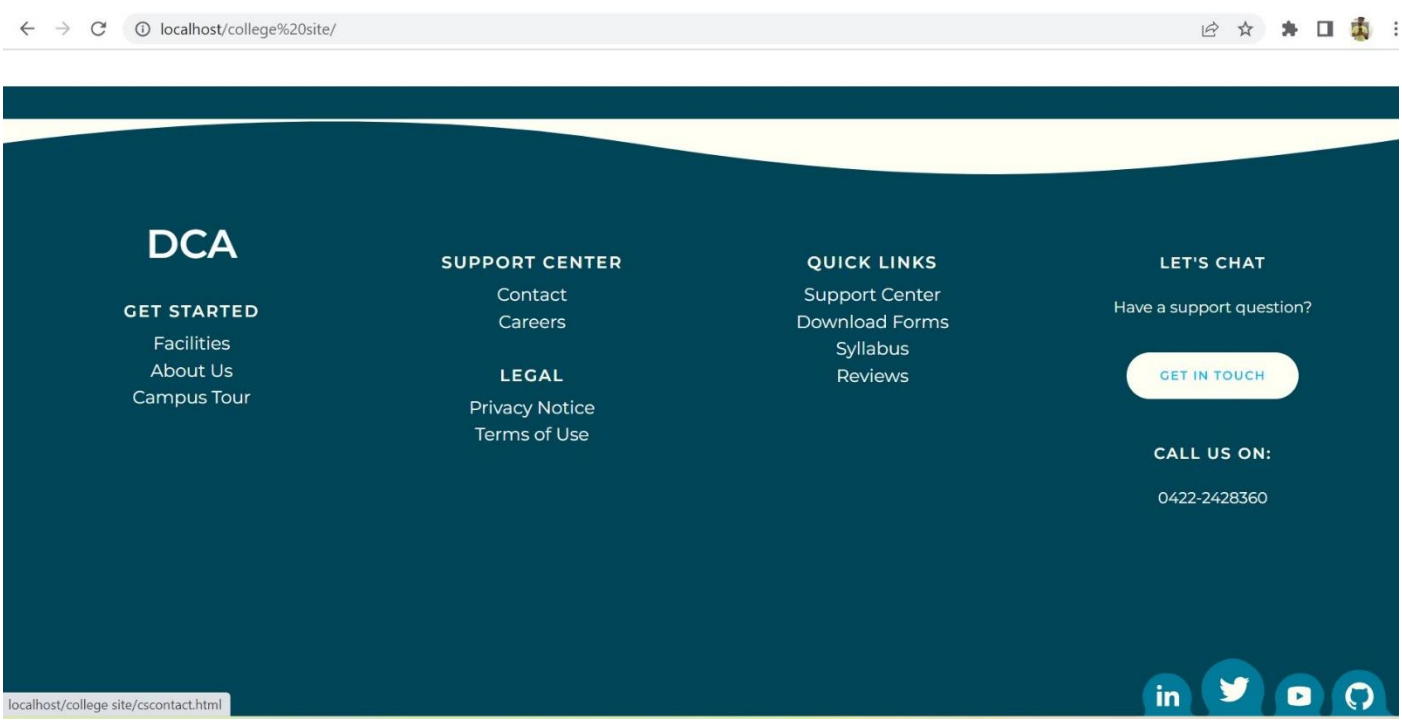
More

Student-2

Admissions - 2022

Fee Payment

https://b-u.ac.in/146/pg-admission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GET STARTED
Facilities
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Campus Tour
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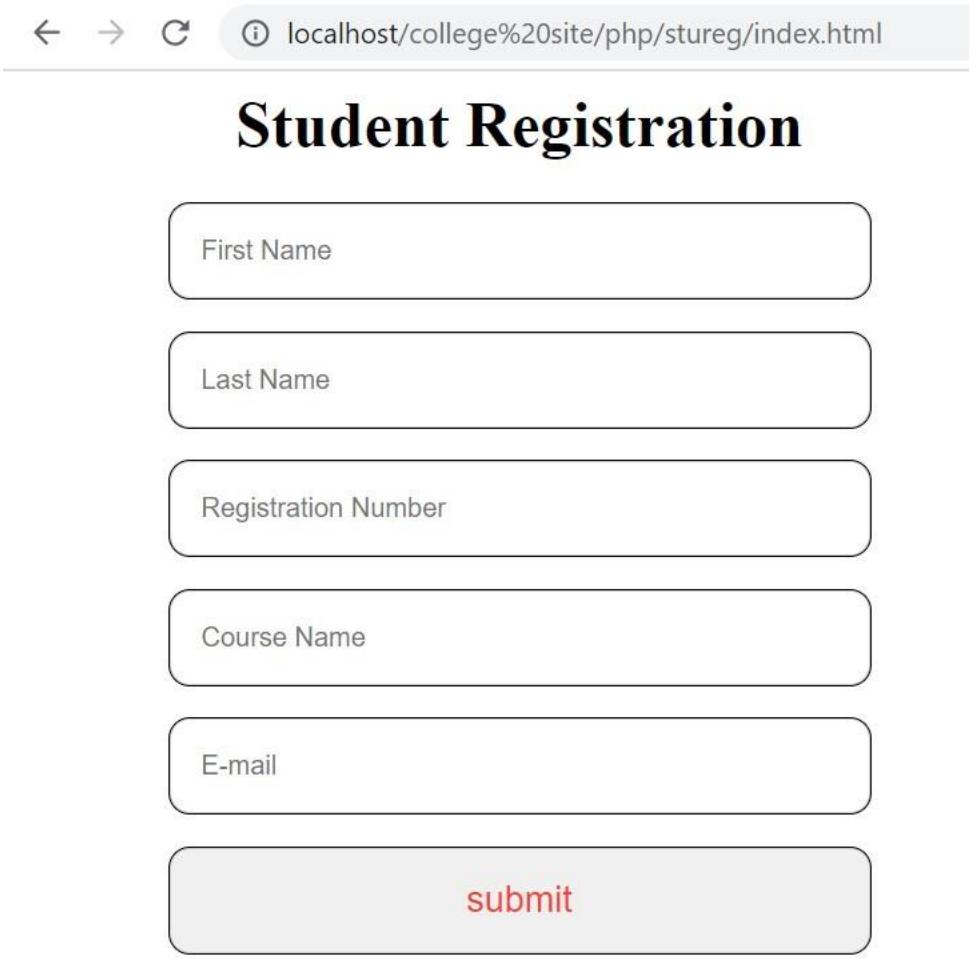
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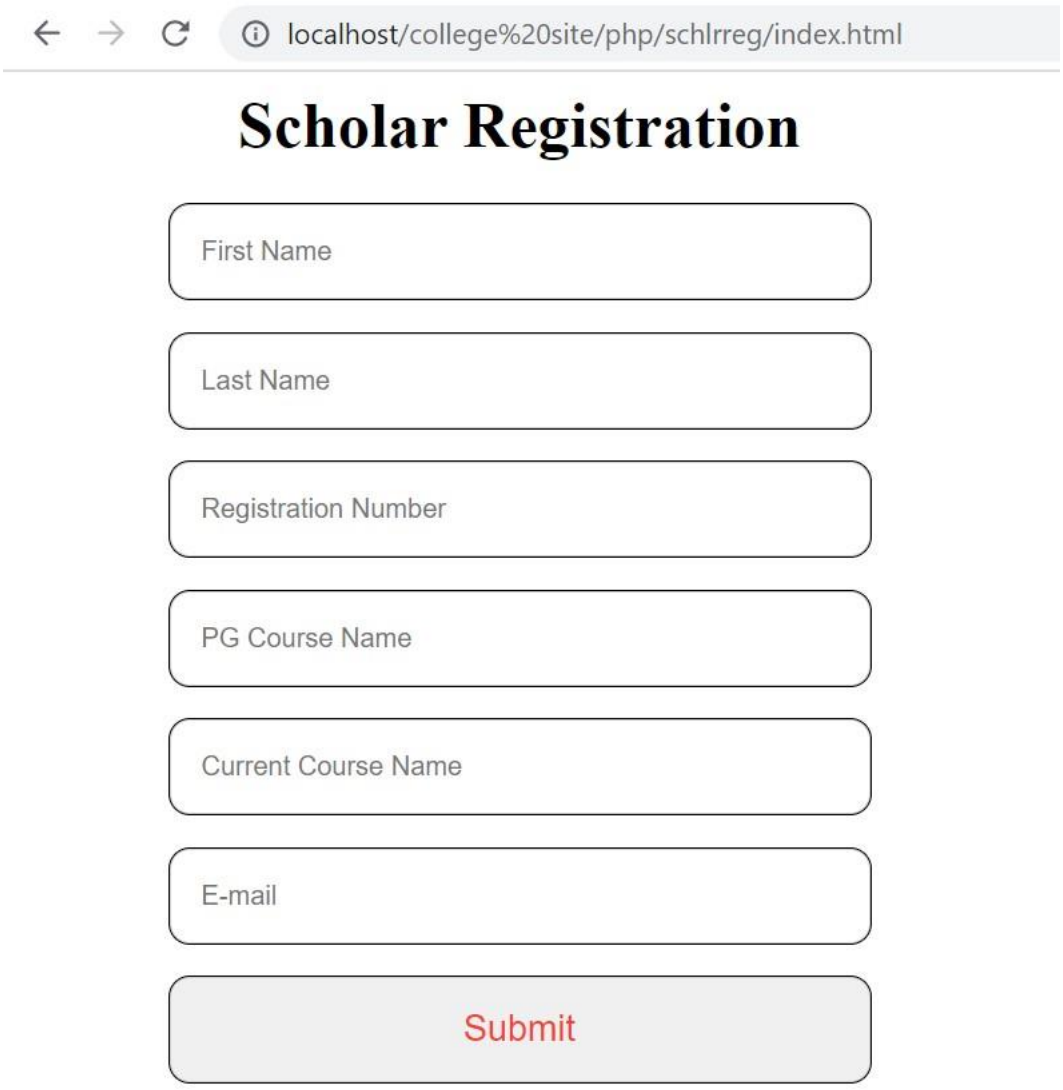
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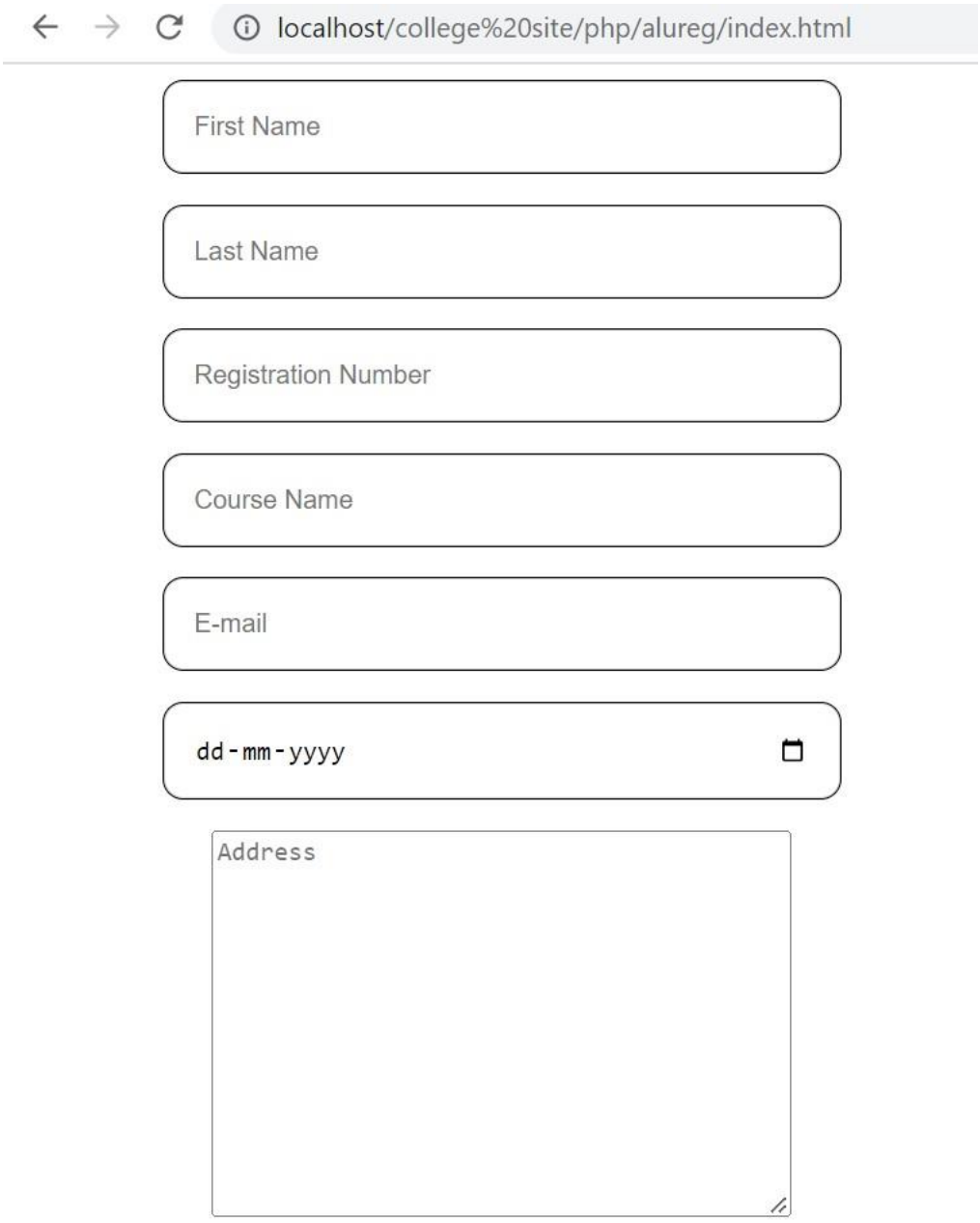
Submit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E-mail
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Address

Select File to Upload:

Choose File No file chosen

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#	Filename	View	Download
1	dysyfgdsdhadfi	View	Download
2	2-renewals.pdf	View	Download
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