**Project Management System**

A project submitted to

**UKA TARSADIA UNIVERSITY**

in partial fulfilment of the requirements

for the degree of

*Bachelors of Science in Information Technology*

for 5th Semester

2024-25

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**December 2024**

**CERTIFICATE**

This is to certify that the project report entitled **“Project Management System”** has been carried out by Vivek Rakholiya (202206100110053)**,** Meet Ghasadiya (202206100110055),Om Kachhadiya (202206100110116) and Prince Vasoya (202206100110117) under my guidance in partial fulfillment of the requirement for the **Bachelors of Science in Information Technology** during the academic year 2024-25.

**Date: 28-11-2024**

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**BABU MADHAV INSTITUTE OF**

**INFORMATION TECHNOLOGY**

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**Chapter 1: Introduction**

* 1. **Problem Definition**

The Project Management System (PMS) helps to manage, submit, and coordinate 5th and 7th semesters projects at BMIIT. It makes project management easier, improves communication among everyone involved, and offers up-to-date information and reports.

* 1. **Project Purpose**

It is made to reduce the manual workload for Admin and faculty which could help to manage valuable time.

* 1. **Project Scope**

Our Project Management System scope is only for Babu Madhav Institute of Information Technology.

**Chapter 2: Overall Description**

**2.1** **Product Perspective/Environment Description**

The main goal of this project is to build an integrated environment to handle all project activities. Project management system system is a system for management,tracking and supervison of students semester projects.

**2.1.1 Hardware Interface/ Hardware Specification**

Processor : Intel(R) Core(TM) i5 – 10300H

Clock Speed : 2.50GHz

System Bus : 64-bit Operating System , x64 – based processor

RAM : 8GB

**2.1.2 Software Interface/ Software Specification**

* Technology used
  + Frontend : HTML
  + Backend : MYSQL,PHP
  + Scripting Language :
    - Javascript
    - CSS
    - Bootstrap
  + Other Tools :
    - NetBeans

**Chapter 3: System Specific Requirements**

**3.1 Functional Requirements**

* Manage User Registration

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **FR1** | Admin shall be able to Registration of student and Faculty with bulk insertion and individually. | Registration page |

* Manage User Login

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **FR1** | Students, Faculty, Admin will be able to login into the system using their Id and Password. | Log in page |
| **FR2** | If a user forgets the password, then OTP is sent through the Email for the user’s verification. | Forgot Password Page |

* Manage User Profile

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **FR1** | Students, Faculty, Admin can see their profile. | User profile page |
| **FR2** | All Registered user can edit/update their profile. | User profile page |
| **FR3** | All registered user can change the password. | change password page |

* Manage Faculty

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **FR1** | Admin will be able to manage register faculties into the system.   * Add new Faculties * Active/Deactive Faculties | Admin page |

* Manage Student

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **FR1** | Admin will be able to manage student detail.   * Add new Student * Active/Deactive Student | Admin Page |

* Manage Student Group

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **FR1** | Students shall be able to make their own group by adding other students as the partner in the group. The system checks the pre-conditions for final submission or final entry : Students will be only available in one group not more than one.  If any rejection happen, Students need to edit group or project information or create a new group with all needed information.  The system will assign a unique id (project id) to each project groups. | Student Page |

* Manage Guide

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **FR1** | System will be able to assign guide to the project groups. | Assign guide Page |
| **FR2** | A guide can view the details of the group under him/her in different ways :-   1. groups under their guidance 2. student under their guidance | Project page |
| **FR3** | Manage allocated project group | Guide Page |
| **FR4** | Admin will be able to change the guide. | Assign guide page. |

* Manage Project

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **FR1** | The students will be viewing the approved or rejected projects by admin.  If there are two similar projects, the admin will accept project based on first come first serve  Project title will be confirmed or rejected by project head. | ViewProject: Faculty Login |

* Manage Evaluation

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **FR1** | The Admin will be able to form panels.  The system assigned unique key (panel id) to each panel. | Evaluation Page: Admin Login |
| **FR2** | Panel Members will be able to view the evaluation criteria. | View Evaluation Page |
| **FR3** | The Admin will be able to create a Presentation Evaluation | Create Evaluation Page: Admin Login |

* Mange Panel

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **FR1** | The Admin will be able to form panels.  The system assigned unique key (panel id) to each panel**.** | Add Panel Page : Faculty Login |
| **FR2** | The Admin will be able to assign faculties and projects group to the panel. | View assign Projects  : faculty login |

* Student Marks

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **FR1** | The Faculty will be able to view projects and assign marks individually to the student. | View Project Page: Faculty Login |
| **FR2** | Students will be able to view assigned marks | View Evaluation Page: Student Login |

* Manage Submission

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **FR1** | The Admin will be able to create a submission with the deadline. | Create a submission page :Faculty Login |
| **FR2** | Guides and students should be able to view Submission. | Create a submission page :Faculty Login  : Guide |
| **FR3** | After submitting the student's task, the guide can give response to the students group under their guidance. | Feedback Page |

* Manage Reports

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **FR1** | Admin, panel member as well as faculties, can able to generate reports like:   * Details of projects as semester wise Student groups with their allocated guide * Number of student groups under each guide * Examiner wise (faculty wise) evaluation sheet   Final evaluated sheet of the project in a sorted form (enrollment-wise) | Report Page |
| **FR2** | Admin,Faculty and students can export reports in different formats such as pdf, excel, etc. | Report Page |

**3.2 Non- Functional Requirements**

|  |  |  |
| --- | --- | --- |
| **RN** | **Description** | **Comment** |
| **NFR1** | Help and support menu available on all interfaces. | Usability |
| **NFR2** | Only authorized users can access the system. passwords must be at least eight characters long.  A password authentication form will be stored to prevent unauthorized access. | Security |
| **NFR3** | The system should be easy to update and maintain. | Maintainability |
| **NFR4** | Strong input validation process. | Error Handling |
| **NFR5** | The application can be easily tested by providing various input to check the models. | Testability |

**Chapter 4: System Analysis**

**4.1 Use Case Diagrams**

(Provide a diagram to illustrate how users interact with the system.)

**4.2 Activity Diagrams**

(Include an activity diagram that outlines the flow of activities within the system.)

**Chapter 5: System Design**

**5.1 System Design** (Describes the database structure.)

**5.1.1 Data Dictionary** (List all database entities, attributes, and their descriptions.)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No** | **Field Name** | **Datatype** | **Size** | **Constraint** | **Description** |
|  |  |  |  |  |  |

**Chapter 6: System Implementation**

**6.1 Screenshots**

(Include relevant screenshots that demonstrate the system's interfaces and functionalities.)

**Chapter 7: Testing**

**7.1 Test cases**

(List the test cases, describing inputs, expected outputs, and actual outputs.)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Inputs** | **Expected Output** | **Actual Output** | **Status** |
| **TC1** | Verify Login Functionality | Username: testuser Password: Test@1234 | User is redirected to the dashboard | User is redirected to the dashboard | Pass |

**Chapter 8: Future Enhancement**

(Describe potential future improvements, scalability options, or new features to be added.)

**Chapter 9: Conclusion**

(Summarize the key points of the project and highlight the achievements.)

**Chapter 10: Bibliography**

(List all sources, references, and materials used during the project.)