

# SCHOLARSHIP MANAGEMENT SYSTEM

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## **Abstract:**

A database management system (DBMS) refers to the technology for creating and managing databases. Basically DBMS is a software tool to organize (create, retrieve, update and manage data in a database.

The main aim of DBMS is to supply a way to store up and retrieve database information that is both convenient and efficient. By data, we mean known facts that can be recorded and that have embedded meaning. Normally people use software such as DBASE IV or V, Microsoft ACCESS or EXCEL to store data in form of database.

Database System is meant to handle large collection of information. Management of data involves both defining structures for storage of information. Moreover, the database system must ensure the safety of the information stored, despite system crashes or attempts at unauthorized access.

This project “Scholarship Management System” students can easily send data for scholarship. By using the scholarship management system you can directly sanction amount to the students account successfully, you can:

Spend less time to check Students details. Easy to send college scholarship and hostel scholarship students details. Be sure you'll receive an accurate amount sanctioned. Eliminate duplicate data entry.

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## CHAPTER NO.1

### 1. INTRODUCTION

Scholarship Management Software for monitoring and controlling the transactions in a library. The project “SCHOLARSHIP MANAGEMENT” is developed in PHP, which mainly focuses on basic operations in a Scholarship.

This Project of “**SCHOLARSHIP MANAGEMENT**” Provide scholarship for Undergraduate and Postgraduate students, so that students from backward class should not face the financial problems.

- **College Scholarship**

Scholarship provides tuition fees to the backward class students. So that students can pursue degree in their dream field.

- **Hostel Scholarship**

Students from rural areas stay in the hostels. So 50% of hostel fees are provided.

### 1.1 Aim of the Project

The aim of this project is to develop software for the effective management of a Scholarship that will be able to achieve the following objectives:

- It reduces manual work.
- Details about Students.
- Amount is sanctioned depending upon the scholarship type.
- Send email to particular student.
- It will avoid duplicate data entry.

## 1.2 Software Requirements:

### ❖ TECHNOLOGIES

#### ➤ Frontend

- HTML
- CSS

#### ➤ Backend

- PHP
- MySQL

### ❖ TOOLS

- VS code
- XAMPP server

### ❖ SOFTWARE REQUIREMENTS:

- Operating system: Windows 7 or Higher
- RAM : Minimum 4GB
- Processor : Intel Core i5

## CHAPTER NO.2

### **2. LITERATURE SURVEY:**

The main goal of Scholarship management system is to manage all records and transaction within the managing of scholarship. Scholarship Management System is a very effective tool for an government to be effective in college scholarship and hostel scholarship management. The traditional way of managing scholarship is performed by using a pen and a paper to fill of form and submit. It is a very long process to document all thousand students Scholarship. Maintaining all the details of students manually i.e., hardcopies will be very complex. Sometimes it becomes difficult to fetch the accurate information about college scholarship and hostel scholarship of a particular student and also difficult to sanction the amount for a particular student.

#### **➤ 2.1 Theoretical Review:**

Scholarship Management system is a web base system that works as a website to manage and functioning all Scholarship activities through a web server (Apache). A web page is what you see on the screen when you type in a web address, click on a link, or put a query in a search engine. A web page can contain any type of information, and can include text, colour, graphics, animation etc.. When someone gives you their web address, it generally takes you to their website's home page, which should introduce you to what that site offers in terms of information or other services. From the home page, you can click on links to reach other sections of the site. A website can consist of one page, or of tens of thousands of pages, depending on what the site owner is trying to accomplish.

#### **➤ 2.2 Empirical Review:**

Over the past 40 years, information technology has had a major impact on the working lives of millions of people. Many industries have embraced computer technology because of the benefits of automated information processing. These include enabling routine, repetitive and monotonous tasks to be conducted with consistent accuracy. IT can enable the storage of structured student details records, management of sanction details, automate the handling of sanction in the supply chain and provide

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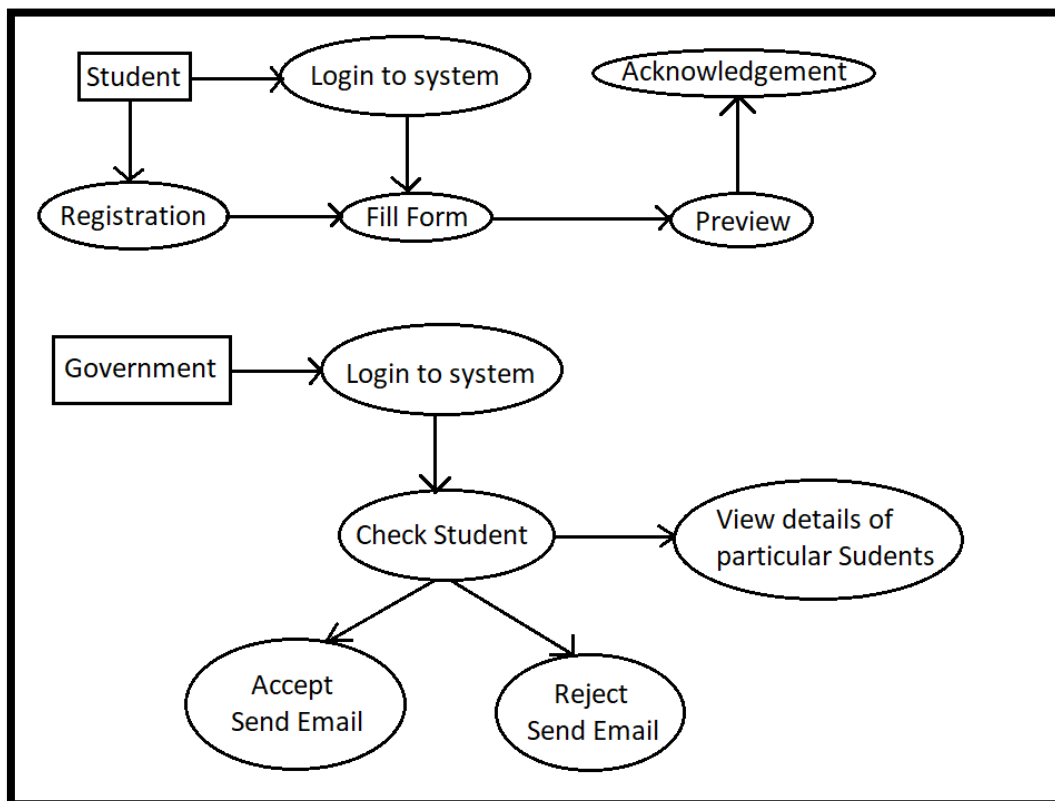
tools for monitoring the efficacy and safety of transaction of sanction amount. IT can therefore improve scholarship management, enable professionals to provide high quality services and help to provide accuracy data through the system that will be able to handle all necessary activities in the scholarship E.g. form filling and sanction reports.

## ➤ 2.3 Data flow diagram:

✓ Data flow diagram is the starting point of the design phase that functionally decomposes the requirements specification.

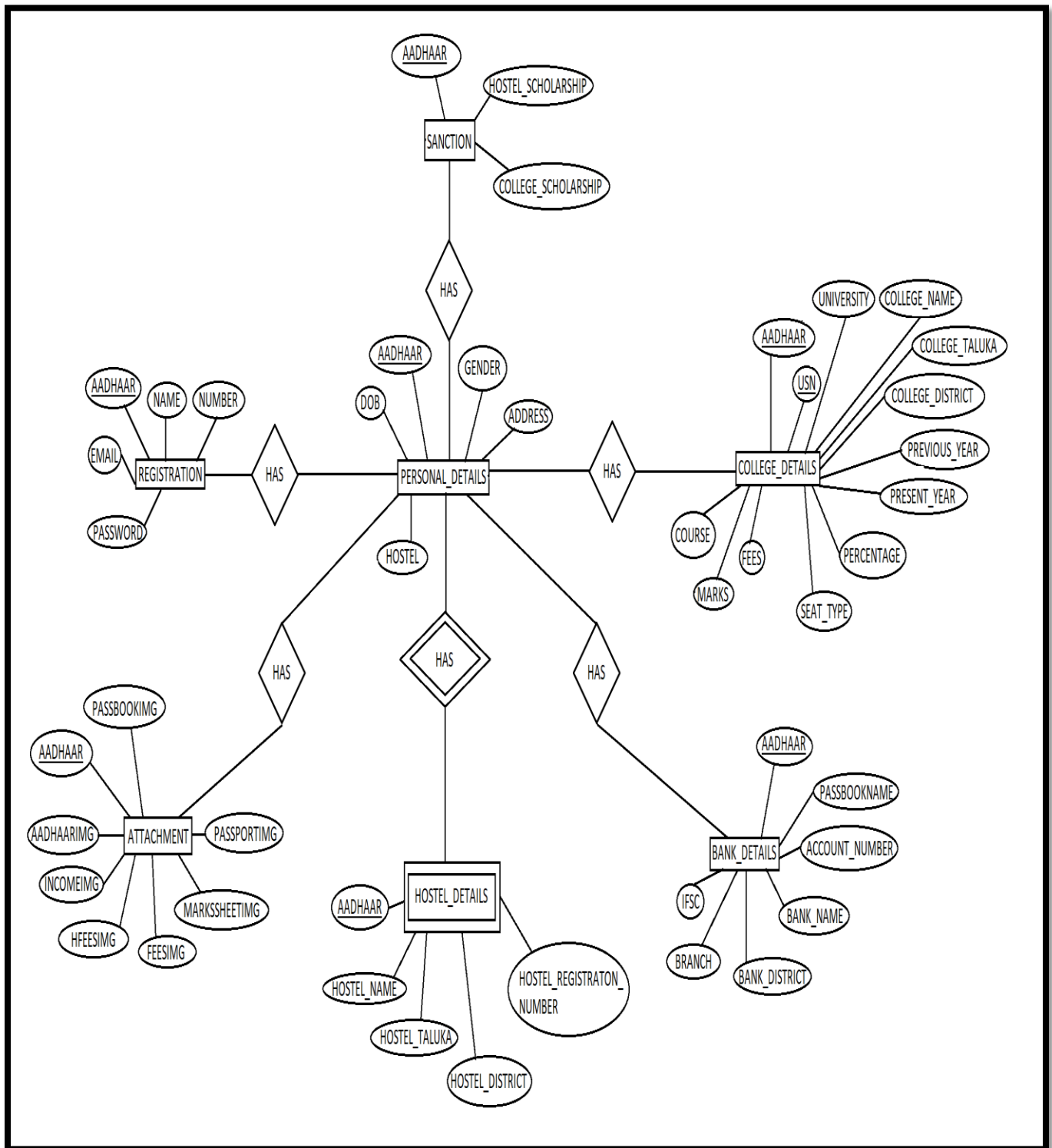
❖ There are seven rules for the construction of dataflow diagram:

- 1) Arrows should not cross each other.
- 2) Squares, circles and files must wears names.
- 3) Decomposed data flows must be balanced.
- 4) No two data flows, squares or circles can be the same names
- 5) Draw all data flows around the outside of the diagram.
- 6) Choose meaningful names for data flows, processes & data stores.
- 7) Control information such as record units, password and validation requirements are not penitent to a data flow diagram.



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## ➤ 2.3.1 Entity – Relationship(ER) Diagram:





## CHAPTER NO.3

### 3. METHODOLOGY:

A methodology is the combination of logically related methods and step by step techniques for successful planning, control and delivery of the project. It is a scientifically-proven. Systematic and Disciplined approach to project development and implementation. An approach that will be used in System Development. In this project I have used System Development Life Cycle (SDLC) Methodology. System Development life Cycle (SDLC) is a traditional methodology for developing Maintaining and replacing information system. This methodology consists of different phases that describe the procedures for successful system development.

- ❖ Planning
- ❖ Analysis
- ❖ Design
- ❖ Implementation
- ❖ Maintenance

#### ➤ 3.1 Planning

It is the process of identifying problems, opportunities, and objectives. This phase required the analysts to look honestly at what is occurring in a business. Then, together with other organizational members, the analyst pinpoints problems. Identifying objectives is also an important component of the first phase. The analyst first discovered what the business is trying to do. Then the analyst was able to see whether some aspect of information systems applications can help the business reach its objectives by addressing specific problems or opportunities.

#### ➤ 3.2 Analysis

It is a process of collecting factual data, understand the processes involved, identifying problems and recommending feasible suggestions for improving the system functioning. This involves studying the business processes, gathering operational data, understand the information flow, finding out bottlenecks and evolving solutions for overcoming the weaknesses of the system so as to achieve the organizational goals.

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System Analysis also includes subdividing of complex process involving the entire system, identification of data store and manual processes.

## ➤ 3.3 Design

It is the most crucial phase in the developments of a system. The logical system design arrived at as a result of systems analysis is converted into physical system design. Normally, the design proceeds in two stages:

- **Preliminary or General Design:**

In the preliminary or general design, the features of the new system are specified. The costs of implementing these features and the benefits to be derived are estimated. If the project is still considered to be feasible, we move to the detailed design stage.

- **Structured or Detailed Design:**

In the detailed design stage, computer oriented work begins in earliest. At this stage, the design of the system becomes more structured. Structure design is a blue print of a computer system solution to a given problem having the same components and inter-relationships among the same components as the original problem.

## ➤ 3.4 Implementation

After having the user acceptance of the new system which has developed, the implementation phase began. Implementation is the stage of a project during which theory is turned into practice. The major steps involved in this phase are:

- **Coding**

The system design needed to be implemented to make it a workable system. This demands the coding of design into computer understandable language example programming language. This is also called the programming phase in which the programmer converts the program specifications into computer instructions, which we refer to as programs. It is an important stage where the defined procedures are transformed into control specifications by the help of a computer language.

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- **Testing**

Before actually implementing the new system into operation, a test run of the system has done for removing the bugs, if any. It is an important phase of a successful system. After codifying the whole programs of the system, a test plan should be developed and run on a given set of test data. The output of the test run should match the expected results. Sometimes, system testing is using the test data following test run are carried out:

## **1. Program test**

When the programs coded, compiled and brought to working conditions, it was individually tested with the prepared test data. Any undesirable happening has been noted and debugged (error corrections).

## **2. System Test**

After carrying out the program test for each of the programs of the system and errors removed, then system test has done. At this stage the test has been done on actual data. The completed system has been executed on the actual data. At each stage of the execution, the results or output of the system was analysed. During the result analysis, was found that the outputs are not matching the expected output of the system. In such case, the errors in the particular programs has identified and fixed and further tested for the expected output.

## **➤ 3.5 Maintenance**

It is necessary to eliminate errors in the system during its working life and to tune the system to any variations in its working environments. It has been seen that there are always some errors found in the systems that has noted and corrected.

It also means the review of the system from time to time. The review of the system is done for:

- ✓ Knowing the full capabilities of the system

Knowing the required changes or the additional requirements

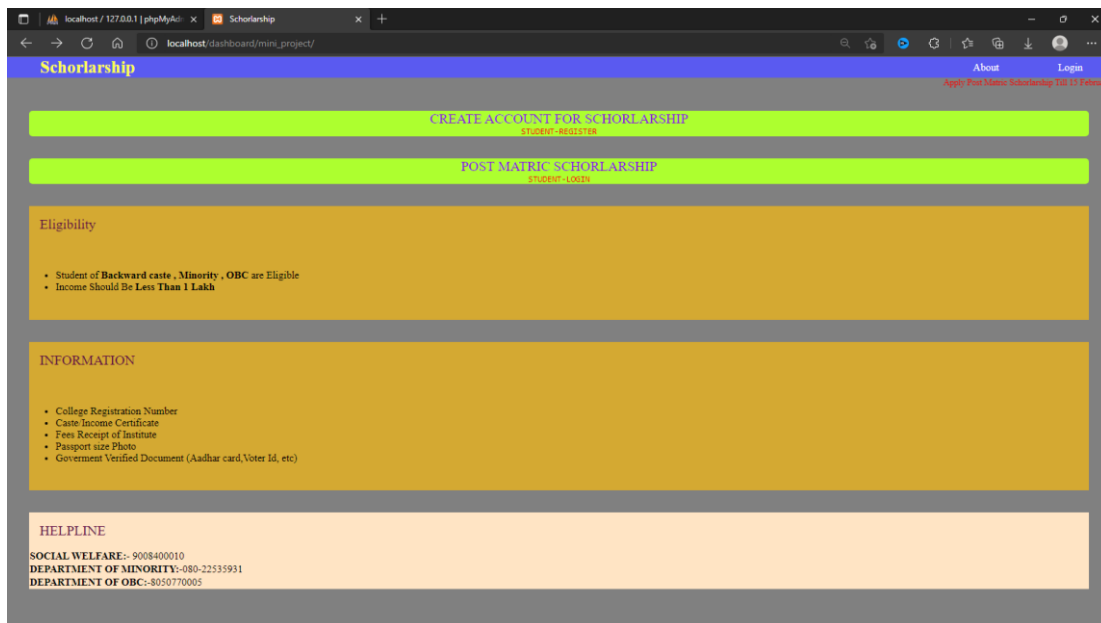
# SCHOLARSHIP MANAGEMENT SYSTEM

## CHAPTER NO.4

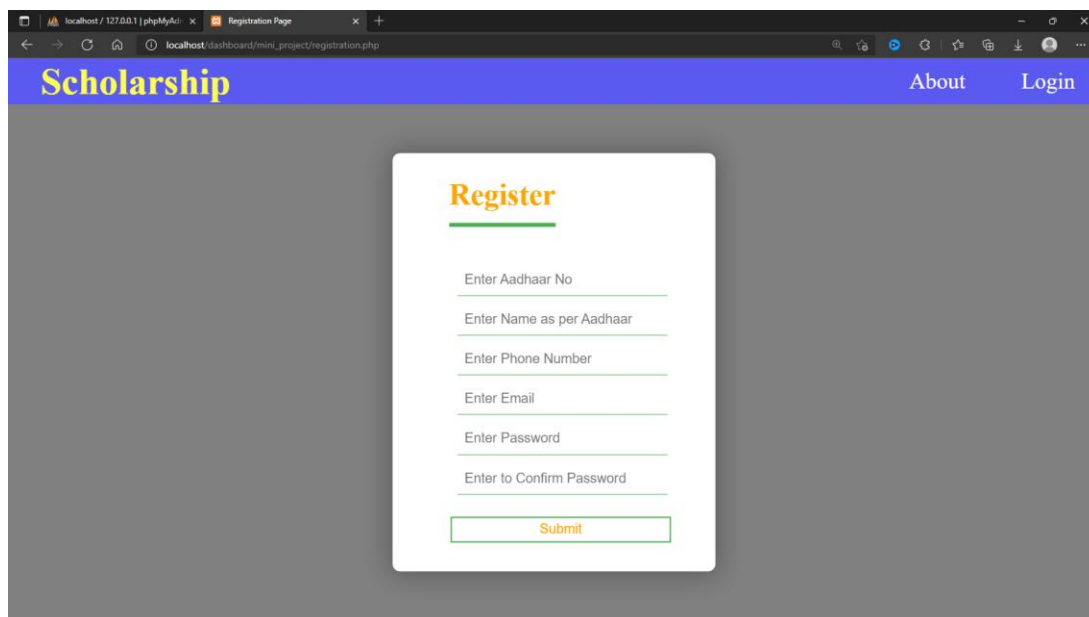
### 4. RESULTS:

#### ➤ 4.1 RESULT USER PAGE

##### INDEX PAGE



##### REGISTRATION PAGE



# SCHOLARSHIP MANAGEMENT SYSTEM

## LOGIN PAGE

The screenshot shows a web browser window with the URL `localhost/dashboard/mini_project/login.php`. The page has a blue header with the word "Scholarship" in yellow and links for "About" and "Registration". The main content area is gray and features a white login box. Inside the box, the word "Login" is written in orange. Below it are two input fields: "Enter your Email" and "Enter your Password". A green "Log in" button is at the bottom of the box. Below the button, there is a link that says "Not Registered ? Register".

## HOME PAGE

The screenshot shows a web browser window with the URL `localhost/dashboard/mini_project/home.php`. The page has a blue header with the word "Scholarship" in yellow and links for "About" and "Logout". The main content area is gray and features three large green circles. The first circle contains the text "Fill Scholarship form", the second contains "Scholarship Status", and the third contains "Acknowledgement".

# SCHOLARSHIP MANAGEMENT SYSTEM

## PERSONAL DETAILS PAGE

The screenshot shows a web browser window with the URL `localhost/dashboard/mini_project/personal.php`. The page has a blue header with the word "Scholarship" in yellow, and navigation links for "About", "Home", and "Logout". The main content area is a light gray background with a white rounded rectangle in the center titled "Personal Details". Inside this rectangle, there are several input fields: "Name", "Email", "Aadhaar Number", "Phone", "Address", "Select Gender" (a dropdown menu), "dd-mm-yyyy" (a date picker), "Select Category" (a dropdown menu), "Caste", "Annual Income", and "Do You Live in Hostel?" (a dropdown menu). Below these fields is a checkbox labeled "Verify details before going to Next Page" and a right-pointing arrow button.

## HOSTEL DETAILS PAGE

The screenshot shows a web browser window with the URL `localhost/dashboard/mini_project/hostel.php`. The page has a blue header with the word "Scholarship" in yellow, and navigation links for "About", "Home", and "Logout". The main content area is a light gray background with a white rounded rectangle in the center titled "Hostel Details". Inside this rectangle, there are several input fields: "Hostel Name", "Hostel Taluka", "Hostel District", and "Hostel Registration Number". Below these fields is a checkbox labeled "Verify details before going to Next Page" and a right-pointing arrow button.

# SCHOLARSHIP MANAGEMENT SYSTEM

## COLLEGE DETAILS PAGE

The screenshot shows a web browser window with the URL `localhost/dashboard/mini_project/college.php`. The page has a blue header with the word "Scholarship" in yellow and navigation links for "About", "Home", and "Logout". The main content area is a light gray rectangle containing a white rounded rectangle form titled "College Details". The form includes the following fields: USN, University Name, College Name, College Taluka, College District, Course, Seat Type, Which year are you studying?, Total Fees, Previous Studying Year, Previous Year Total Marks, and Previous Year Percentage. At the bottom of the form is a checkbox labeled "Verify details before going to Next Page" and a right-pointing arrow.

## BANK DETAILS PAGE

The screenshot shows a web browser window with the URL `localhost/dashboard/mini_project/bank.php`. The page has a blue header with the word "Scholarship" in yellow and navigation links for "About", "Home", and "Logout". The main content area is a light gray rectangle containing a white rounded rectangle form titled "Bank Details". The form includes the following fields: Name as per Passbook, Account Number, Account number again, Bank Name, Branch, Bank District, and IFSE code. At the bottom of the form is a checkbox labeled "Verify details before going to Next Page" and a right-pointing arrow.

# SCHOLARSHIP MANAGEMENT SYSTEM

## ATTACHMENT PAGE

**Attachment**

**Passport size photo :-**  
 No file chosen

**Aadhar card :-**  
 No file chosen

**Passbook:-**  
 No file chosen

**Caste/Income Certificate:-**  
 No file chosen

**Fees Receipt:-**  
 No file chosen

**Last semester/year marks card:-**  
 No file chosen

**Hostel Fees Receipt:-**  
 No file chosen

→

## PREVIEW PAGE

**Personal Details**

Name	hi
Email	hi@gmail.com
Aadhaar Number	255123645789
Phone	1234567891
Address	belagavi
Gender	male
Date of Birth	2000-02-10
Caste	hindsu
Annual Income	100000



# SCHOLARSHIP MANAGEMENT SYSTEM

## ACKNOWLEDGEMENT PAGE

GOVERNMENT OF KARNATAKA

Scholarship Acknowledgement

Name	hi
E-mail	hi@gmail.com
Mobile No.	1234567891
Gender	male
DOB	2000-02-10
Address	belagavi
Category	cat1
Caste	hindu
Income	100000
USN	2JR19C5003
University	VTU
College Name	JCER
College Taluka	belagavi
College District	belagavi
Course	CSE
Seat Type	CET
Present Year	4
Fees	90000
Previous Year	3
Marks	1500
Percentage	87
Scholarship-Type	College and Hostel Scholarship

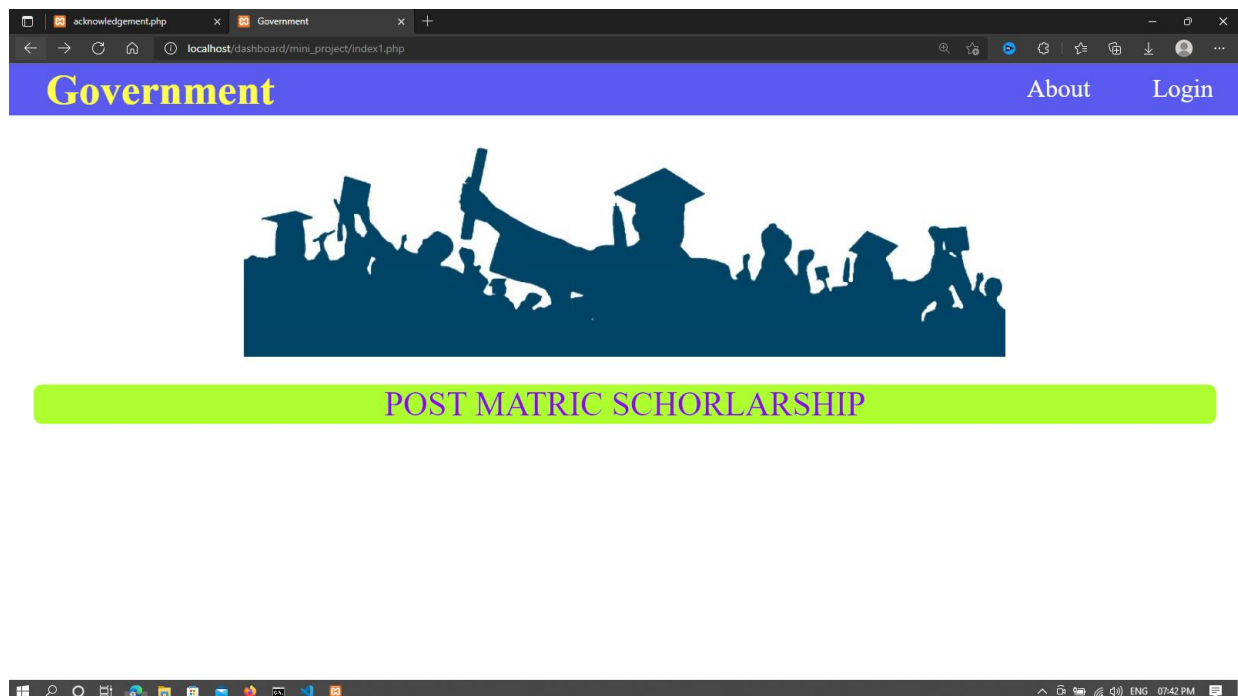
  

Hostel Name	ABC
Hostel Taluka	Belagavi
Hostel District	Belagavi
Hostel Registration Number	hi1343

Principal

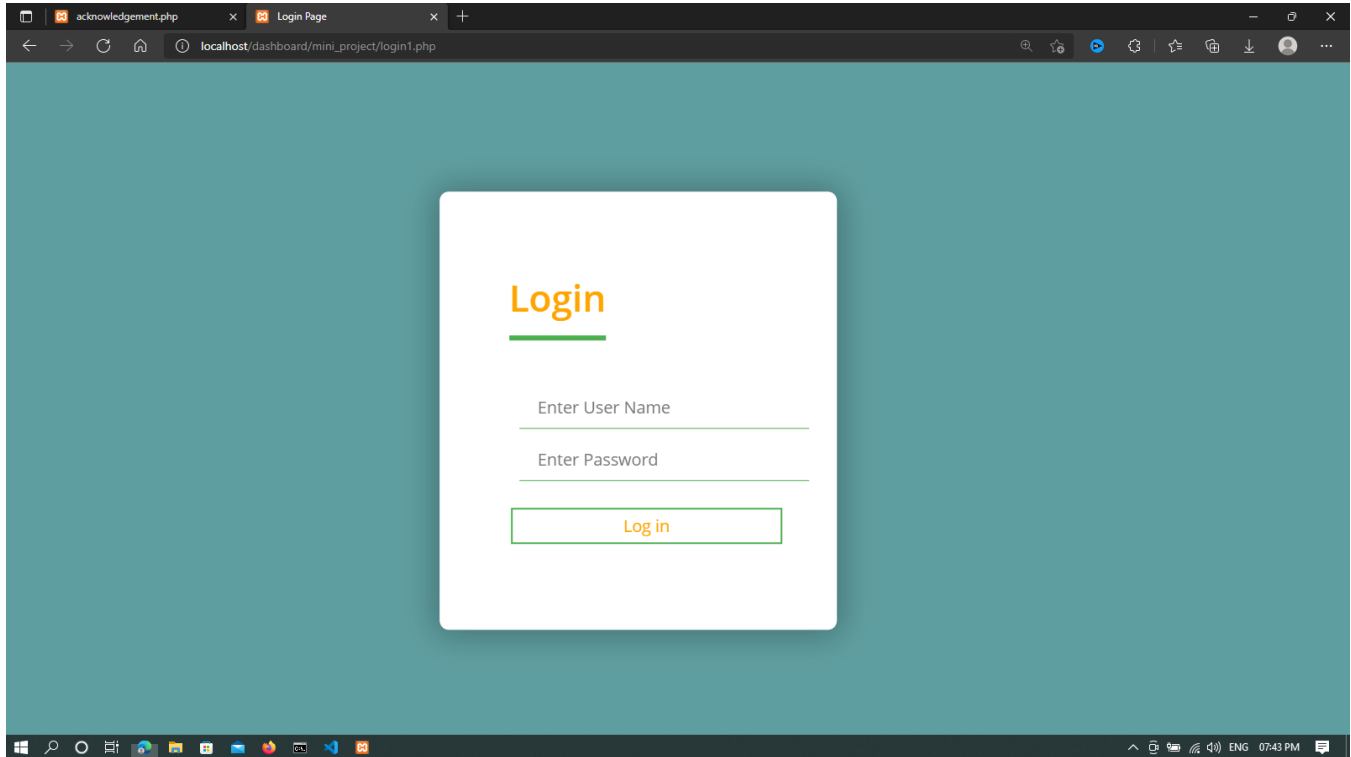
## ➤ 4.2 RESULT GOVERNMENT PAGE

### INDEX PAGE



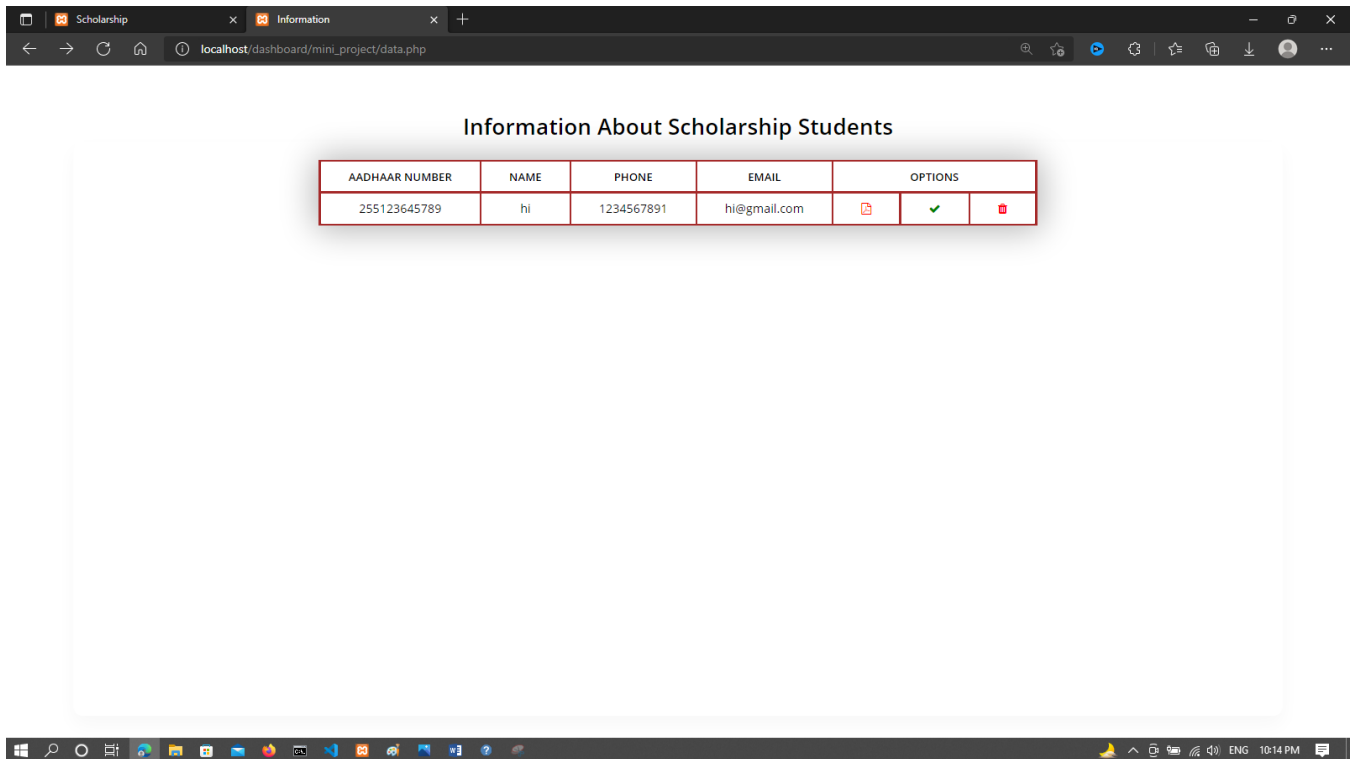
# SCHOLARSHIP MANAGEMENT SYSTEM

## LOGIN PAGE






The screenshot shows a web browser window with the URL `localhost/dashboard/mini_project/login1.php`. The page has a teal background. In the center, there is a white login card. The card contains the word "Login" in orange, followed by two input fields labeled "Enter User Name" and "Enter Password". Below these fields is a green "Log in" button.

## DATA PAGE



The screenshot shows a web browser window with the URL `localhost/dashboard/mini_project/data.php`. The page has a white background. At the top, there is a heading "Information About Scholarship Students". Below this heading is a table with the following data:

AADHAAR NUMBER	NAME	PHONE	EMAIL	OPTIONS		
255123645789	hi	1234567891	hi@gmail.com			


# SCHOLARSHIP MANAGEMENT SYSTEM

## VIEW PAGE

acknowledgement.php x view.php

localhost/dashboard/mini\_project/view.php?aadhaar=255123645789

1 of 3

Photo	
Name	hi
E-mail	hi@gmail.com
Mobile No.	1234567891
Gender	male
DOB	2000-02-10
Address	belagavi
Category	cat1
Caste	hindu
Income	100000
USN	2JR19CS003
University	VTU
College Name	JCER
College Taluka	belagavi
College District	belagavi
Course	CSE
Seat Type	CET
Present Year	4
Fees	90000
Previous Year	3
Marks	1500
Percentage	87
Scholarship-Type	College and Hostel Scholarship
Hostel Name	ABC
Hostel Taluka	Belagavi

## CHAPTER NO.5

### ➤ 5.1 CONCLUSION:

Scholarship management system is actually software which can handle the essential data and save the data. This software helps to manage the Scholarship process. Students can send scholarship details easily and check the status of the scholarship. Administrator can check details and sanction amount easily. It works as per the requirement of the user and have options accordingly. It allows student to fill the form as well as to check sanctioned amount in their account. This software also has ability to print acknowledgement. The main purpose is effectively and easily handling of Scholarship data.

### ➤ 5.2References:

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