



**PROF. V. B. SHAH INSTITUTE OF MANAGEMENT,
R. V. PATEL COLLEGE OF COMMERCE (ENG. MED.),
V. L. SHAH COLLEGE OF COMMERCE (GUJ. MED.) &
SUTEX BANK COLLEGE OF COMPUTER APPLICATIONS & SCIENCE**

Managed by Jivan Jyot Trust, Amroli.

All Colleges are Affiliated to Veer Narmad South Gujarat University, Surat.

Self Financed B.B.A. - B.Com. (Eng. & Guj. Med.) - B.C.A & B.Sc. Data Science Degree Programme

Accredited by National Assessment and Accreditation Council with "B" Grade

Prin. Dr. Mukesh R. Goyani

M.Com., M.Ed., M.Phil., GSET, Ph.D.
Senate Member, VNSGU, Surat

At & Po. : Amroli, Surat,
Pin. 394107, Gujarat (India)

www.amrolicollege.ac.in

(0261) 2494073, 2495643, 2496478

9427113947, 6354626492

principal@amrolicollege.ac.in
Principal_230@vnsru.ac.in

**PROJECT REPORT
ON
Project Management System
AS A PARTIAL REQUIREMENT FOR THE DEGREE
OF
BACHELOR OF COMPUTER APPLICATION
(B.C.A.)**

: SUBMITTED BY :

301	4871	Archi Patel
306	4682	Alvi Kadivar
315	4526	Vaibhavi Chotaliya
308	4868	Rinkal Paramar
324	4908	Disha Rabari
302	4624	Sneha Ghugharaliya

: GUIDED BY :

Ms. Aayushi S. Suratwala



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✉ principal@amrolicollege.ac.in
Principal_230@vnsbu.ac.in

Bachelor of Computer Application

Project Certificate

This is to certify that the project titled "**PROJECT MANAGEMENT SYSTEM**" is the bonafide work carried out by **ARCHI PRAFULBHAI PATEL(4871), ALVI VINODBHAI KADIVAR(4682), VAIBHAVI VINODBHAI CHOTALIYA(4526), RINKALBEN JAYAVANTBHAI PARMAR(4868), DISHA BHARMALBHAI RABARI(4908), SNEHA ARVINDBHAI GHUGHARALIYA(4624)**, students of TYBCA Sem- VI of Sutex Bank College of Computer Applications and Science, Amroli, (Surat) affiliated to Veer Narmad South Gujarat University. They have successfully completed their project work in partial fulfillment of the requirements for the award of the degree of "Bachelor of Computer Application" during the academic year 2024-25. And that the project has not formed the basis for the award previously of any other degree, diploma, fellowship or any other similar title.

Group No. 19

Internal Guide : MS. AAYUSHI S. SURATWALA

Signature :

Date : 11/4/25



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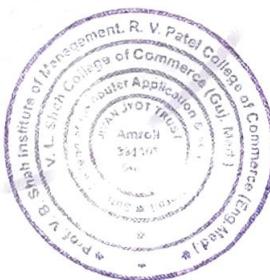
Ms. Aayushi S. Suratwala

Internal Guide :

Aayushi

Signature :

Date : 11/4/25



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goyani

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Ms. Aayushi S. Suratwala

Internal Guide : _____

Signature : Aayushi

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Principal

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Principal_230@vnsgu.ac.in

www.amrolicollege.ac.in

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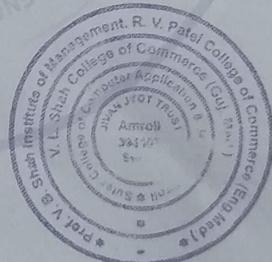
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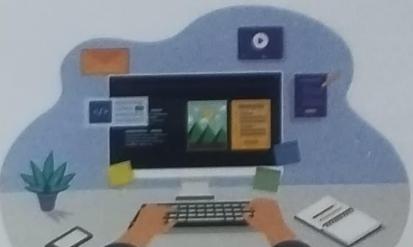
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Internal Guide :

Signature :

Date :

1/4/25



Dr. Mukesh R. Goyani
Principal

External Examiner :



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1. Introduction

- 1.1 College Profile
- 1.2 Project description
- 1.3 Project Profile

1. Introduction

1.1 College Profile

Prof. V. B. Shah Institute of Management, R. V. Patel College of Commerce (English Medium), V. L. Shah College of Commerce (Gujarati Medium) & Sutex Bank College of Computer Applications & Science are Self - Financed colleges affiliated to the Veer Narmad South Gujarat University, Surat. Prof. V. B. Shah Institute was started in the year 1998 with a view to churn out management professionals. A progressive academic record has been maintained in this regard. The R. V. Patel College of Commerce which was started in the year 2001 offers the B.Com. degree programme in English Medium whereas the V. L. Shah college of Commerce started in the year 2006 offers the B.Com. degree programme in Gujarati Medium. Sutex Bank College of Computer Applications & Science started in the year 2000 offers the B.C.A. degree programme, with the onset of the 21st century, there has been tremendous advancement in science and technology.

The entire academic year is replete with academic, extra & co-curricular activities, sporting events, guest lectures, Industrial Visit, Educational tour, seminars and workshops. A significant goodwill has been created by the institute among its stakeholders. The teaching - learning process is totally student centered; thereby interactive and experiential learning.

The institute is proud to have a qualified, competent and an industrious staff. They assist the students in unleashing their talents and exhibiting their skills. The perspective institutional plan is collectively chalked out by the I/c Principal, members of the managing trust (Jivan Jyot Trust, Amroli), the faculty

members as well as the administrative staff. Industrial visits and practical tasks help the students a great deal in supplementing their learning. Students are also given ample of scope to sharpen their entrepreneurial skills.



The institute takes pride in stating that it focuses on the optimal use of resources available and takes all the measures for quality enhancement and quality sustenance.

1.2 Project Description

- A Project Management System (PMS) is a web-based application designed to streamline project handling, task allocation, and team collaboration.
- It provides a structured framework that connects Admins, Clients, Teamleader, Developers, and Testers, ensuring effective communication and efficient project execution.
- By automating workflows and tracking progress, PMS enhances productivity, minimizes errors, and helps complete projects on schedule.
- The main purpose of PMS is to offer a unified platform where users can efficiently plan, execute, and monitor projects.
- The system reduces manual efforts, ensures transparency, and facilitates real-time project tracking. With well-defined roles and access control, each user can focus on their specific responsibilities, leading to improved efficiency and accountability.

1) Admin Panel Features:

- ✓ Login
- ✓ Manage Language and Database.
- ✓ Manage User Roles (Clients, Teamleader, Developers, Testers)
- ✓ Approve Pending Projects
- ✓ View Bugs, Client feedback.
- ✓ Generate Reports

2) Client Panel :

- ✓ Login
- ✓ Update Password/Profile
- ✓ View Project Progress
- ✓ Communicate with Admin (Feedback)

3) Teamleader Panel

- ✓ Login
- ✓ View assign Tasks
- ✓ Monitor Task Progress
- ✓ Communicate with Team Members
- ✓ Bug Tracking & Resolution

4) Developer Panel Features:

- ✓ Login
- ✓ View assign Tasks
- ✓ Monitor Task Progress
- ✓ Communicate with Team Members
- ✓ Bug Tracking & Resolution

5) Tester Panel Features:

- ✓ Login
- ✓ Test Assigned Tasks
- ✓ Communicate with Team Members
- ✓ Report Bugs
- ✓ Verify Bug Fixes
- ✓ Approve Completed Task

1.3 Project Profile

Project Profile	Description
Project name	Project Management System
Organization	Sutex Bank College Of computer Applications And Science,Amroli
Backend Technology	PHP,AJAX
Frontend Technology	HTML,CSS,Bootstrap4,Javascript
Database	MySql
Operating System	Window 10
Documentation Tool	Microsoft Word
Browser	Chrome,Opera,Edge
Internal Guide	Asst.Prof.Ms.Aayushi Suratwala
Submitted To	
Developed By	Archi Patel Disha Rabari Sneha Ramani Alvi Kadivar Rinkal Parmar Vaibhavi Chotaliya

2. Environment Description

- 2.1 Hardware and Software Requirements
- 2.2 Technologies Used

2. Environment Description

2.1 Hardware and Software Requirements

Hardware Configuration	
Component	Specification
Processor	Intel Core i3
RAM	2 GB (Development), 2-3 GB (Run Time)
Storage	Minimum 2-4 GB SSD
Internet	Required for real-time collaboration
Devices	PC/Laptop with Windows 10 or 11

Software Configuration	
Component	Specification
Frontend	HTML,CSS,Bootstrap4,Javascript
Backend	PHP,AJAX
Database	MySQL for Data storage and management
Version Control	GitHub for version control and collaboration
Operating System	Windows 10, Windows 11

2.2 Technologies Used

1. HTML

What is HTML ?

- HTML stands for Hyper Text Markup Language
- HTML is the standard markup language for creating Web pages
- HTML describes the structure of a Web page
- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.



Features:

- ✓ Building static and dynamic web pages.
- ✓ Creating email templates for marketing.
- ✓ Developing web applications with JavaScript and frameworks.
- ✓ Designing interactive forms for user input.
- ✓ Structuring blogs, articles, and documentation.

2. CSS

What is CSS ?

- CSS stands for Cascading Style Sheets
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files



CSS has three types:

- ✓ **Internal cascading style sheet:**
In which code of style is embedded into html source code.
- ✓ **External cascading style sheet:**
In which code is kept external file.
- ✓ **Inline cascading style sheet:**
In which tag of style is embedded into html tag code

3. Bootstrap4

What is Bootstrp ?

- Bootstrap is a free front-end framework for faster and easier web development
- Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins
- Bootstrap also gives you the ability to easily create responsive designs



Features:

- ✓ **Easy to use:** Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
- ✓ **Responsive features:** Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
- ✓ **Mobile-first approach:** In Bootstrap, mobile-first styles are part of the core framework
- ✓ **Browser compatibility:** Bootstrap 4 is compatible with all modern browsers (Chrome, Firefox, Internet Explorer 10+, Edge, Safari, and Opera)

4. Javascript

What is Javascript ?

- JavaScript is a powerful scripting language that adds interactivity to web applications.
- It can update and change both HTML and CSS.
- It allows developers to implement features like form validation, animations, dynamic content updates, and event handling.

JavaScript



Features :

- ✓ Light Weight Scripting language
- ✓ Dynamic Typing
- ✓ Platform Independent
- ✓ Async Processing
- ✓ Client-Side Validation
- ✓ Backend Development

5. Jquery :

What is Jquery ?

- jQuery is a lightweight, "write less, do more", JavaScript library.
- The purpose of jQuery is to make it much easier to use JavaScript on your website.
- jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.
- jQuery also simplifies a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.



6. AJAX :

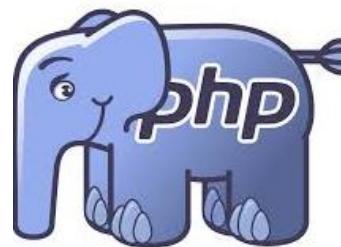
What is AJAX ?

- AJAX = Asynchronous JavaScript And XML.
- AJAX is not a programming language.
- AJAX just uses a combination of:
- A browser built-in XMLHttpRequest object (to request data from a web server).
- JavaScript and HTML DOM (to display or use the data).
- AJAX allows web pages to be updated asynchronously by exchanging data with a web server behind the scenes. This means that it is possible to update parts of a web page, without reloading the whole page.

7. PHP

What is PHP ?

- PHP is an acronym for "PHP: Hypertext Preprocessor"
- PHP is a widely-used, open source scripting language
- PHP scripts are executed on the server
- PHP is free to download and use
- PHP runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)
- PHP is compatible with almost all servers used today (Apache, IIS, etc.)
- PHP supports a wide range of databases



Fetures :

- ✓ PHP can generate dynamic page content
- ✓ PHP can create, open, read, write, delete, and close files on the server
- ✓ PHP can collect form data
- ✓ PHP can send and receive cookies
- ✓ PHP can add, delete, modify data in your database
- ✓ PHP can be used to control user-access
- ✓ PHP can encrypt data

8. MySQL

- MySQL is a relational database management system
- MySQL is open-source
- MySQL is free
- MySQL is ideal for both small and large applications
- MySQL is very fast, reliable, scalable, and easy to use
- MySQL is cross-platform
- MySQL is compliant with the ANSI SQL standard
- MySQL was first released in 1995
- MySQL is developed, distributed, and supported by Oracle Corporation



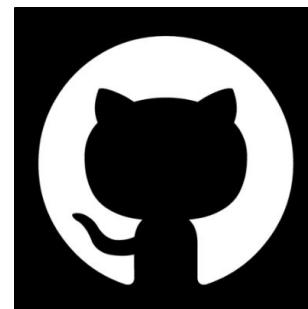
9. Xampp :

- XAMPP is a free and open-source software package that provides a local server environment for web development.
- It includes Apache (web server), MySQL (database), PHP, and Perl, making it easy to run dynamic websites locally.
- XAMPP is widely used by developers for testing and deploying PHP-based applications.
- It simplifies the process of setting up a local server without needing separate installations.
- Available for Windows, macOS, and Linux, XAMPP is lightweight and easy to configure.



10. GitHub

- GitHub is a cloud-based platform for version control and collaborative development.
- It allows multiple developers to work on a project simultaneously while keeping track of changes using Git. Developers can create repositories, branch out features, merge code updates, and resolve conflicts efficiently.
- GitHub also enables code review, issue tracking, and project management, making it a valuable tool for software development teams.
- By providing a centralized repository, GitHub ensures code security, version history tracking, and seamless collaboration, contributing to the overall efficiency of project development.



3. System Analysis and Planing

- 3.1 Existing System and its Drawbacks
- 3.2 Feasibility Study
- 3.3 Requirement Gathering and Analysis

3. System Analysis and Planning

3.1 Existing System and its Drawbacks

- ✓ **Centralized Project Management** – The PMS provides a unified platform for handling multiple projects, ensuring smooth execution from initiation to completion.
- ✓ **Role-Based Access Control** – Different roles such as Admin, Client, Teamleader, Developer, and Tester have specific permissions to ensure secure and structured management.
- ✓ **Automated Task Assignment & Tracking** – Admin can assign tasks to teamleaders , while real-time tracking allows for monitoring progress and deadlines.
- ✓ **Integrated Messaging System** – A built-in chat feature enables seamless communication among team members.
- ✓ **Bug Tracking & Issue Management** – Developers and testers can report, track, and resolve bugs efficiently within the system, improving overall software quality.
- ✓ **Scalability & Future Enhancements** – The PMS is designed for scalability, with potential future upgrades like AI-driven task allocation, advanced analytics, and mobile support.
- ✓ **Improved Collaboration & Efficiency** – By automating workflows and integrating essential tools, the PMS enhances productivity, minimizes errors, and streamlines project management.

Drawbacks of the Existing System:

- **Time-Consuming Project Management:**

- In manual systems, project managers had to update task progress manually, leading to delays.
- Tracking multiple projects without automation made task management inefficient.

- **Communication Gaps:**

- ✓ Important discussions between Admin, Client, and Team Leader must happen through external channels, causing delays.
- ✓ Without direct messaging, approvals, project changes, and issue resolutions take longer.
- ✓ Team Leaders may not fully understand client requirements or admin instructions, leading to misalignment.

- **Lack of Urgent Alerts:**

- ✓ Without a notification system, users must manually check for updates, leading to delayed task execution and missed approvals or deadlines.
- ✓ This results in inefficient communication, as team members need to constantly refresh modules for updates.
- ✓ Additionally, bug tracking and approvals face delays, and the lack of urgent alerts causes mismanagement.
- ✓ Overall, this increases manual effort and reduces system efficiency.

- **Bug Tracking Challenges:**

- ✓ In manual systems, reporting and fixing bugs took longer due to lack of a structured bug-tracking mechanism.
- ✓ Testers struggled to track issue resolutions, often leading to repeated errors in the system.

- **Data Management & Security Risks:**

- ✓ Storing project data in multiple spreadsheets or documents increased the risk of data loss.
- ✓ No proper backup or version control existed, making data recovery difficult.

3.2 Feasibility Study

The feasibility study assesses whether the Project Management System (PMS) is viable from a technical, operational, and financial perspective. This evaluation ensures that the proposed system can be successfully developed, deployed, and sustained efficiently.

1. Technical Feasibility

The PMS is technically feasible as it is built using reliable and scalable technologies:

- **PHP** – A widely used server-side scripting language that ensures efficient backend operations, user authentication, and database connectivity.
- **JavaScript (AJAX & jQuery)** – Enhances interactivity by providing real-time data updates and smooth UI transitions without page reloads.
- MySQL – A robust relational database management system (RDBMS) that securely stores project data and supports efficient queries.
- **Bootstrap & CSS** – Ensures a responsive and visually appealing interface, making the system user-friendly on various devices.
- **GitHub** – Used for version control and collaboration, ensuring code integrity and easy updates.

The use of these technologies ensures that the PMS can handle multiple users, process large amounts of data, and provide a seamless experience for project management.

2. Operational Feasibility

The PMS significantly improves project management efficiency for administrators, project managers, developers, and testers:

➤ **For Administrators:**

- ✓ A centralized system to manage users, projects, and roles.
- ✓ Complete control over system access and approvals.
- ✓ For Project Managers:
 - ✓ Efficient task assignment and team coordination.
 - ✓ Real-time project tracking and status updates.

➤ **For Developers & Testers:**

- ✓ Organized task management with clear deadlines.
- ✓ Issue tracking and bug resolution for enhanced project quality.
- ✓ The PMS streamlines communication, minimizes manual errors, and optimizes workflow, ensuring high adoption and usability among project teams.
- ✓

3. Economic Feasibility

Low-cost development with open-source technologies (PHP, MySQL, etc.).

Minimal maintenance costs due to automation.

Reduces manual effort, saving operational costs.

Scalable model, making it a cost-effective long-term solution.

4. Schedule Feasibility

- Predefined modules (Login, Database, Project Tracking, etc.) speed up development.
- Agile development methodologies ensure smooth progress tracking.
- Efficient resource allocation minimizes delays.
- Well-structured workflow ensures timely project completion.

5. Management Feasibility

- Clearly defined roles and responsibilities for Admin, Project Managers, Developers, and Testers.
- Efficient task allocation system ensures balanced workloads.
- Project tracking and status updates help management monitor progress.
- Scalable management structure allows for future expansions.
- Decision-making support through real-time reports and analytics.
- Minimized managerial workload by automating routine project operations.

3.3 Requirement Gathering and Analysis

Requirement gathering and analysis is a crucial phase in the development of the Project Management System (PMS). It ensures that the system is designed based on the actual needs of the users, providing a clear understanding of the functionalities, modules, and workflows required.

There are two key reasons for gathering and analyzing requirements:

- It helps in designing and making informed decisions to create an efficient system.
- It provides a reference for testing to ensure the implemented system meets expectations.

Without proper requirement gathering, the development process may result in an inefficient system with missing functionalities. Through this phase, we can define the system's features, modules, and overall functionality.

Key Questions Addressed During Requirement Gathering:

- ✓ How will projects be managed within the system?
- ✓ What roles and permissions should be included (Admin, Client, Project Manager, Developer, Tester)?
- ✓ How will users log in, log out, and manage their profiles?
- ✓ How will project approvals, task assignments, and updates be handled?
- ✓ How will bug tracking and issue resolution be managed?
- ✓ How will communication between different roles be structured?
- ✓ What database structure is required to store project-related information?
- ✓ How many users will interact with the system, and what will be their access levels?

After analyzing the gathered requirements, we have identified the following key system functionalities:

Common Module Features :

- ✓ User Authentication
- ✓ Update password
- ✓ Real-Time Messaging(Between Team Members)
- ✓ Profile Management
- ✓ Role-Based Access Control

Module 1: Admin

- ✓ Manage language and database.
- ✓ Manage user roles and permissions.
- ✓ Approve Pending project requests.
- ✓ View project progress & status , bugs, client feedback
- ✓ Oversee task assignments and project completion.

Module 2: Client

- ✓ Login with valid Email and Password.
- ✓ Update Password/Profile.
- ✓ View project progress and status updates.
- ✓ Feedback to the admin
- ✓ Make payment after project completion.

Module 3: Teamleader

- ✓ Monitor project progress and deadlines.
- ✓ Send message for any query.
- ✓ View project progress and status updates.
- ✓ Track issue resolutions and project updates.

Module 4: Developer

- ✓ Work on assigned tasks and update progress.
- ✓ View project progress and status updates
- ✓ Send message for any query.
- ✓ Track issue resolutions and project updates

Module 5: Tester

- ✓ Update status.
- ✓ Test completed tasks and report bugs.
- ✓ Send message for any query.
- ✓ Approve bug-free tasks before final submission.

4. Proposed System

4.1 Scope

4.2 Project Module

4.3 Module wise objectives/functionalities
Constraints

4.4 Expected Advantages

4. Proposed System

4.1 Scope

The Project Management System (PMS) is created to make project planning, task assignment, and tracking easier and more efficient.

It helps teams work together in an organized way by providing a clear structure for managing different project activities.

- **Centralized Project Management** : Keeps all project details, tasks, and progress in one place.
- **Role-Based Access** : Assigns specific roles to Admins, Clients, Project Managers, Developers, and Testers.
- **Approval Workflow** : Ensures structured project validation.
- **Real-Time Messaging** : A built-in chat feature enables seamless communication among team members.
- **Task and Approval Automation** : Reduces manual work by automating assignments and approvals. Assigns tasks, sets deadlines, and tracks progress.
- **Bug Tracking System** : Helps testers report and developers fix issues efficiently.
- **Keeps project data safe and organized**, using a secure database to store important information.

4.2 Project Module

- 1) Admin
- 2) Client
- 3) Teamleader
- 4) Developer
- 5) Tester

4.3 Module Wise Objectives/Functionalities Constraints

The Project Management System (PMS) consists of multiple modules, each handling specific functionalities to ensure smooth project execution and collaboration.

These modules help different users manage their tasks efficiently while improving workflow automation.

1) Admin Module

- ✓ Admin can login using email & password.
- ✓ Admin can add and modify the language and database information.
- ✓ Admin can check all language and database information.
- ✓ Admin can add and modify the client and team members information.
- ✓ Admin can check all client's and team members information.
- ✓ Admin can approved pending client projects.
- ✓ Admin can manages project approvals, deadlines.
- ✓ Admin can view project status.
- ✓ Admin can view bugs.
- ✓ Admin can view client feedback.

2) Client Module

- ✓ Client can login using email and password.
- ✓ Client can update own password.
- ✓ Client can update own profile.
- ✓ Client can view project status.

- ✓ Client can send feedback to the admin.
- ✓ Client can make payment after compilation of project.
- ✓ Client can download the receipt in many formats.

3) Teamleader Module

- ✓ Teamleader can view all the assign projects.
- ✓ Teamleader can view project status.
- ✓ Teamleader can view assign developers for the particular project.
- ✓ Teamleader can send messages to team members.
- ✓ Teamleader can view available bugs.
- ✓ Teamleader can fix this bugs and remove.

4) Developer Module

- ✓ Developer can view all the assign projects.
- ✓ Developer can view project status.
- ✓ Developer can view assign other developers for the particular project.
- ✓ Developer can send messages to team members.
- ✓ Developer can view available bugs.
- ✓ Developer can fix this bugs and remove.

5) Tester Module

- ✓ Tester can view all the assign task.
- ✓ Tester can update the project status.
- ✓ Tester can add/remove bugs if exist in project.
- ✓ Tester can view assign teamleader and developers for the particular project.
- ✓ Tester can send messages to team members.

- ✓ Tester can approves bug-free tasks for project completion.

The PMS project modules work together to create an efficient, well-structured system for managing multiple projects effectively.

4.4 Expected Advantages

➤ Easy to Use

- ✓ The system is user-friendly for all roles, including Admin, Clients, Teamleader, Developers, and Testers.
- ✓ Admin can easily manage client tasks and Teaster can easily update project progress with minimal effort.

➤ User-Friendly Interface

- ✓ The PMS provides a simple and intuitive interface that works smoothly across various web browsers such as Google Chrome, Edge, Mozilla Firefox, and Opera.
- ✓ Each panel is designed to be fully responsive and accessible on different devices.

➤ Easy to Manage

- ✓ The Admin panel allows seamless management of all users, tasks, and project details.
- ✓ Admins and Team members can efficiently assign, track, and monitor tasks while ensuring that deadlines are met.

➤ Report Generating Feature

- ✓ Users can generate detailed reports on project progress, completed tasks, and pending issues.
- ✓ Project Managers and Admins can analyze reports to make data-driven decisions for better project execution.

➤ Security

- ✓ The system incorporates advanced security measures such as encryption and role-based access to protect sensitive data.
- ✓ Unauthorized access is restricted, ensuring a secure project management environment.

➤ **Reduces Time & Effort**

- ✓ Unlike traditional project tracking methods, PMS automates key processes, reducing the need for manual follow-ups and paperwork.

➤ **Real-Time Messaging and Updates**

- ✓ **The system provides instant messages** between the team members.
- ✓ On task assignments, project approvals, and bug tracking, keeping all information and improving overall project efficiency.

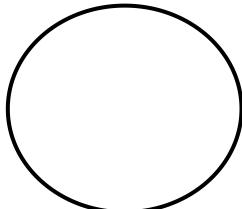
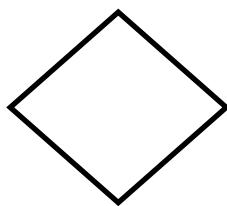
5. Detail Planing

- 5.1 Data Flow Diagram
- 5.2 Process Specification
- 5.3 Data Dictionary
- 5.4 Entity Relationship Diagram

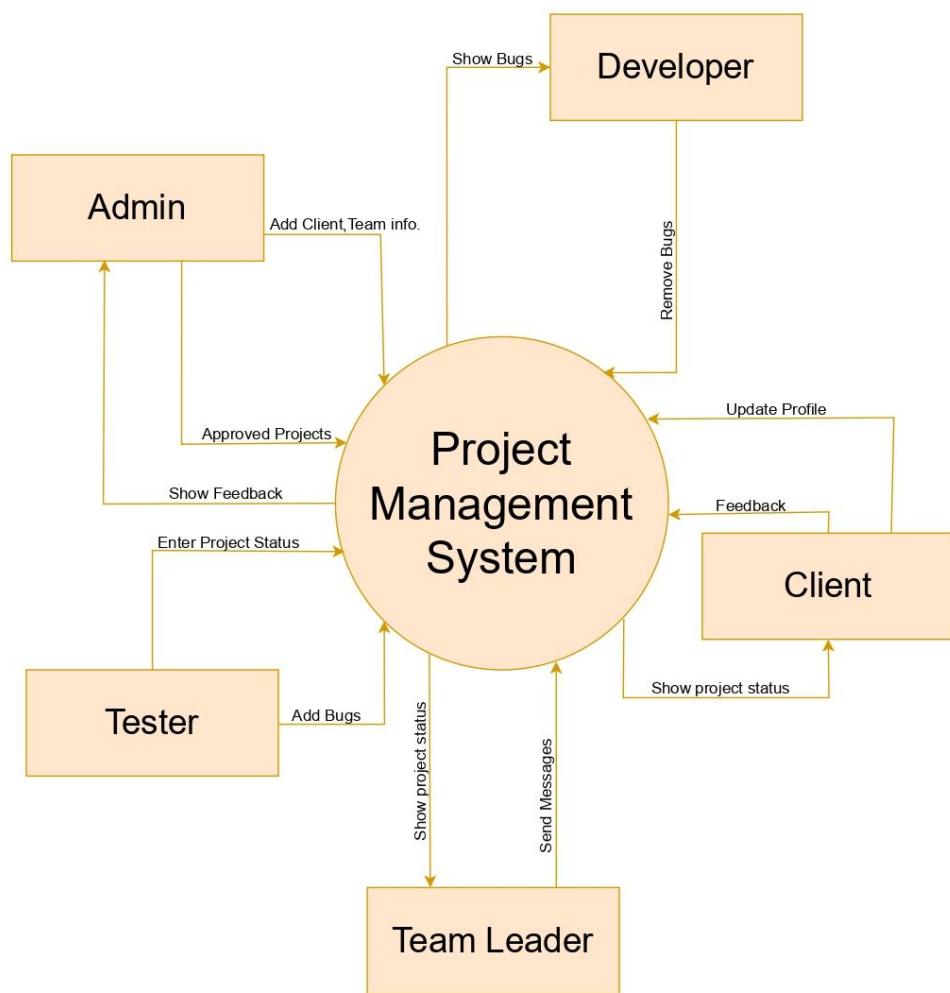
5. Detailed Planing

5.1 Data Flow Diagram

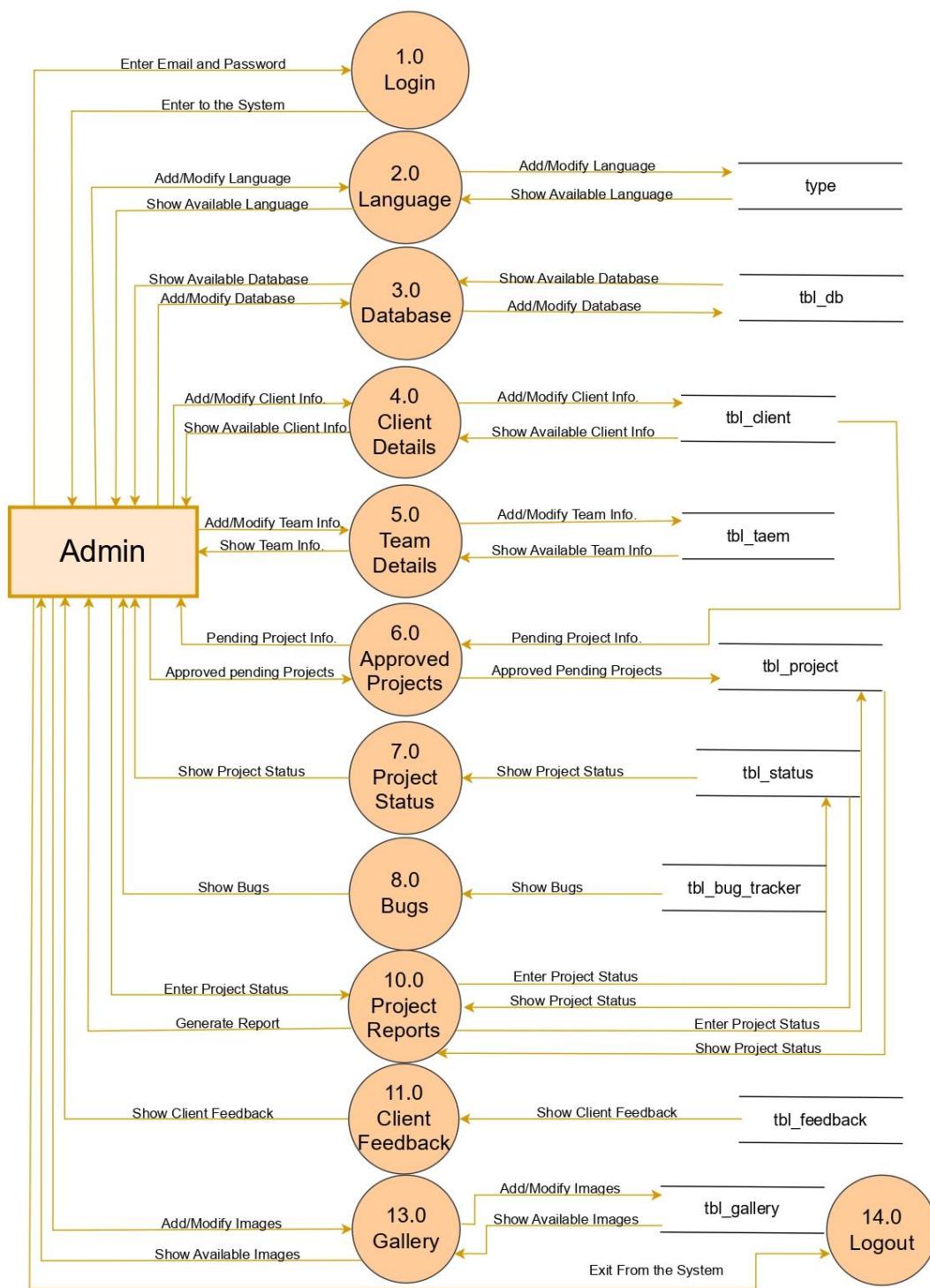
A data flow diagram (DFD) illustrates how data is processed by a system in terms of inputs and Outputs. As its name indicates its focus is on the flow of information, where data comes from, where it goes and how it gets stored.

Symbol	Name	Description
	Process	Process or task performed by the system.
	External Entity	External Entity are object of the system. A source or destination data of a system.
	Data Flow	Data Flow are pipelines through the packets of information flow.
	Data Stores	Place where data to be stored.
	Decision Making	Diamond indicates a decision.

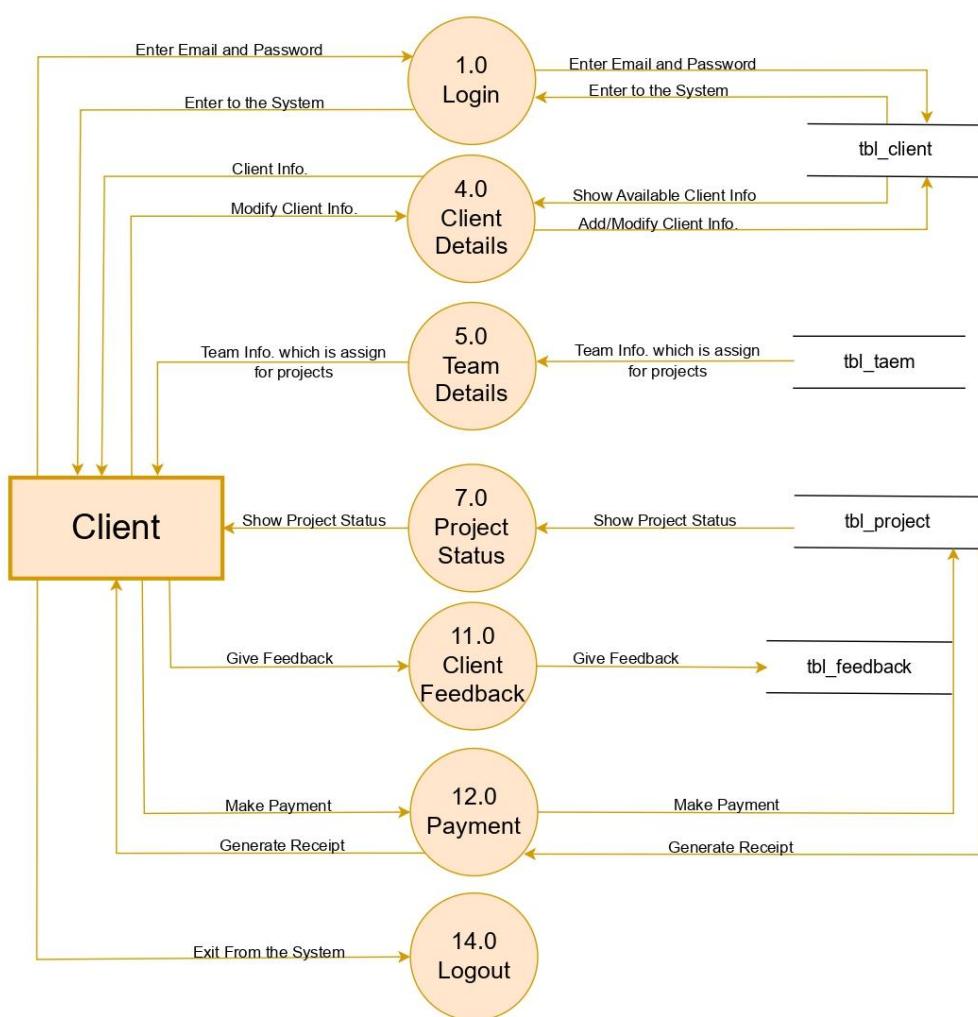
➤ **Context Level DFD**



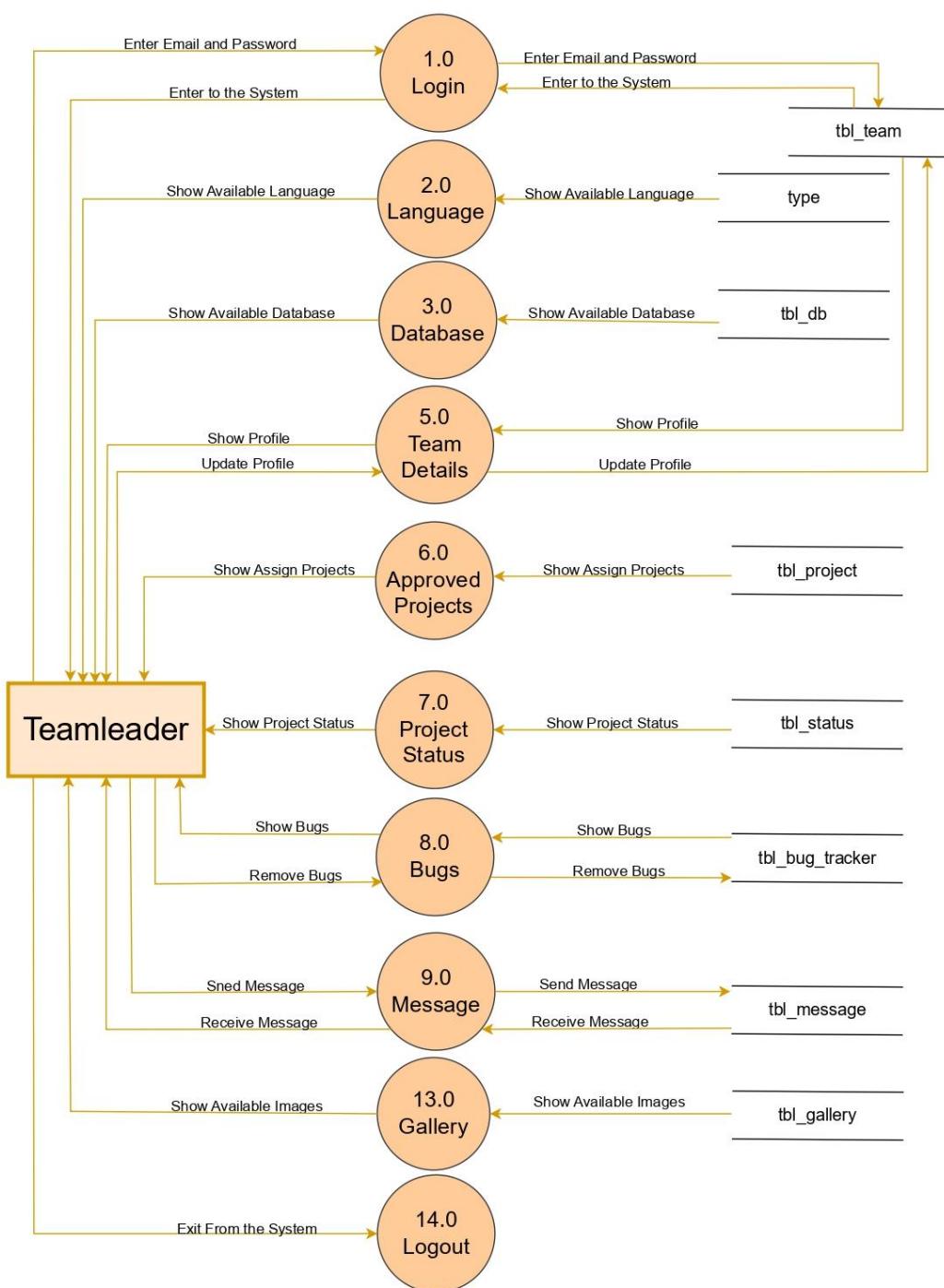
1st Level of Admin



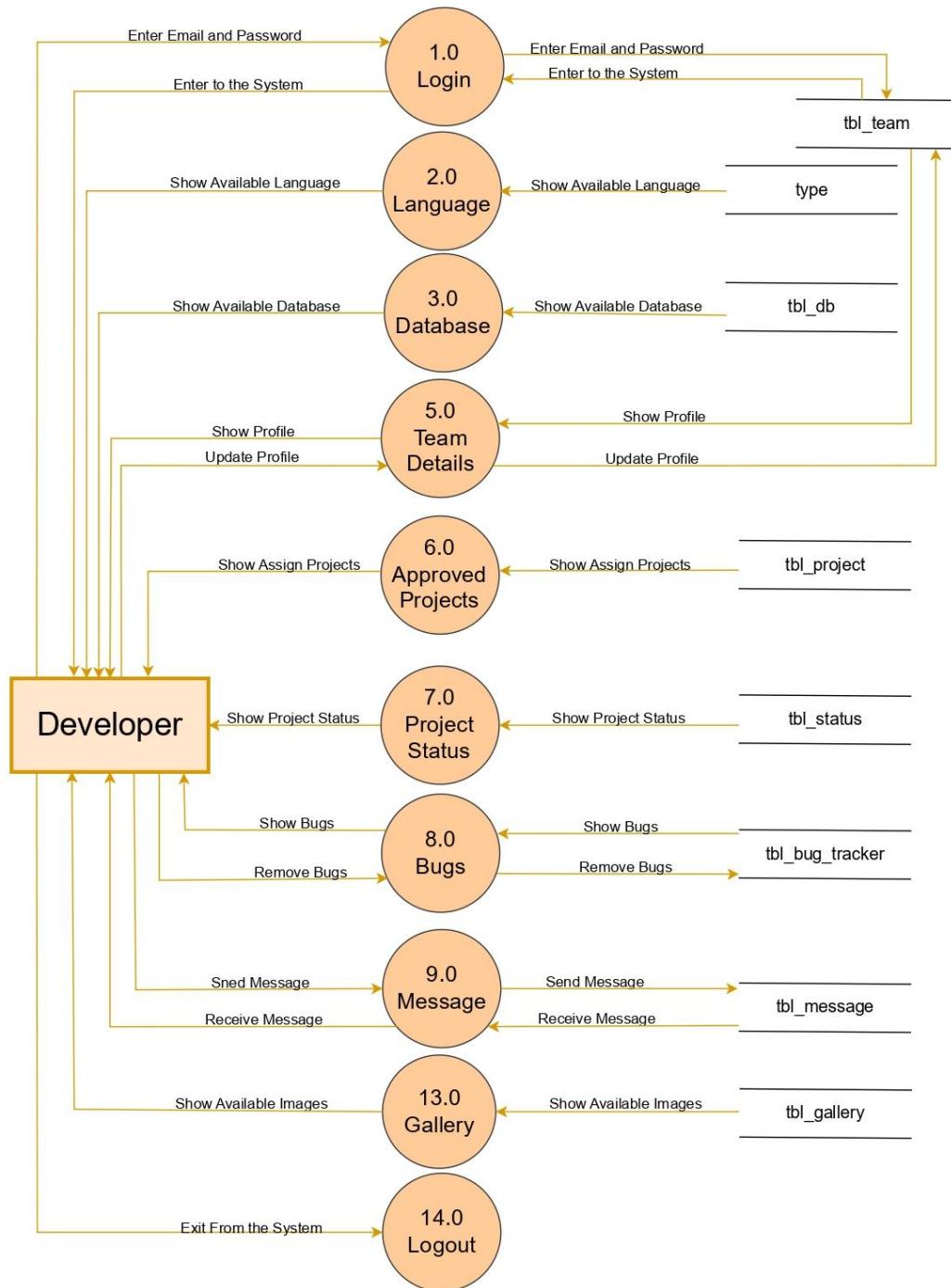
➤ **1st Level of Client**



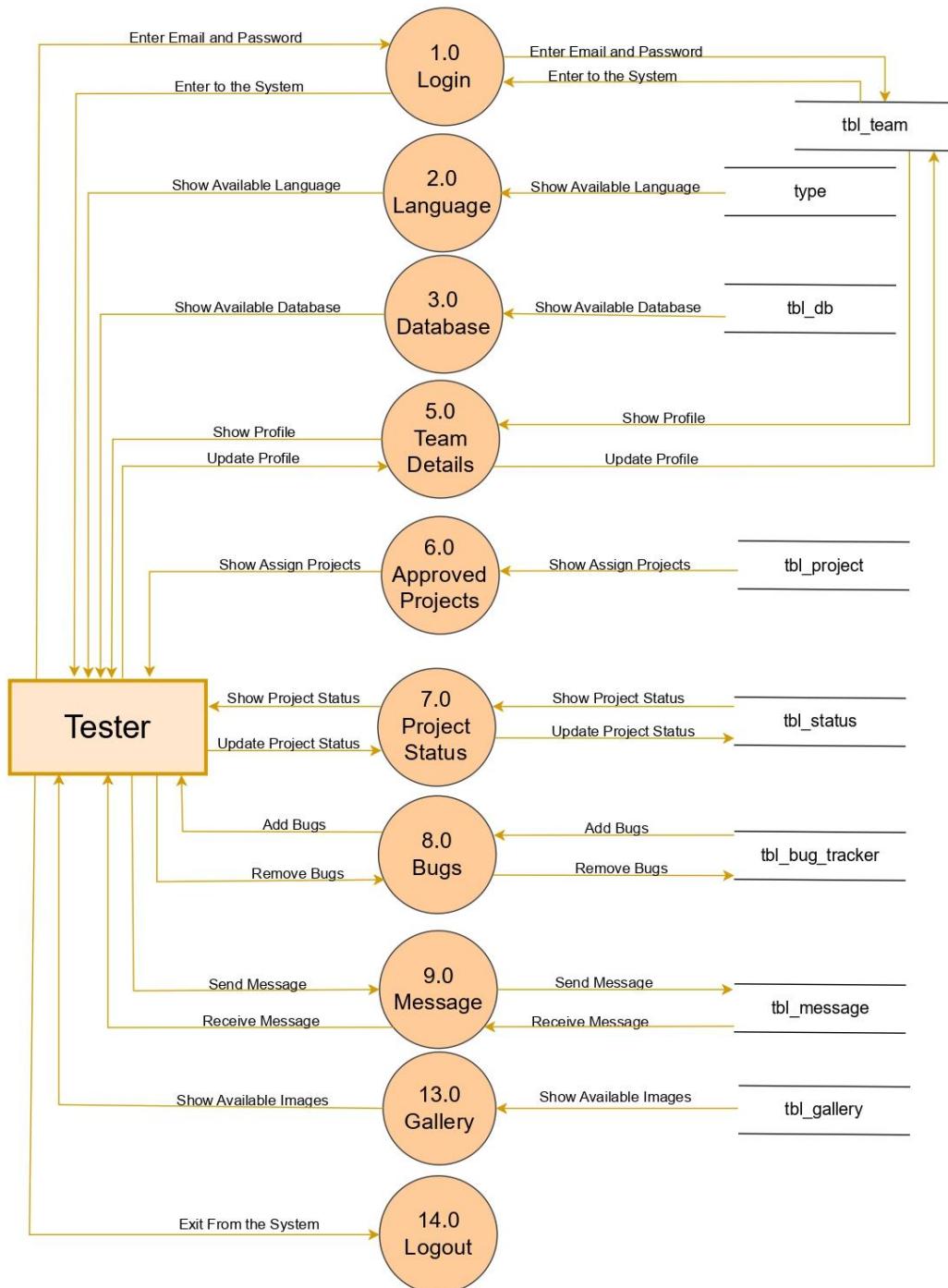
➤ **1st Level of Teamleader**



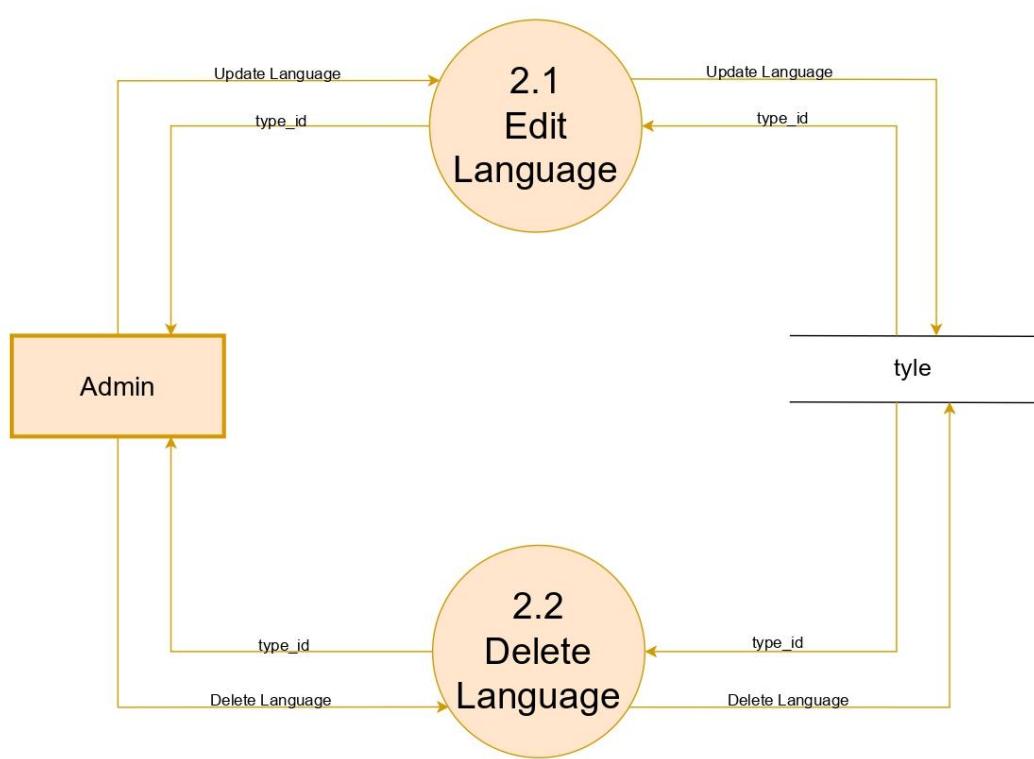
➤ **1st Level of Developer**



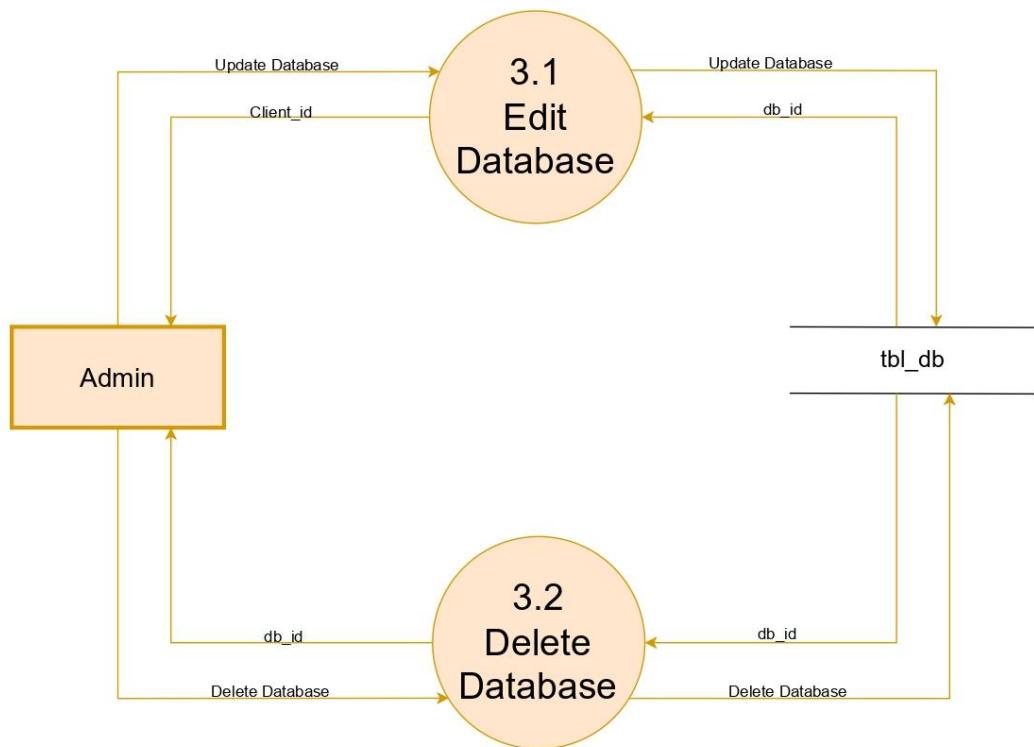
➤ **1st Level of Tester**



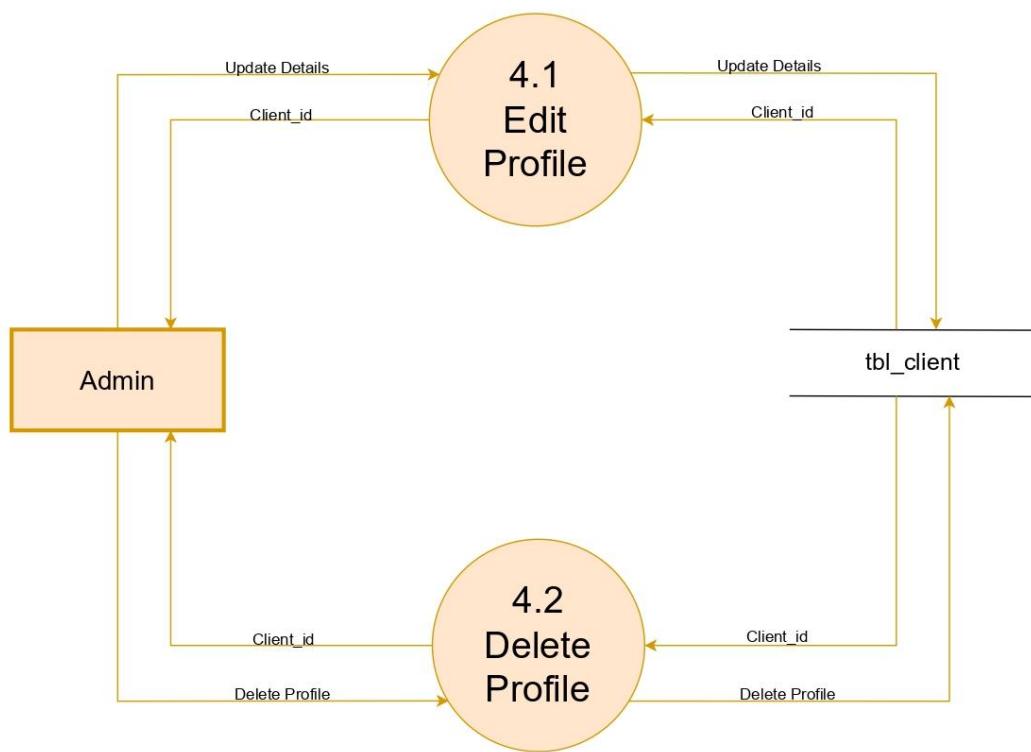
➤ **2nd Level of Language**



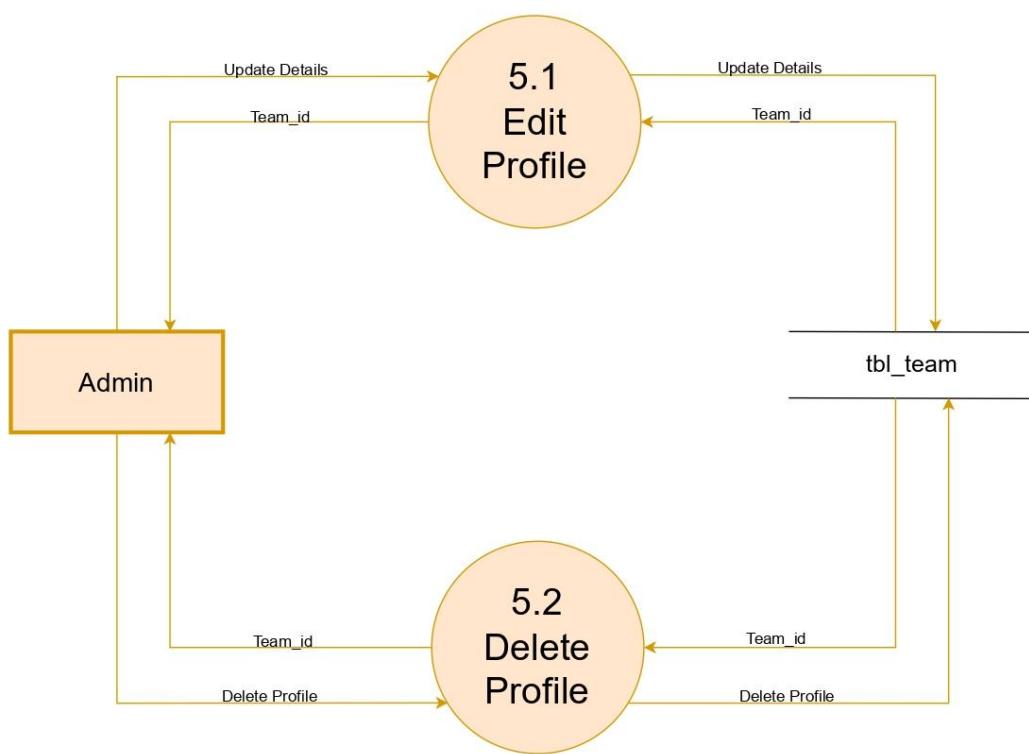
➤ **2nd Level of Database**



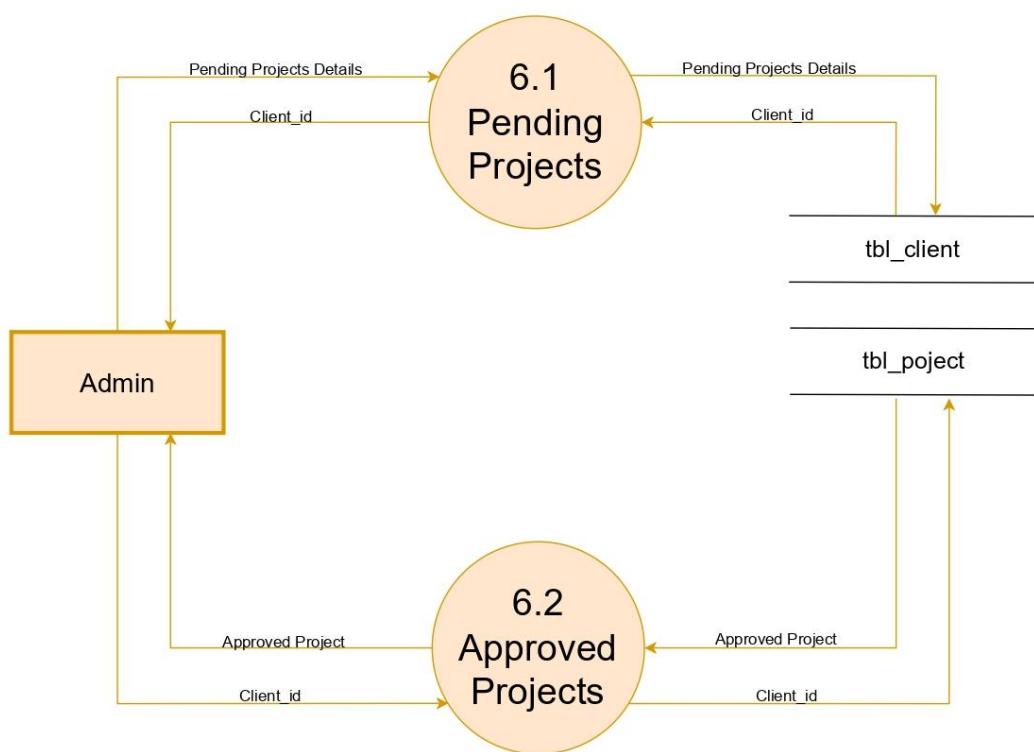
➤ **2nd Level of Client Edit Profile**



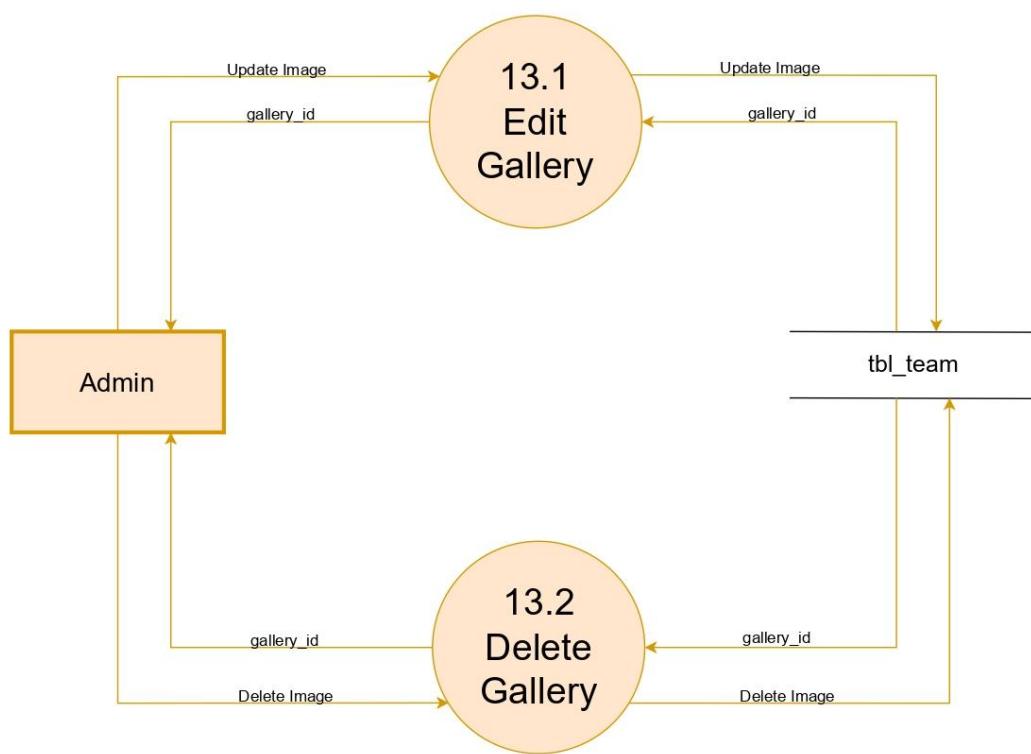
➤ **2nd Level of Team Edit Profile(Admin)**



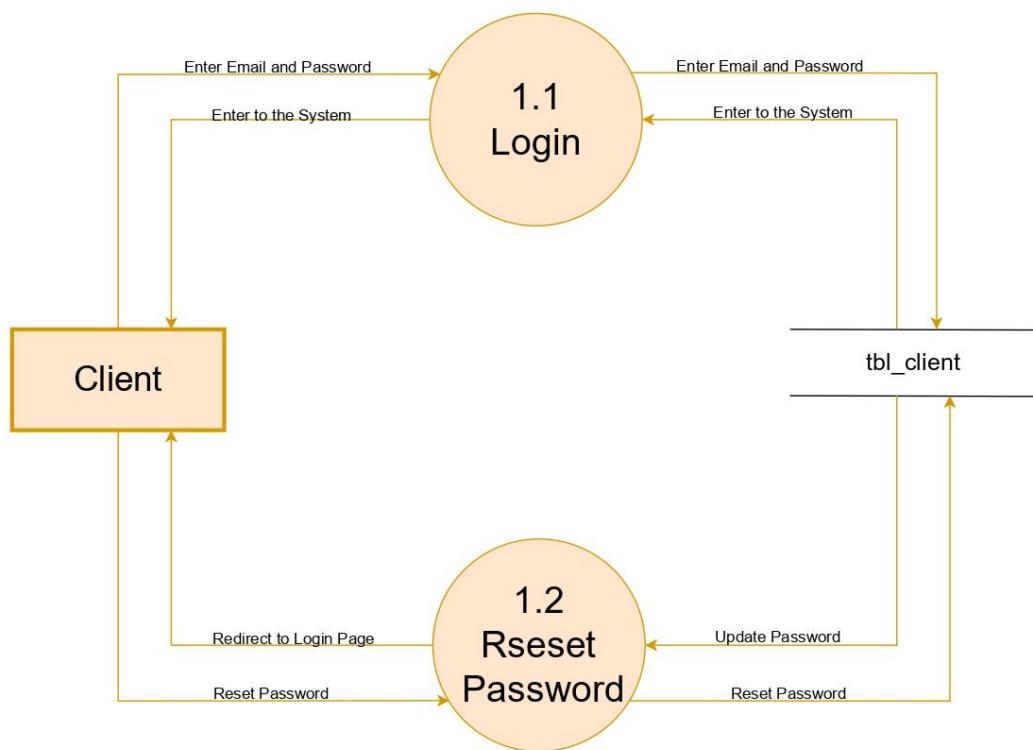
➤ **2nd Level Approved Project(Admin)**



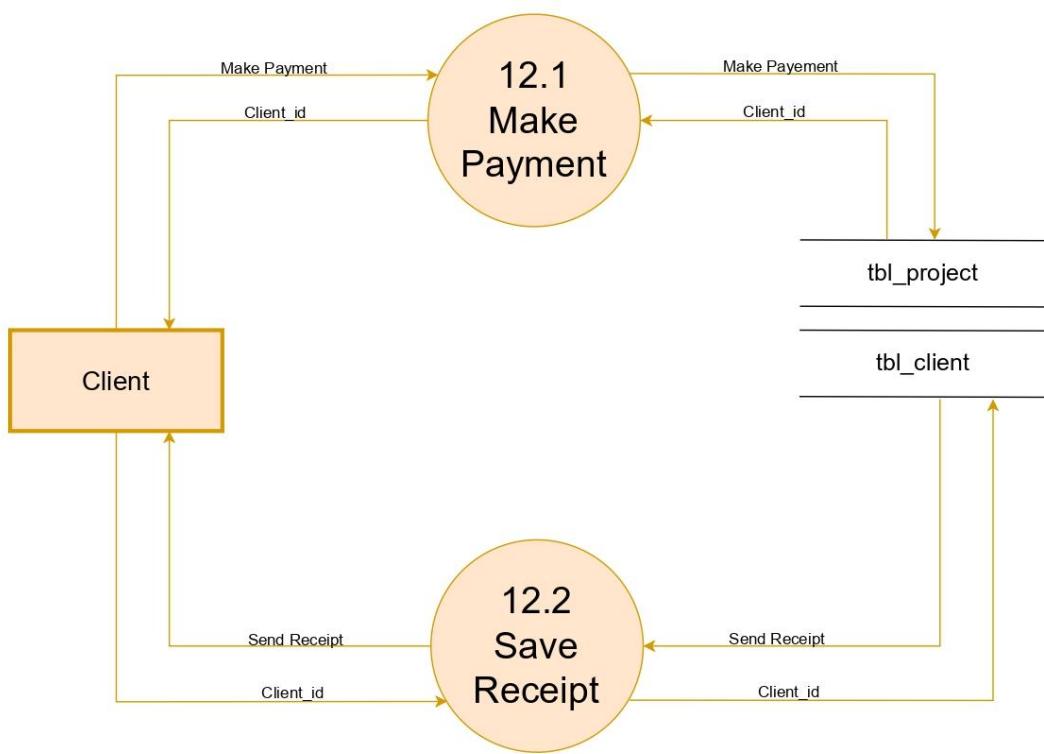
➤ **2nd Level of Team Edit Gallery(Admin)**



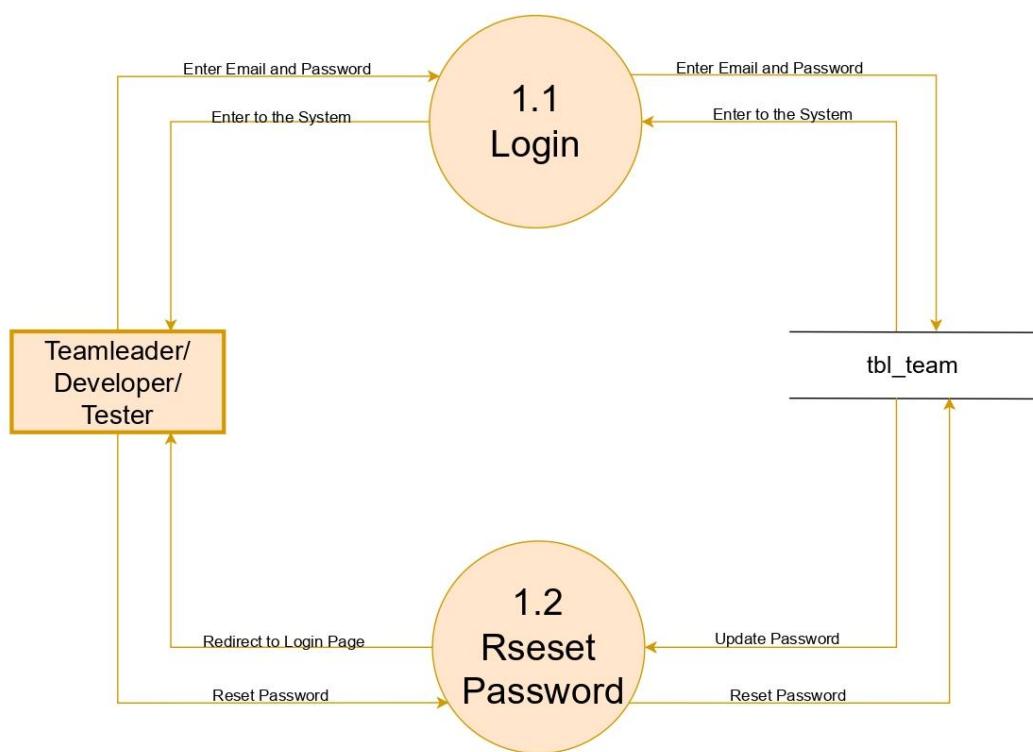
➤ **2nd Level of Client Forgot Password**



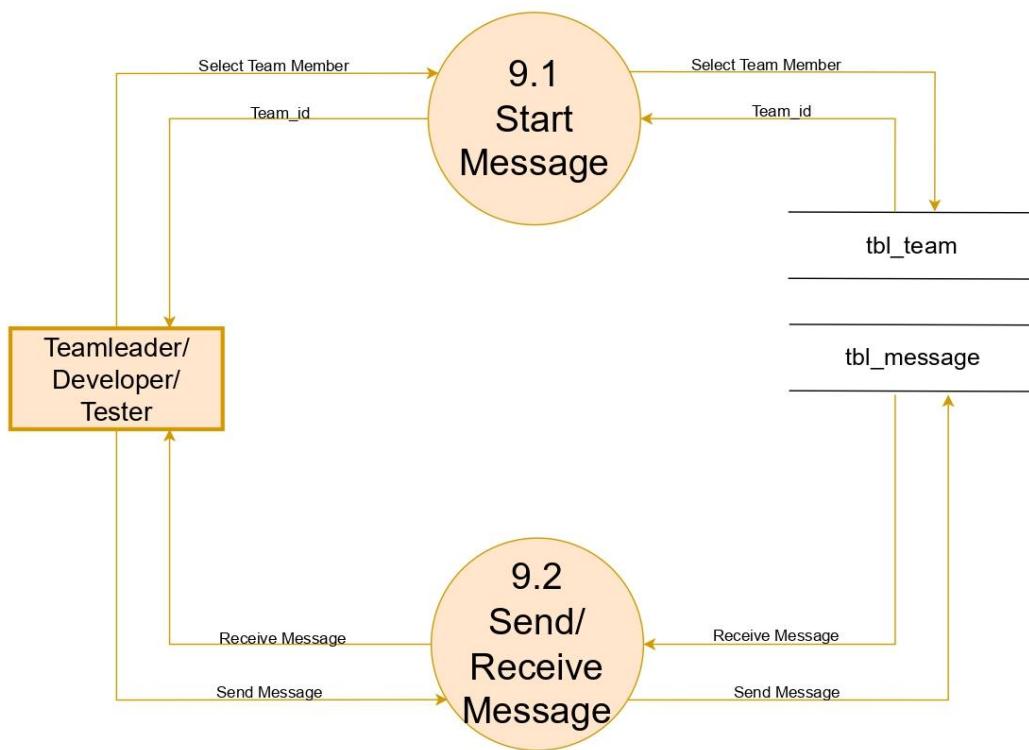
➤ **2nd Level of Payment**



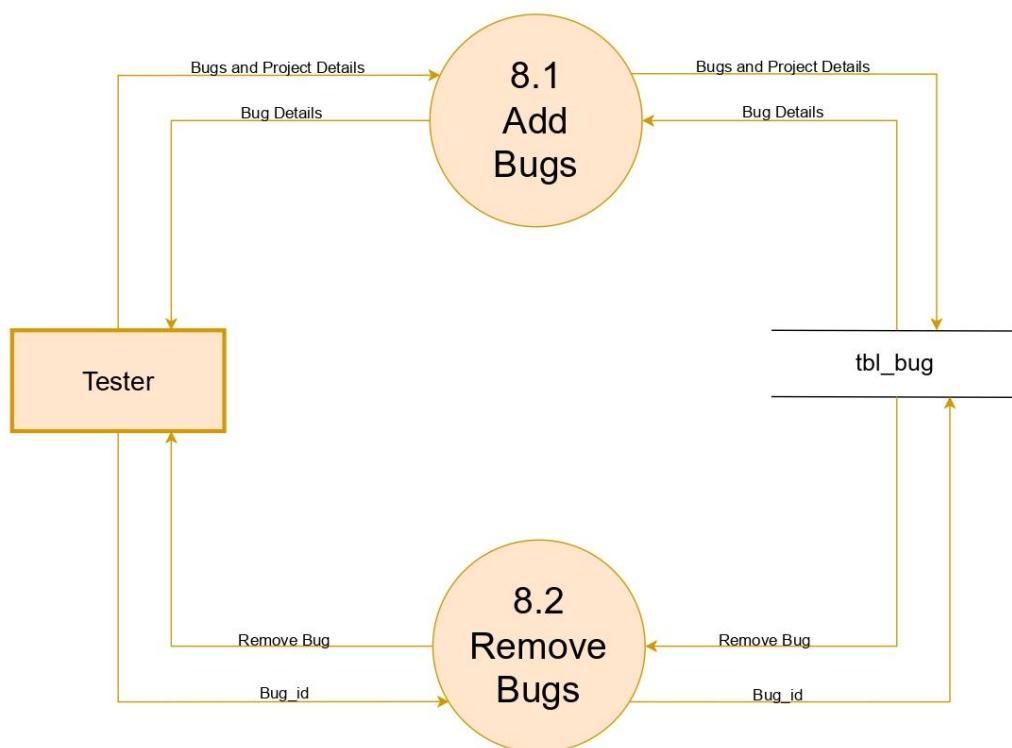
➤ **2nd Level of Team Forgot Password(Team)**



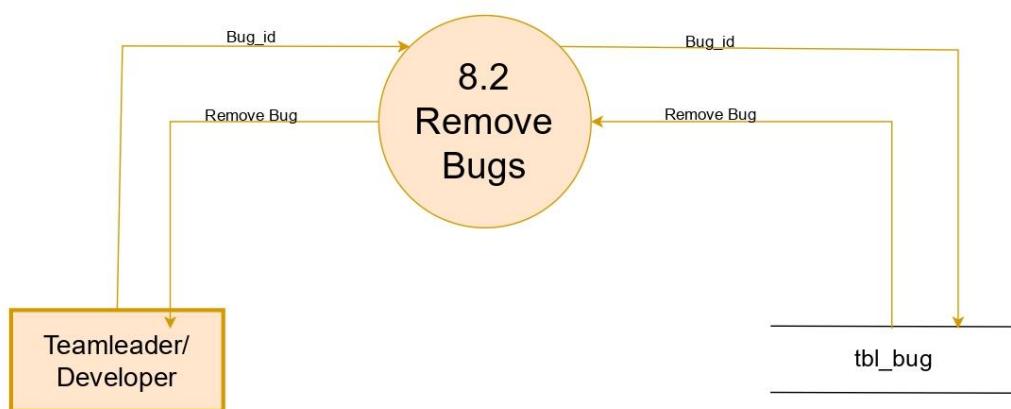
➤ **2nd Level of Message(Team)**



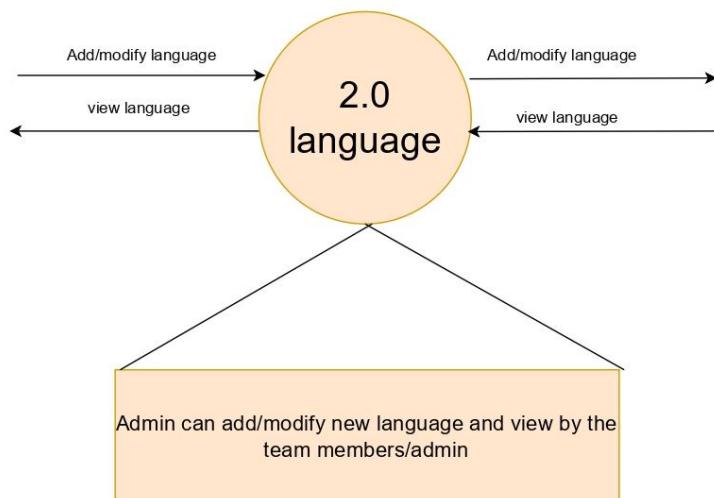
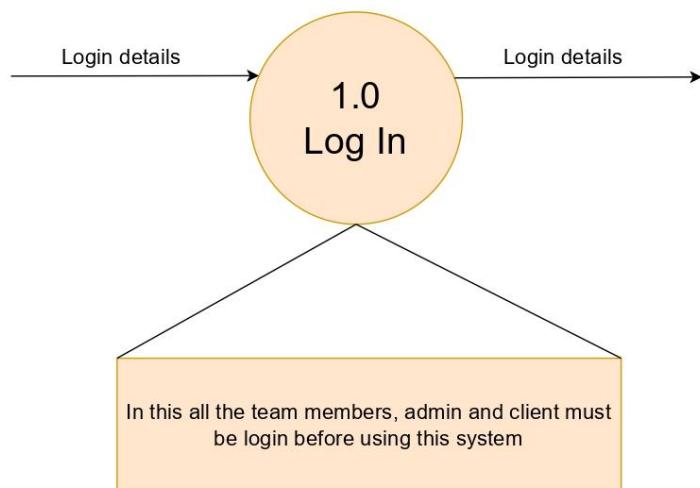
➤ **2nd Level of Bugs**

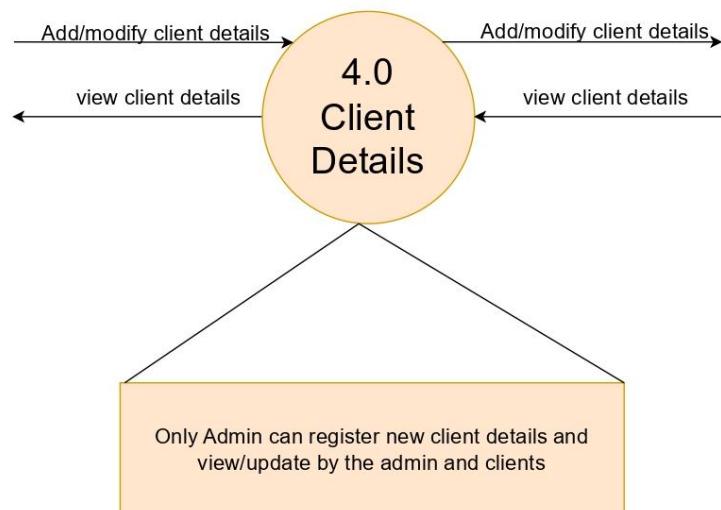
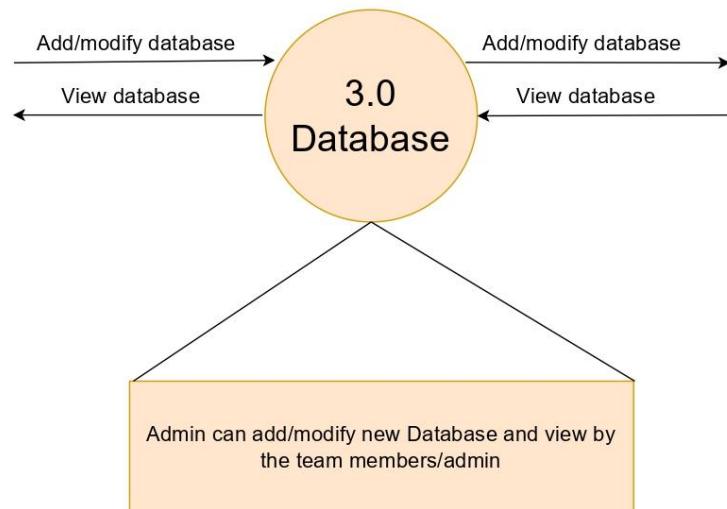


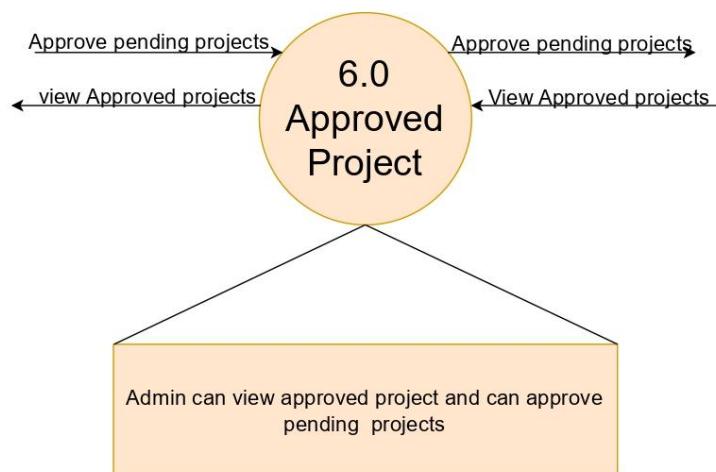
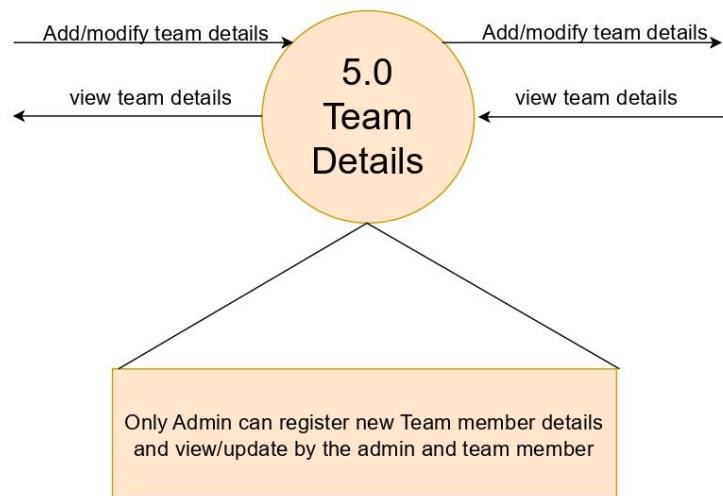
➤ **2nd Level of Bugs**

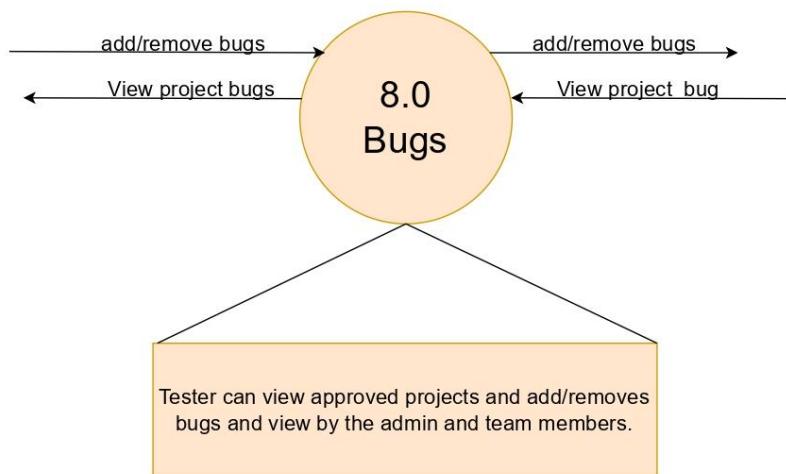
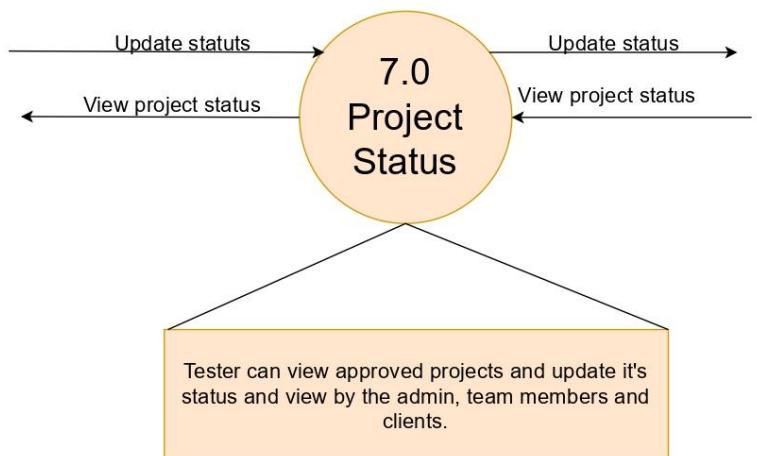


5.2 Process Specification

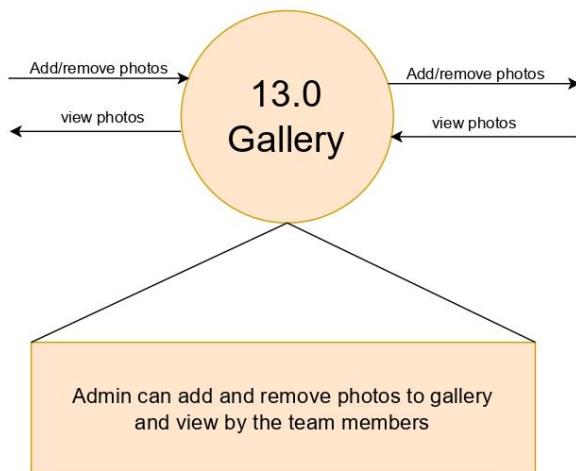
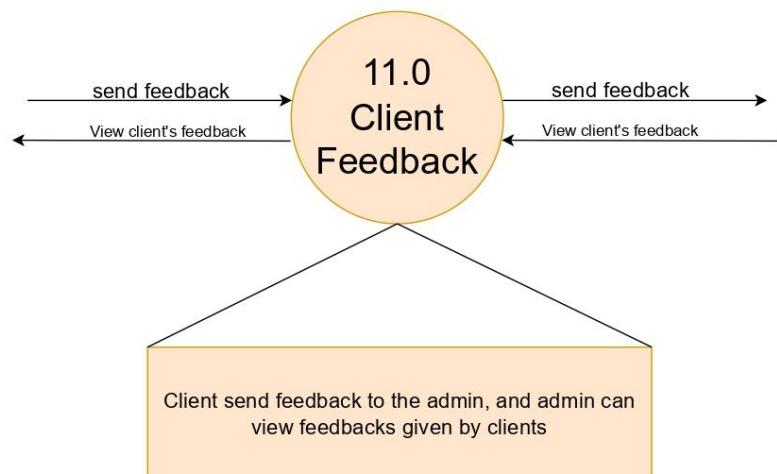


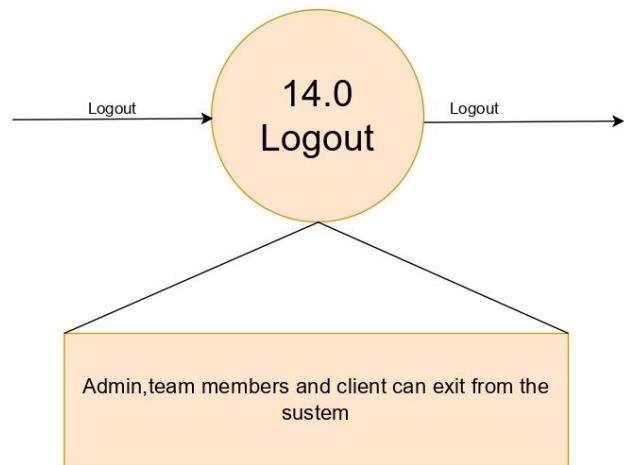












5.3 Data Dictionary

➤ Stored Language

Name	type
Alice	none
Where Used/How Used	Create project (input/output)
Description	Type_id,name
Supplementary Information	For creating different projects in different languages and assign to the team member

➤ Stored Database

Name	tbl_db
Alice	none
Where Used/How Used	Stored the data(input/output)
Description	db_id,name
Supplementary Information	Stored the data into the different types of database for project making

➤ Gallery Images

Name	tbl_gallery
Alice	none
Where Used/How Used	Display images (input/output)
Description	gallery_id,image
Supplementary Information	Display the different images on the Team member profile.

➤ Client Registration

Name	add_client
Alice	client_profile
Where Used/How Used	Client Registration(input/output)
Description	Client_id,name,address,city,pincode,state,country,password,email,telephone,project_name,registration date etc.
Supplementary Information	Used for the store data of client which was entered in client registration form and fetch data when user login in website for use this system

➤ Employee Registration

Name	add_team
Alice	team_profile
Where Used/How Used	Employee Registration(input/output)
Description	Team_Id,name,teamleader_id,type_id,position,email,password,telephone,image
Supplementary Information	Used for the store data of employee which was entered in employee registration form and fetch data when user login in website for use this system

➤ Project Details

Name	tbl_project
Alice	none
Where Used/How Used	Manage project details (input/output)
Description	project_id,title,project_deadline,description ,type_id,client_id,team_id,website,db_id,ft p_username, ftp_password ,amount
Supplementary Information	Manage project details like project approve,which project is assign to the which teamleader,tester and so on.

➤ Bugs Information

Name	tbl_bug_tracker
Alice	none
Where Used/How Used	Track bug details (input/output)
Description	bug_tracker_id,project_id,teamleader_grou p_id,bug,is_open,language,created_date
Supplementary Information	In the project any bugs are exist then add the bug details by the tester so the team can fix this bugs and remove it.

➤ Project status

Name	tbl_status
Alice	none
Where Used/How Used	Display status about project(input/output)
Description	status_id,project_id,is_design,is_responsive,is_functionality,is_bug,progress,is_complete,payment
Supplementary Information	Update status by the tester so the team can view and update the project if any bugs or issues occur for project compilation.

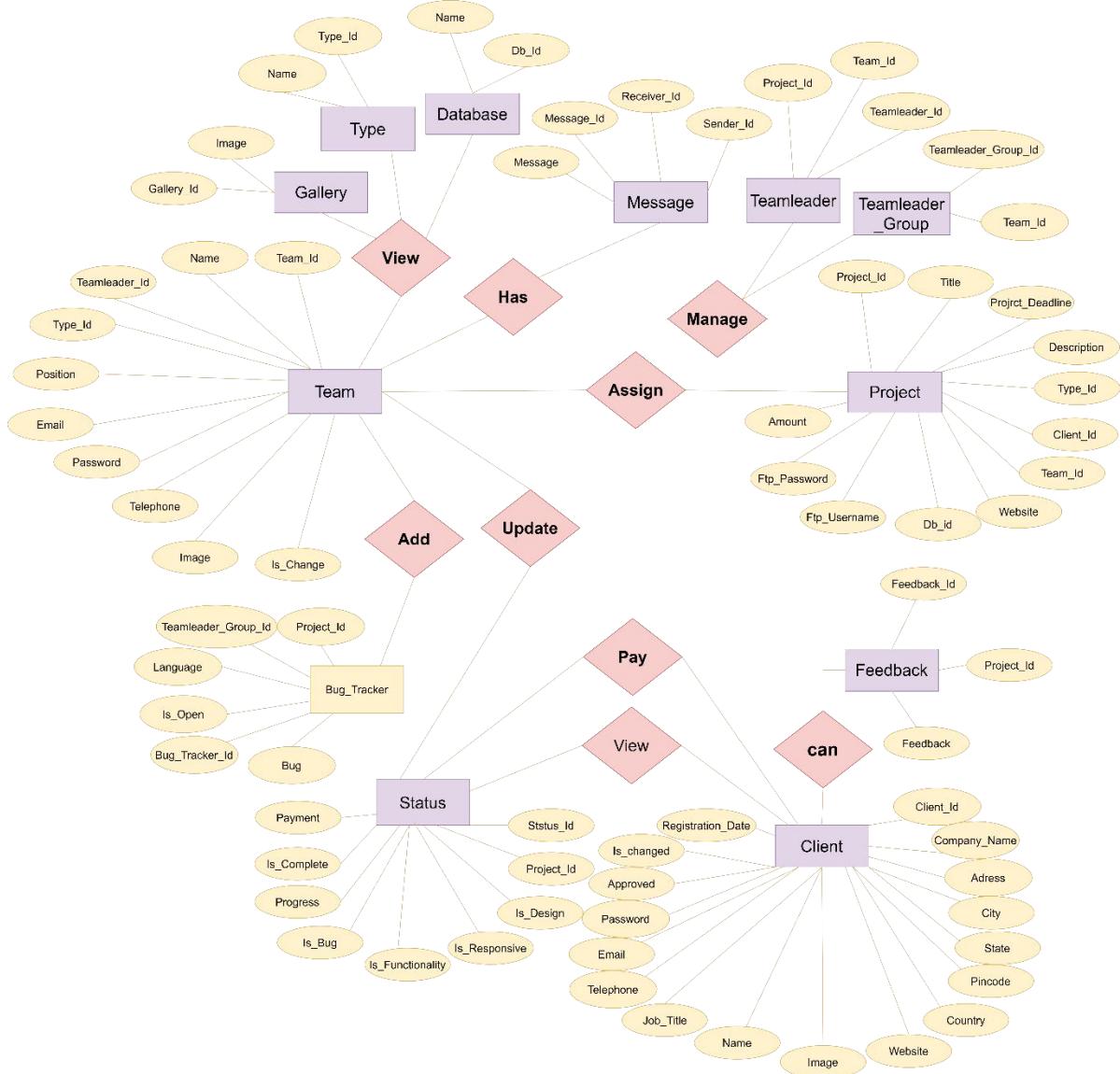
➤ For real-time Messaging

Name	tbl_message
Alice	chat
Where Used/How Used	Communicate for project(input/output)
Description	message_id, sender_id, receiver_id, message , time
Supplementary Information	Communicate with other team members for any issues or know information regarding project

➤ Client Feedback

Name	tbl_feedback
Alice	none
Where Used/How Used	Give feedback(input/output)
Description	Feedback_id,project_id,feedback,date
Supplementary Information	Client can give the feedback to the admin for the project and admin can view the client feedback.

5.4 Entity Relationship Diagram



6. System Testing

- 6.1 Database Design
- 6.2 Directory Structure
- 6.3 Input Layouts

6.1 Database Design :

db_table :

Sr.No	Field Name	Data Type	Constraints
1	Db_id	Int(11)	Primary key
2	name	Varchar(50)	

feedback_table :

Sr.No	Field Name	Data Type	Constratints
1	Feedback_id	Int(11)	Primary key
2	Project_id	Int(11)	Foreign key
3	Feedback	Text	
4	date	datetime	

gallery_table :

Sr.No	Field Name	Data Type	Constratints
1	Gallery_id	Int(11)	Primary key
2	image	text	

message_table :

Sr.No	Field Name	Data Type	Constratints
1	Message_id	Int(11)	Primary key
2	Sender_id	Int(11)	
3	Receiver_id	Int(11)	
4	Message	Text	
5	time	Datetime	

type:

Sr.No	Field Name	Data Type	Constraints
1	Type_id	Int(11)	Primary key
2	name	Varchar(50)	

tbl_client :

Sr.No	Field Name	Data Type	Constraints
1	Client_id	Int(11)	Primary key
2	Company_name	Varchar(100)	
3	Address	Text	
4	City	Varchar(50)	
5	State	Varchar(50)	
6	Pincode	Int(6)	
7	Country	Varchar(50)	
8	Website	Varchar(50)	
9	Profile_pic	Varchar(50)	
10	Name	Varchar(50)	
11	Job_title	Varchar(50)	
12	Telephone	Varchar(50)	
13	Email	Varchar(50)	
14	Password	Varchar(50)	
15	Approved	Tinyint(1)	
16	Is_changed	Tinyint(1)	
17	Registration_date	date	

project_table :

Sr.No	Field Name	Data Type	Constraints
1	Project_id	Int(11)	Primary key
2	Title	Varchar(50)	
3	Project_deadline	Date	
4	Description	Varchar(100)	
5	Type_id	Varchar(100)	Foreign key
6	Client_id	Int(11)	Foreign key
7	Team_id	Int(11)	Foreign key
8	Website	Varchar(50)	
9	Db_id	Varchar(50)	Foreign key
10	ftp_username	Varchar(50)	
11	ftp_password	Varchar(50)	
12	amount	Int(11)	

status_table :

Sr.No	Field Name	Data Type	Constraints
1	Status_id	Int(11)	Primary key
2	Project_id	Int(11)	Foreign key
3	Is_design	Tinyint(1)	
4	Is_responsive	Tinyint(1)	
5	Is_functionality	Tinyint(1)	
6	Is_bug	Tinyint(1)	
7	Progree	Int(3)	
8	Is-complete	Tinyint(1)	
9	payment	Tinyint(1)	

team_table :

Sr.No	Field Name	Data Type	Constraints
1	Team_id	Int(11)	Primary key
2	Teamleader_id	Int(11)	Foreign key
3	Name	Varchar(50)	
4	Type_id	Varchar(50)	Foreign key
5	Position	Tinyint(1)	
6	Email	Varchar(50)	
7	Password	Varchar(50)	
8	Telephone	Varchar(50)	
9	Profile_pic	Varchar(50)	
10	Is_changed	Tinyint(1)	

tbl_bug_tracker :

Sr.No	Field Name	Data Type	Constraints
1	Bug_tracker_id	Int(11)	Primary key
2	Project_id	Int(11)	Foreign key
3	Teamleader_group_id	Int(11)	Foreign key
4	Bug	Text	
5	Is_open	Tinyint(1)	
6	Language	Int(11)	
7	Created_date	timestamp	

teamleader_group_table :

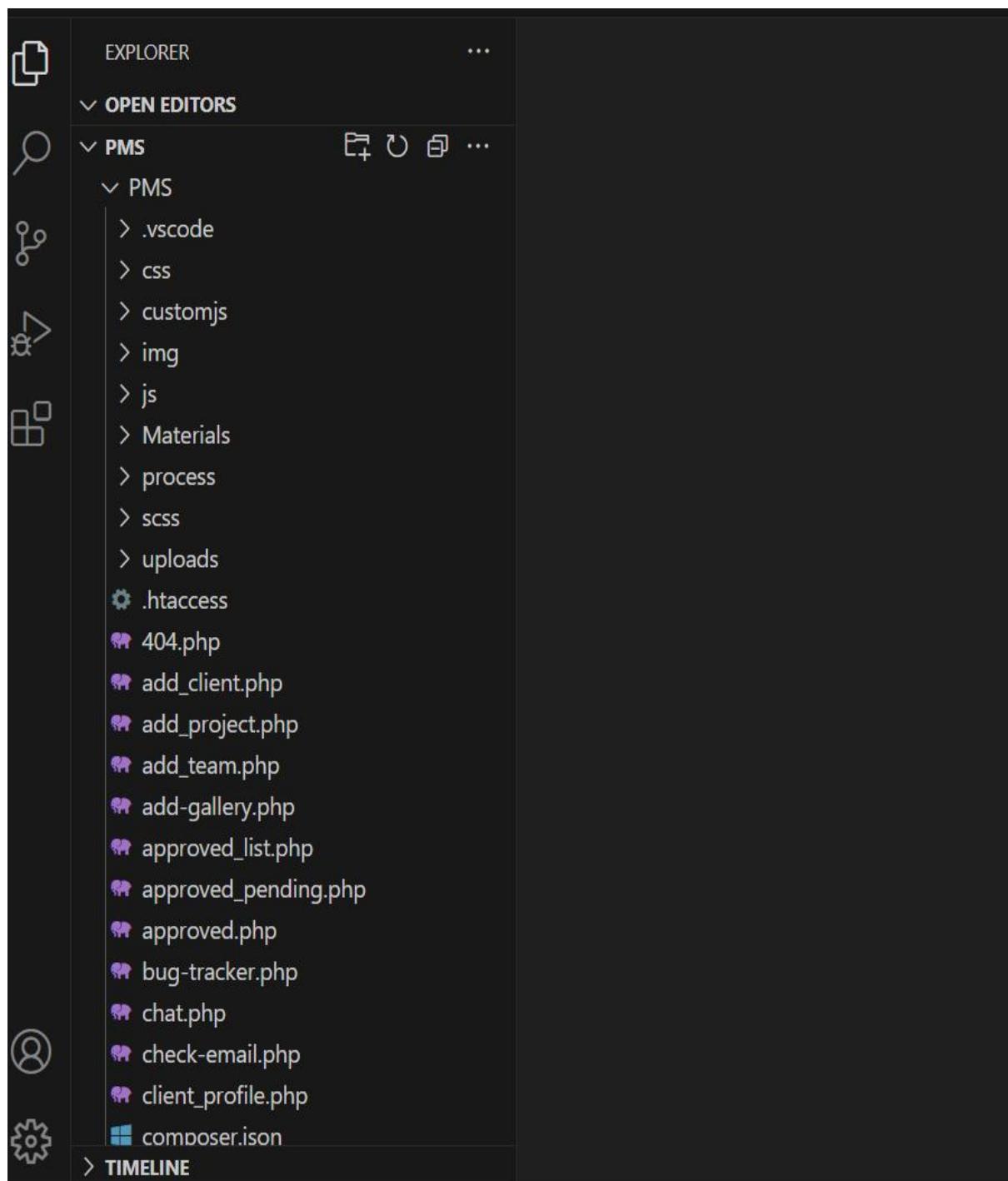
Sr.No	Field Name	Data Type	Constratints
1	Teamleader_group_id	Int(11)	Primary key
2	Team_id	Int(11)	Foreign key
3	Project_id	Int(11)	Foreign key
4	Allocate_date	datetime	

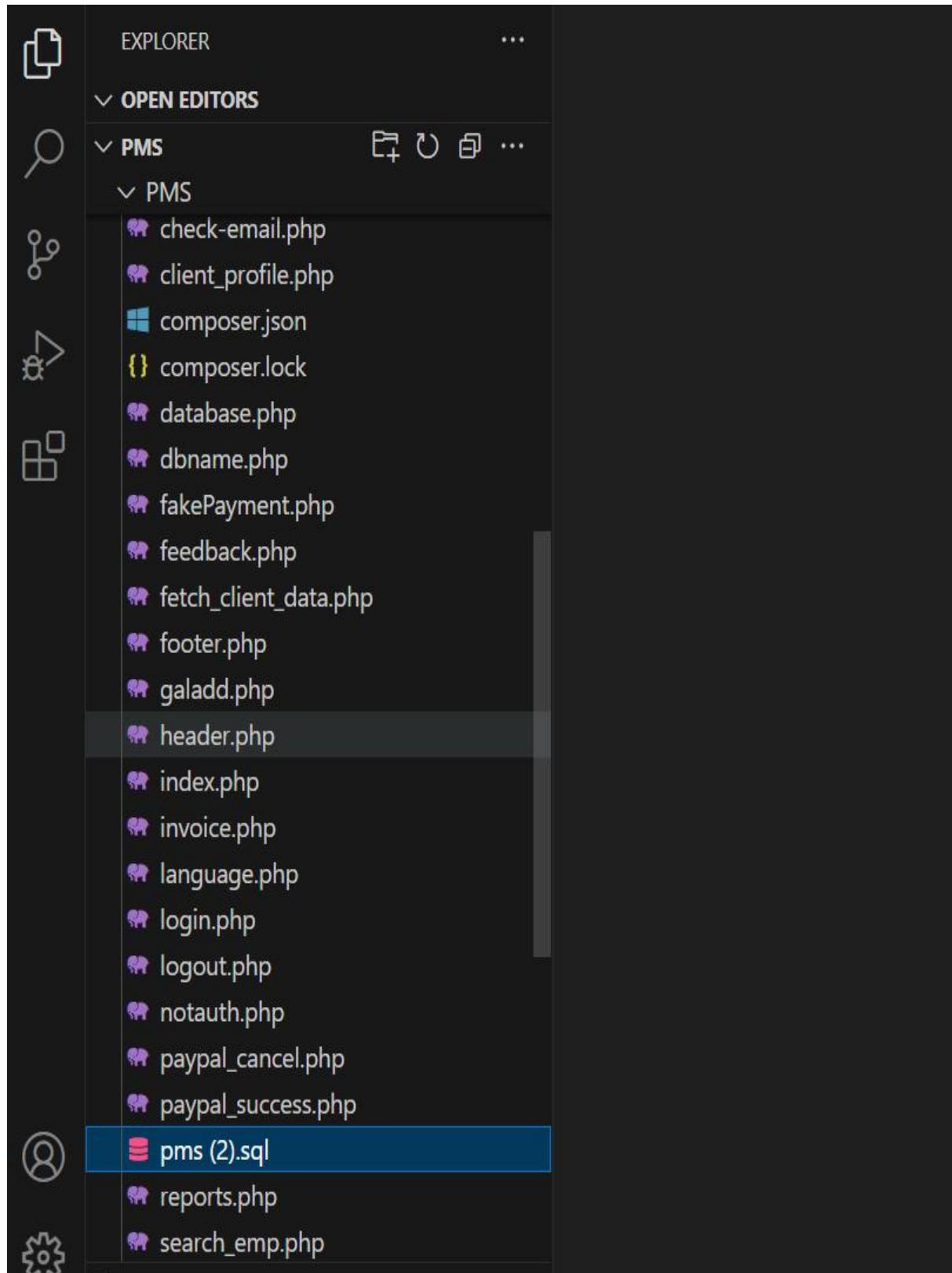
teamleader_tbl :

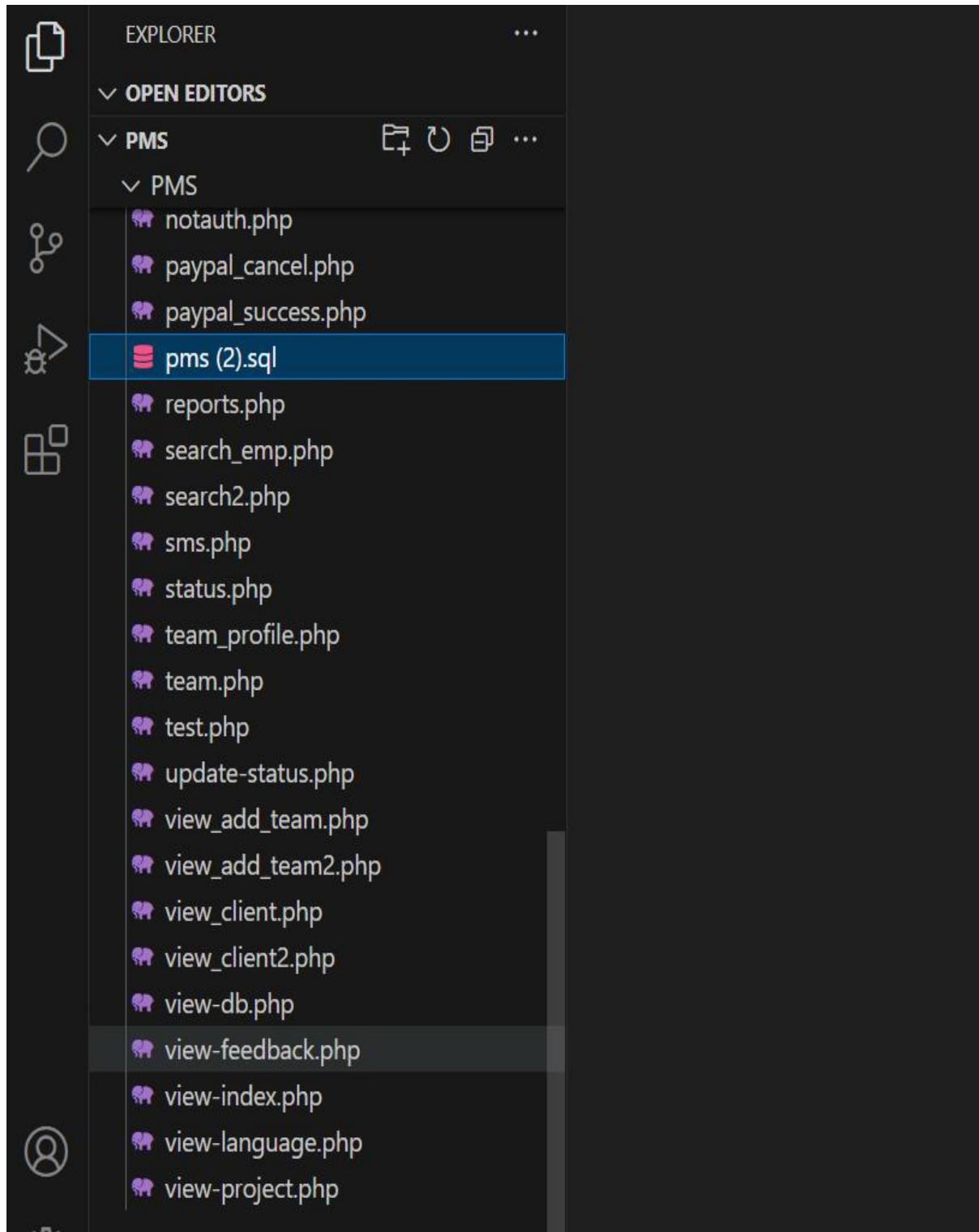
Sr.No	Field Name	Data Type	Constratints
1	Teamleader_id	Int(11)	Primary key
2	Team_id	Int(11)	Foreign key
3	name	Varchar(50)	

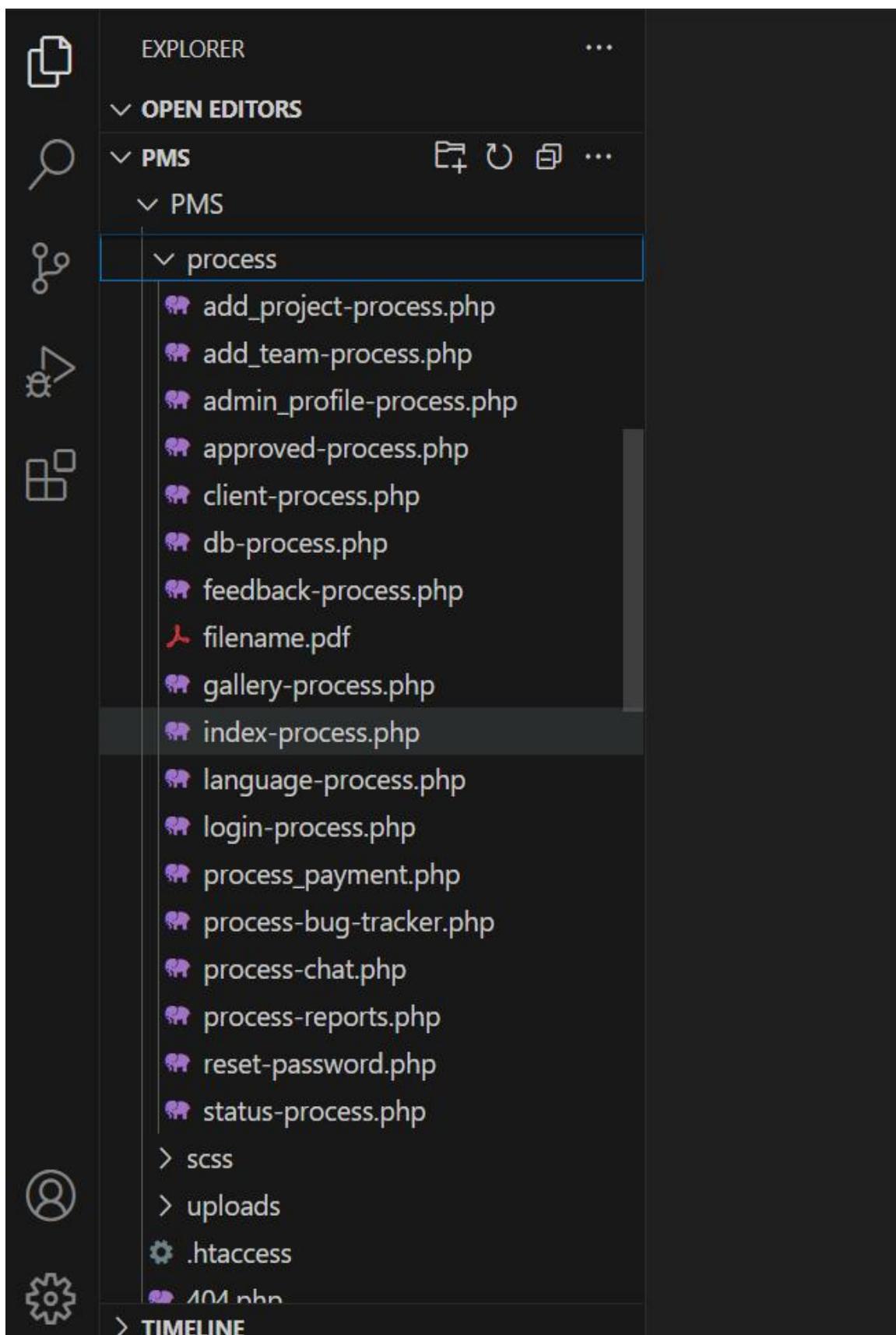
6.2 Directory Structure :

Command :



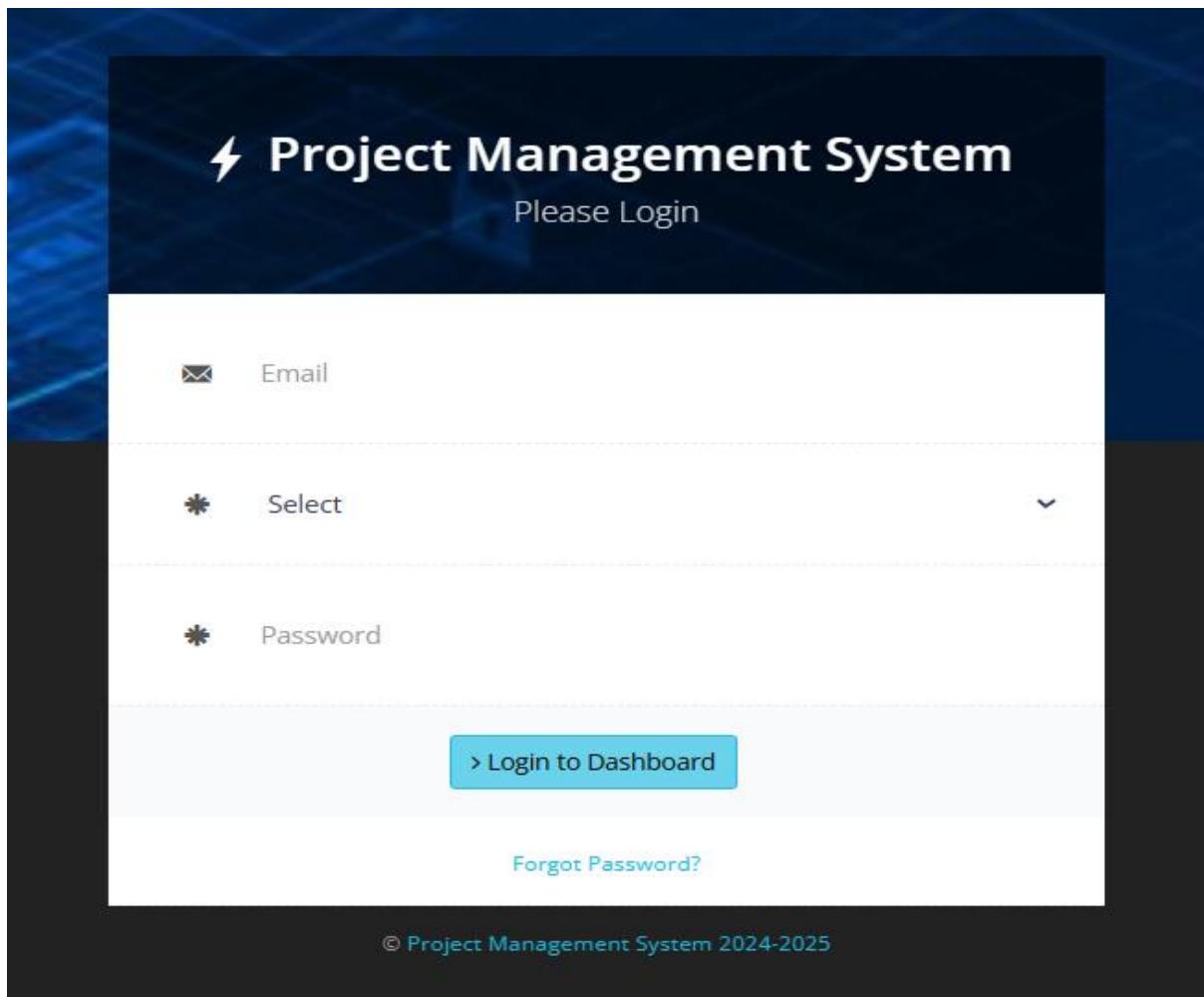




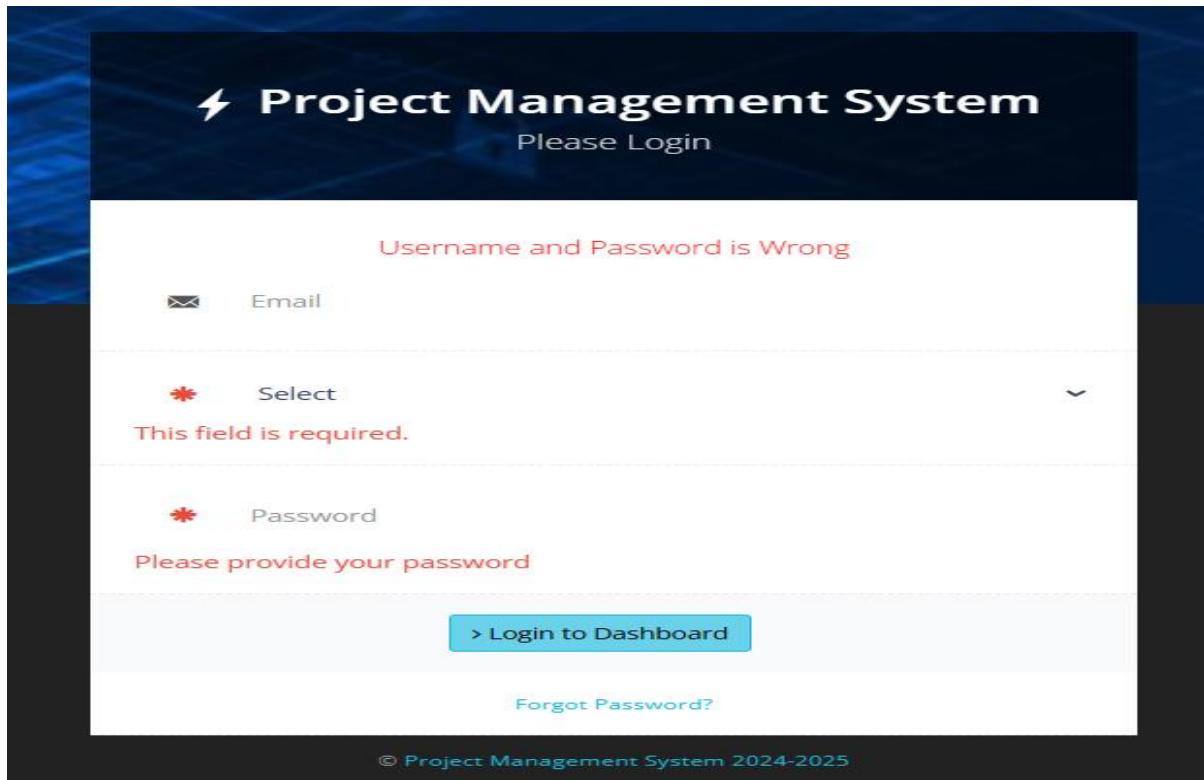


6.3 Input and output Layouts

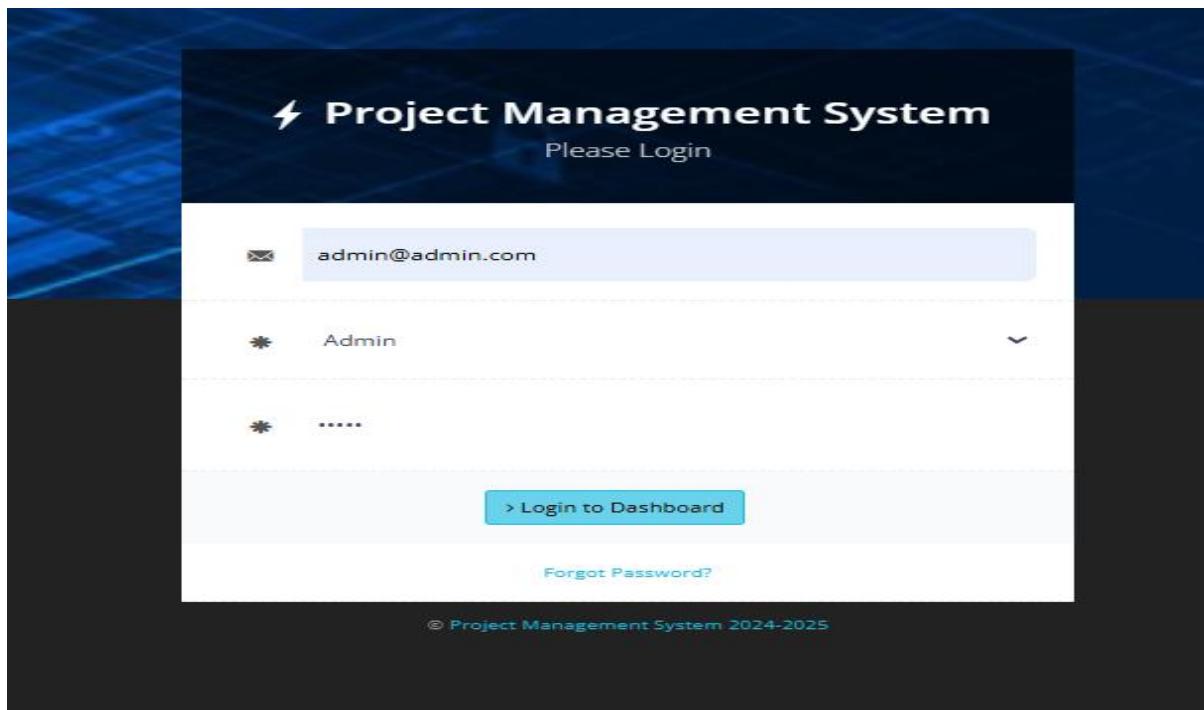
Login :



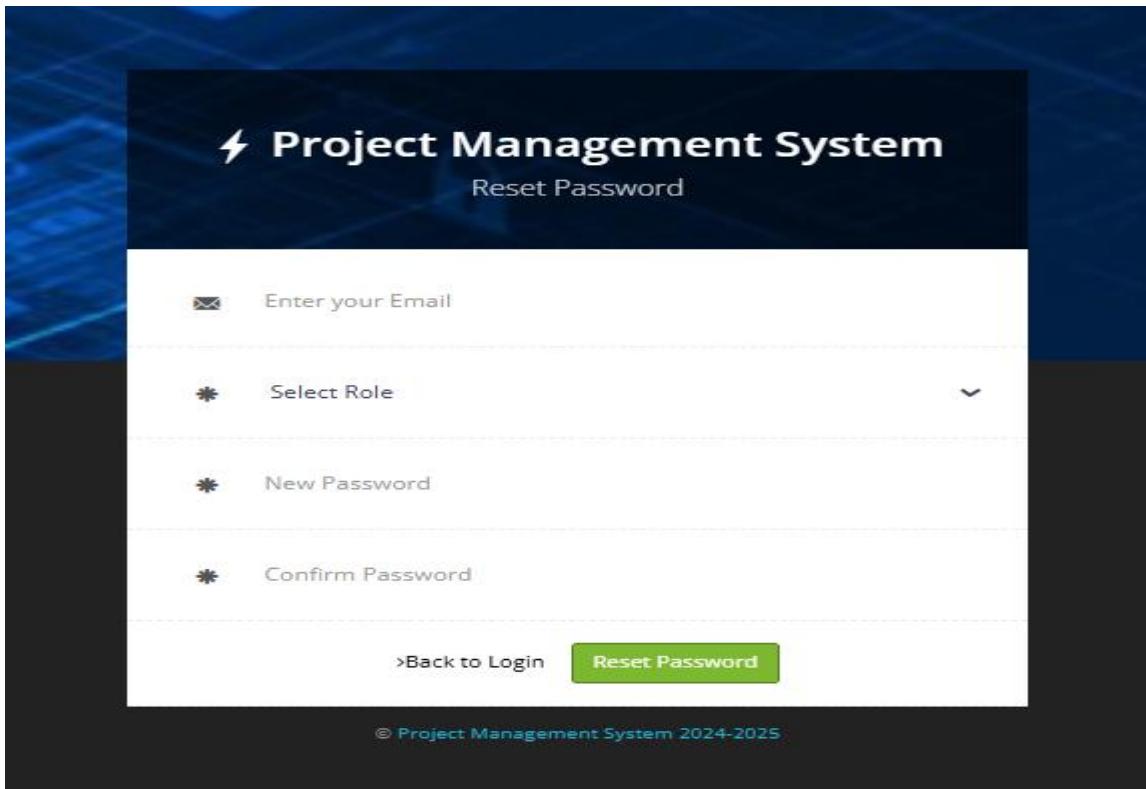
Validation :



Admin Login :

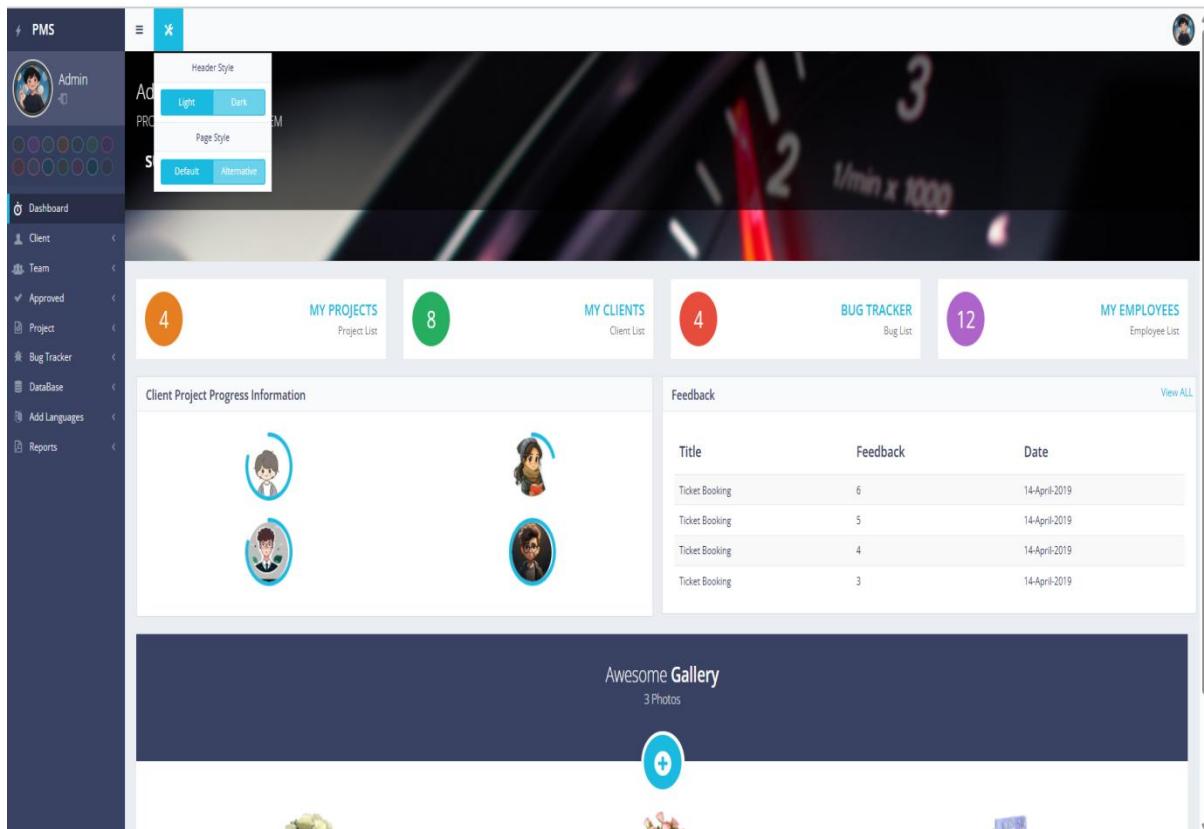


Reset password :



Admin Dashboard :

The screenshot shows the Admin Dashboard of the Project Management System. The left sidebar includes links for Admin, Client, Team, Approved, Project, Bug Tracker, DataBase, Add Languages, and Reports. The main dashboard features a clock background and several summary cards: 'MY PROJECTS' (4), 'MY CLIENTS' (8), 'BUG TRACKER' (4), and 'MY EMPLOYEES' (12). Below these are sections for 'Client Project Progress Information' (showing four user icons) and 'Feedback' (listing four entries with titles like 'Ticket Booking' and dates like '14-April-2019'). A large blue banner at the bottom says 'Awesome Gallery'.



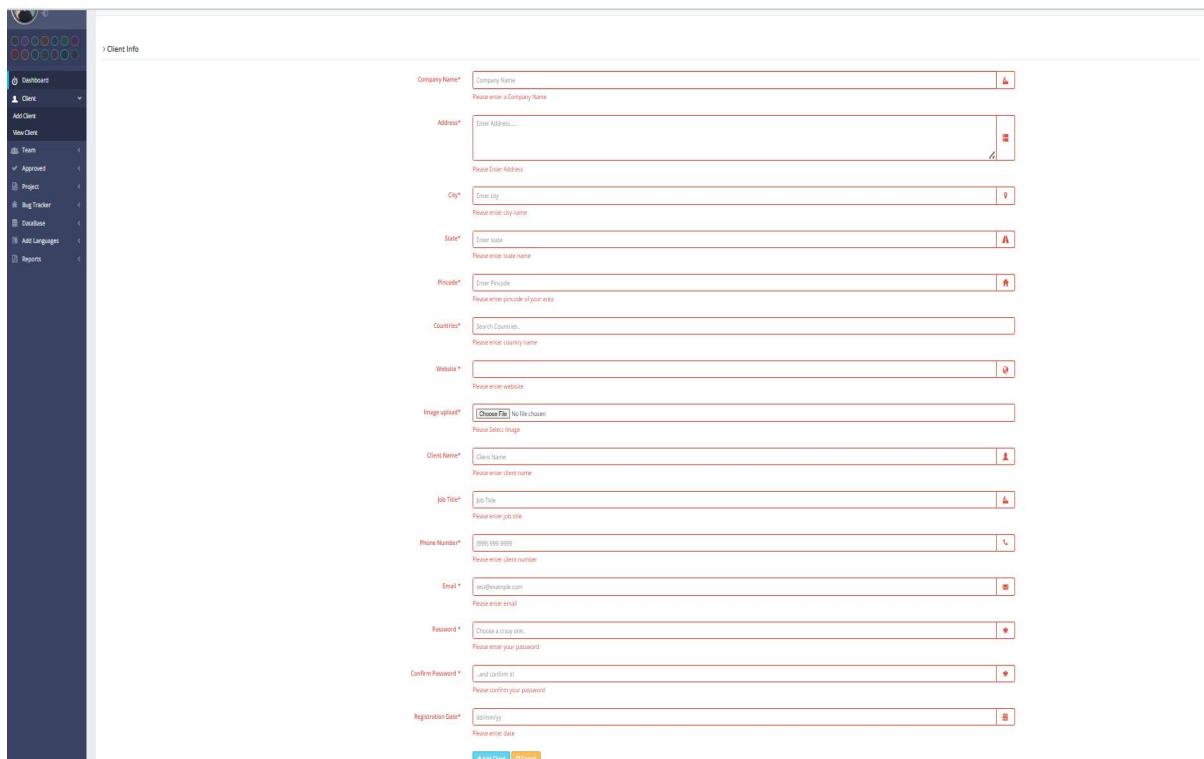
Add Client :

The screenshot shows the 'Add Client' form. The sidebar menu on the left includes 'Client' (selected), 'Add Client', 'View Client', 'Team', 'Approved', 'Project', 'Bug Tracker', 'DataBase', 'Add Languages', and 'Reports'. The main form has a header 'Add Client' and a section 'Client Info'. It contains the following fields:

- Company Name*: Company Name (input field)
- Address*: Enter Address... (input field)
- City*: Enter city (input field)
- State*: Enter state (input field)
- Pincode*: Enter Pincode (input field)
- Countries*: Search Countries... (input field)
- Website*: (input field)
- Image upload*: Choose File (input field, No file chosen)
- Client Name*: Client Name (input field)
- Job Title*: Job Title (input field)
- Phone Number*: (999) 999-9999 (input field)
- Email*: test@example.com (input field)
- Password*: Choose a crazy one. (input field)
- Confirm Password*: ...and confirm it! (input field)
- Registration Date*: dd/mm/yy (input field)

At the bottom are 'Add Client' and 'Cancel' buttons.

Client validation :

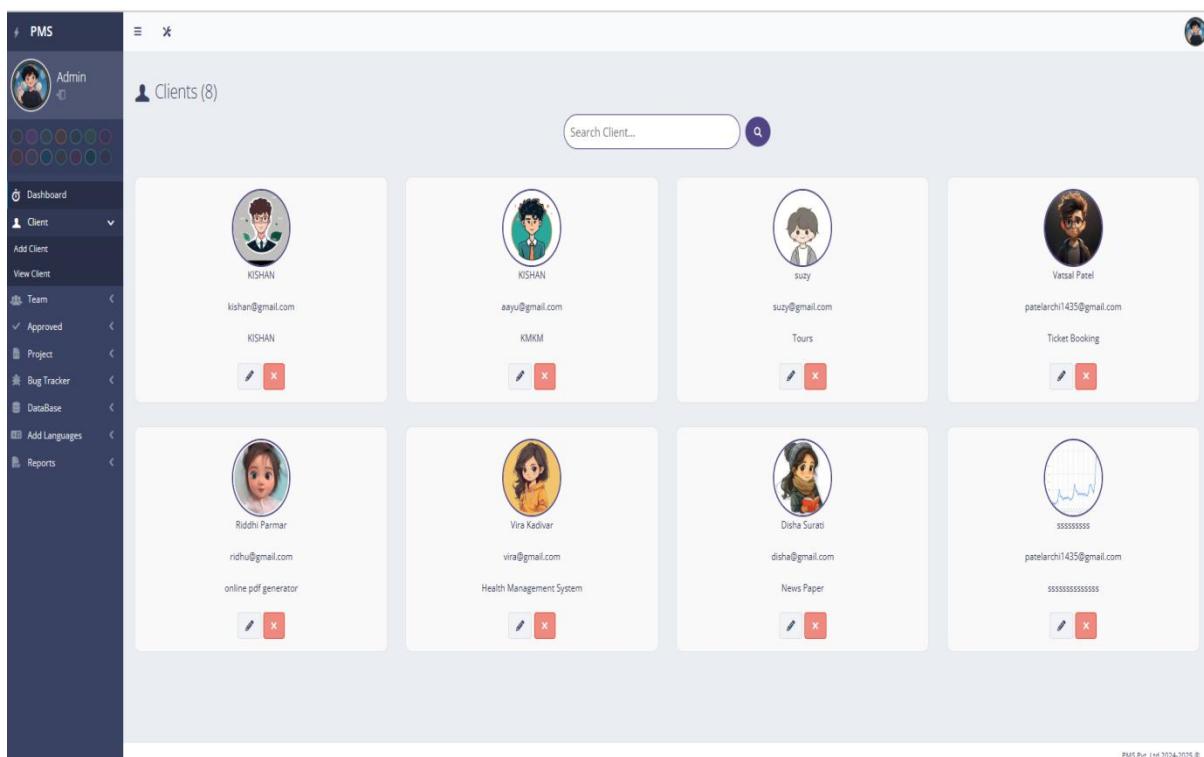


The screenshot shows a 'Client Info' form with several validation errors indicated by red asterisks (*).

- Company Name***: Please enter a Company Name.
- Address***: Please Enter Address...
- City***: Please enter city name.
- State***: Please enter state name.
- Pincode***: Please Pincode. Please enter pincode of your area.
- Countries***: Search Countries... Please enter country name.
- Website***: Please enter website.
- Image upload***: Choose File No file chosen. Please Select Image.
- Client Name***: Client Name. Please enter client name.
- Job Title***: Job Title. Please enter job title.
- Phone Number***: (080) 999-9999. Please enter client number.
- Email ***: abc@example.com. Please enter email.
- Password ***: Choose a strong one. Please enter your password.
- Confirm Password ***: And confirm it! Please confirm your password.
- Registration Date***: 00/00/0000. Please enter date.

At the bottom right, there are 'Add Client' and 'Close' buttons.

View Client :



The screenshot shows a 'Clients (8)' view with a search bar and a list of clients:

Client Profile	Client Name	Email	Actions
	KISHAN	kishan@gmail.com	edit remove
	KMKM	aayu@gmail.com	edit remove
	suzy	suzy@gmail.com	edit remove
	Vansal Patel	patelarchi1435@gmail.com	edit remove
	Riddhi Parmar	riddhi@gmail.com	edit remove
	Vira Kadivar	vira@gmail.com	edit remove
	Disha Surati	disha@gmail.com	edit remove
	Pananchi	pananchi1435@gmail.com	edit remove

At the bottom right, there is a copyright notice: PMS Pvt. Ltd 2024-2025 ©.

View and Update Client Data :

Delete :

Add Team Member :

The screenshot shows the 'Add Employee' form within the PMS application. The left sidebar has a dark blue background with various icons and labels: Dashboard, Client, Team (selected), Add Member, View Members, Approved, Project, Bug Tracker, DataBase, Add Languages, and Reports. The main area has a light gray header with 'Add Employee' and a close button. Below it is a section titled 'Employee Info' with the following fields:

- Name*: Employee Name (input field)
- Type*: Select (dropdown menu)
- Position*: Select (dropdown menu)
- Email*: test@example.com (input field)
- Telephone*: (999) 999-9999 (input field)
- Password*: create unique one (input field)
- Image upload*: Choose File (input field)

At the bottom are two buttons: 'Add Team' (blue) and 'Cancel' (orange).

Validation :

This screenshot shows the same 'Add Employee' form as above, but with validation errors applied to each field:

- Name*: Employee Name (input field) - has a red border and a red error message: 'Please enter name'.
- Type*: Select (dropdown menu) - has a red border and a red error message: 'Please enter team type'.
- Position*: Select (dropdown menu) - has a red border and a red error message: 'This field is required.'
- Email*: test@example.com (input field) - has a red border and a red error message: 'Please enter email'.
- Telephone*: (999) 999-9999 (input field) - has a red border and a red error message: 'Please enter telephone number'.
- Password*: create unique one (input field) - has a red border and a red error message: 'Please enter your password'.
- Image upload*: Choose File (input field) - has a red border and a red error message: 'Please Select Image'.

The 'Add Team' and 'Cancel' buttons at the bottom remain the same.

View All Members :

The screenshot shows the 'View Employee' page in the PMS application. The left sidebar contains navigation links for Admin, Dashboard, Client, Team (Add Member, View Members), Approved, Project, Bug Tracker, DataBase, Add Languages, and Reports. The main content area has a search bar at the top labeled 'Search employee...'. Below it, there are three sections: 'Developers (6)', 'Team Leaders (3)', and 'Tester (3)'. Each section displays cards for individual team members, each with a profile picture, name, email, and programming language.

Section	Member	Email	Programming Language
Developers (6)	Avi Kadivar	avi@gmail.com	PHP
	Vaibhav Chotaliya	v@gmail.com	PHP
	Rinkal Parmar	rinka@gmail.com	PHP
	Swara Patel	swara@gmail.com	Python
Team Leaders (3)	Vatsal Patel	vatsu@gmail.com	Python
	Komal Gohil	k@gmail.com	Python
Tester (3)	Archi Patel	archi@gmail.com	PHP
	Isha Rathod	i@gmail.com	PHP
	Mishra Patel	mishra@gmail.com	Python
Tester (3)	Disha Rabari	disha@gmail.com	PHP
	Vishwa Patel	vishwa@gmail.com	PHP
	Sneha Ramani	sneha@gmail.com	Python

Validation :

Add Employee

Employee Info

Name*	<input type="text" value="Employee Name"/>	Please enter name
Type*	<input type="text" value="Select"/>	Please enter team type
Position*	<input type="text" value="Select"/>	This field is required.
Email*	<input type="text" value="test@example.com"/>	Please enter email
Telephone*	<input type="text" value="(999) 999-9999"/>	Please enter telephone number
Password*	<input type="text" value="create unique one"/>	Please enter your password
Image upload* <input type="button" value="Choose File"/> No file chosen		
<input type="button" value="Update Team"/> <input type="button" value="Cancel"/>		

Delete :

View Employee

Search employee...

Developers (6)

- Alvi Kadiar (av@gmail.com, PHP)
- Rinkal Parmar (rinkal@gmail.com, PHP)
- Swara Patel (swaru@gmail.com, Python)
- Vanshu Patel (vanshu@gmail.com, Python)
- Komal Gohil (k@gmail.com, Python)

Are you sure?

Once deleted, you will not be able to recover this record!

Cancel OK

Team Leaders (3)

localhost/pms/pms/view_add_team.php#

Approved :

Profile Pic	Company Name	Website	Job Title	Name	Actions
	www	https://www.google.com	online pdf generator	Riddhi Parmar	<button>Approved</button>
	horizon.pvtld	https://www.google.com	Health Management System	Vira Kadivar	<button>Approved</button>
	not	https://www.google.com	News Paper	Disha Surasi	<button>Approved</button>
	ssssssssss	https://www.google.com	ssssssssssss	ssssssss	<button>Approved</button>

Approve Project Form

1. Project

Title * (Required)

Project Deadline* (Required)

Description * (Required)

Programming Language* (Required)

Database* (Required)

Amount * (Required)

2. Team

Back Next

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Validation :

Approve Project Form

1. Project

2. Team

Title * online pdf generator

Project Deadline* dd/mm/yy
Please enter Date

Description * Enter Project Description
Please enter Description

Programming Language* Select
Please enter Language

Database* Select
Please enter Database

Amount* Please Enter Amount.
Please enter Amount.

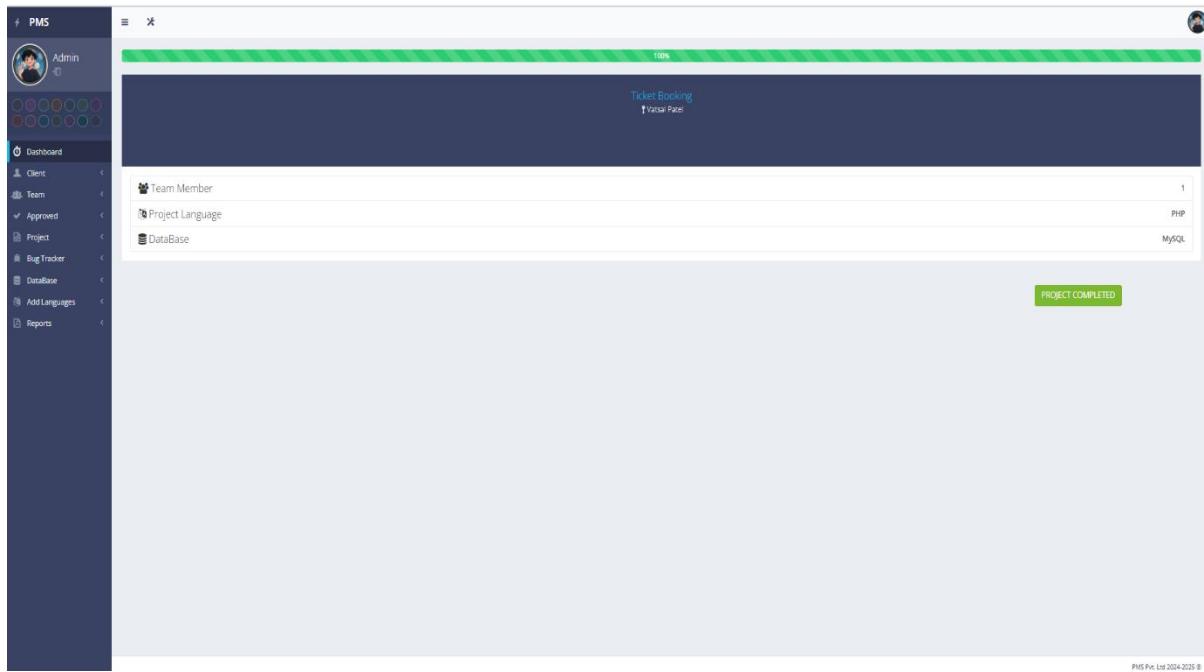
[Back](#) [Next](#)

View Project :

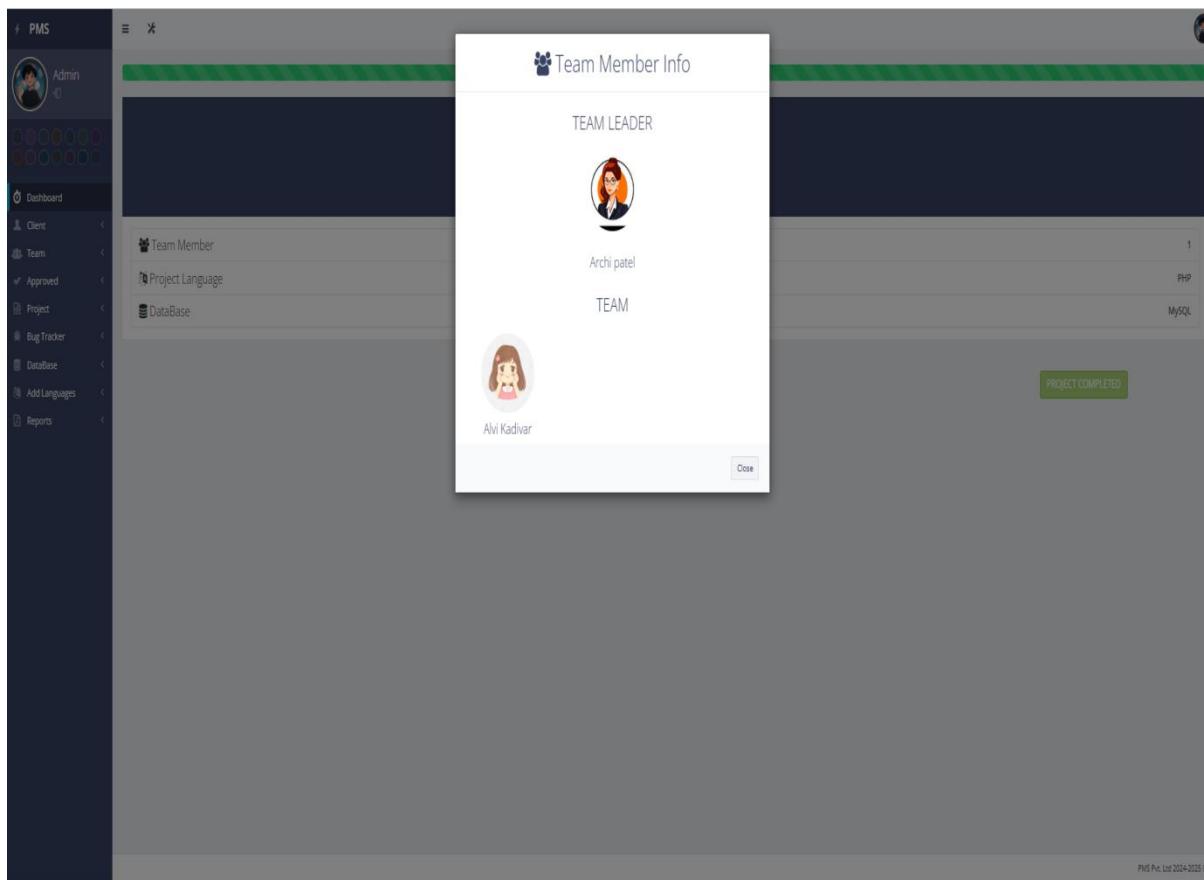
View Project

Title	Deadline	Language	Company	DB	Amount	Actions
Ticket Booking	2025-04-06	PHP	password changer	MySQL	50000	Completed
Tours	2025-04-18	Python	horizon pytd	SQLSERVER	6000	Status
KISHAN	2025-05-04	PHP	XYZ	MySQL	7000	Status

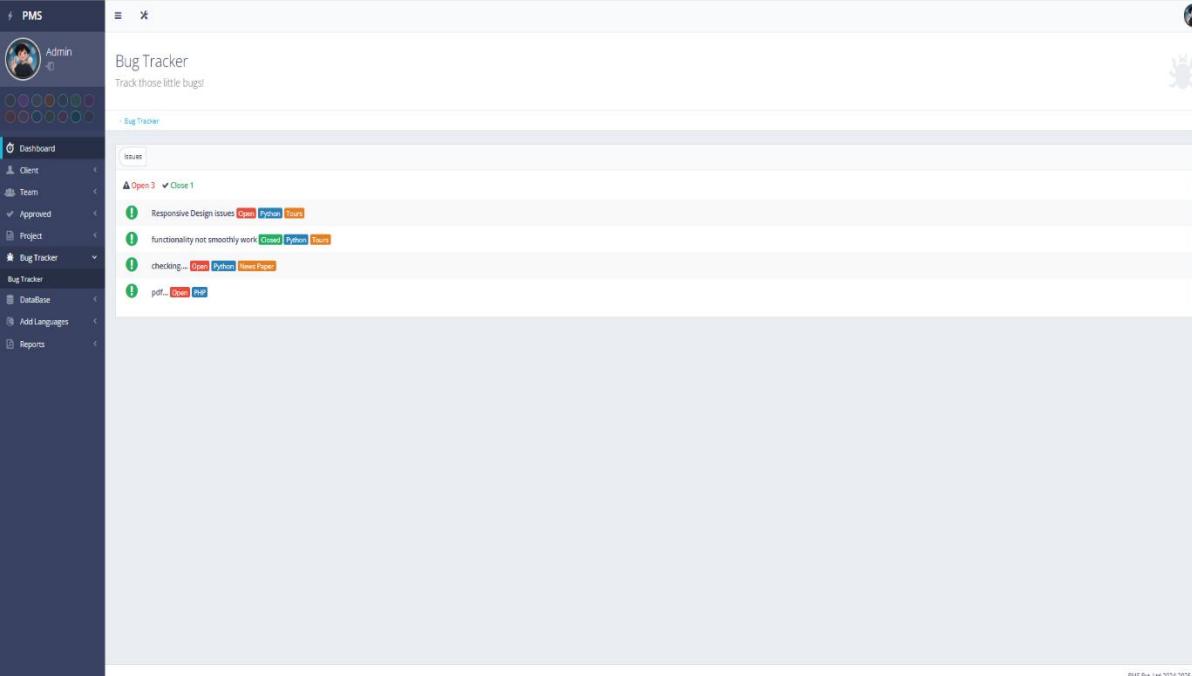
Check status :



View team member :



Bug tracker :

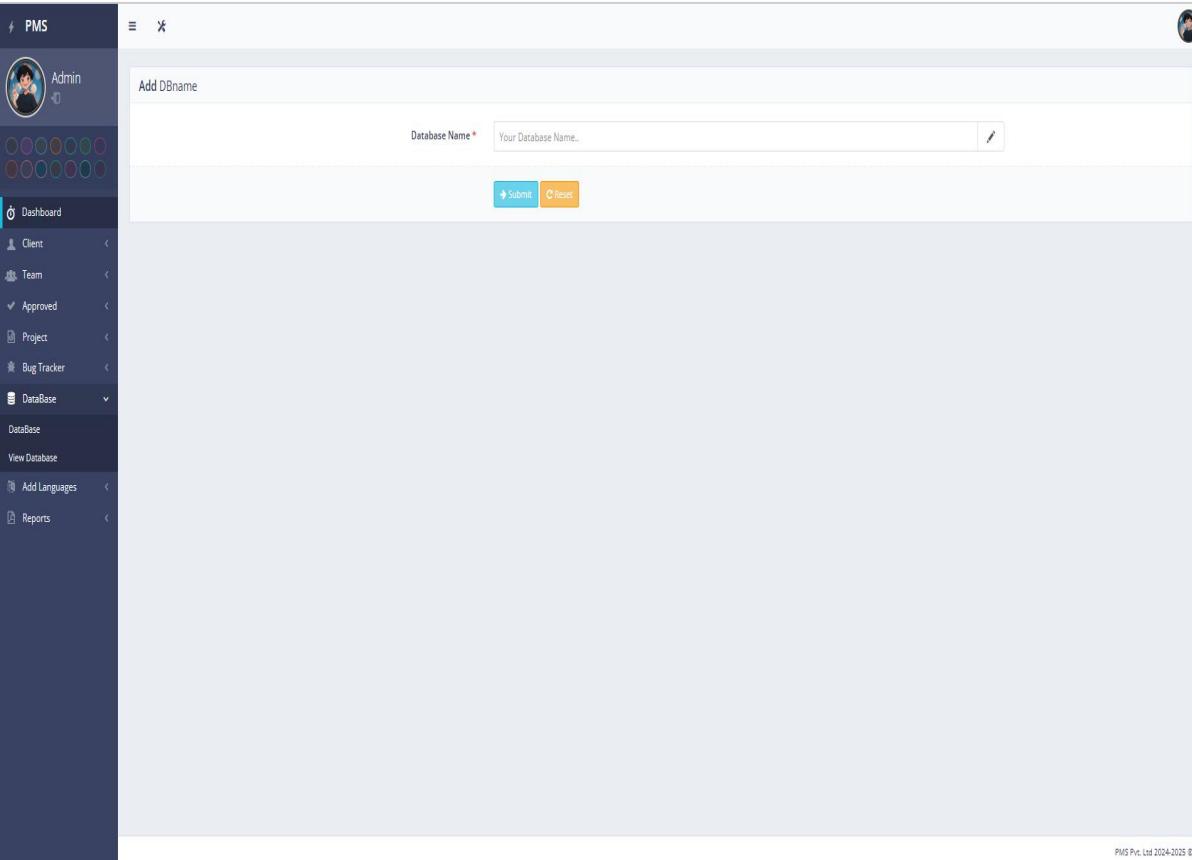


The screenshot shows the 'Bug Tracker' module within the PMS application. The left sidebar includes 'Client', 'Team', 'Approved', 'Project', 'Bug Tracker' (which is currently selected), 'DataBase', 'Add Languages', and 'Reports'. The main content area is titled 'Bug Tracker' with the subtitle 'Track those little bugs!'. It displays a list of 'Issues' with the following details:

- Responsive Design issues**: Status: Open, Language: Python, Tools: CSS
- functionality not smoothly work**: Status: Closed, Language: Python, Tools: CSS
- checking...**: Status: Open, Language: Python, Newer Paper
- pdf...**: Status: Open, Language: PHP

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Database :

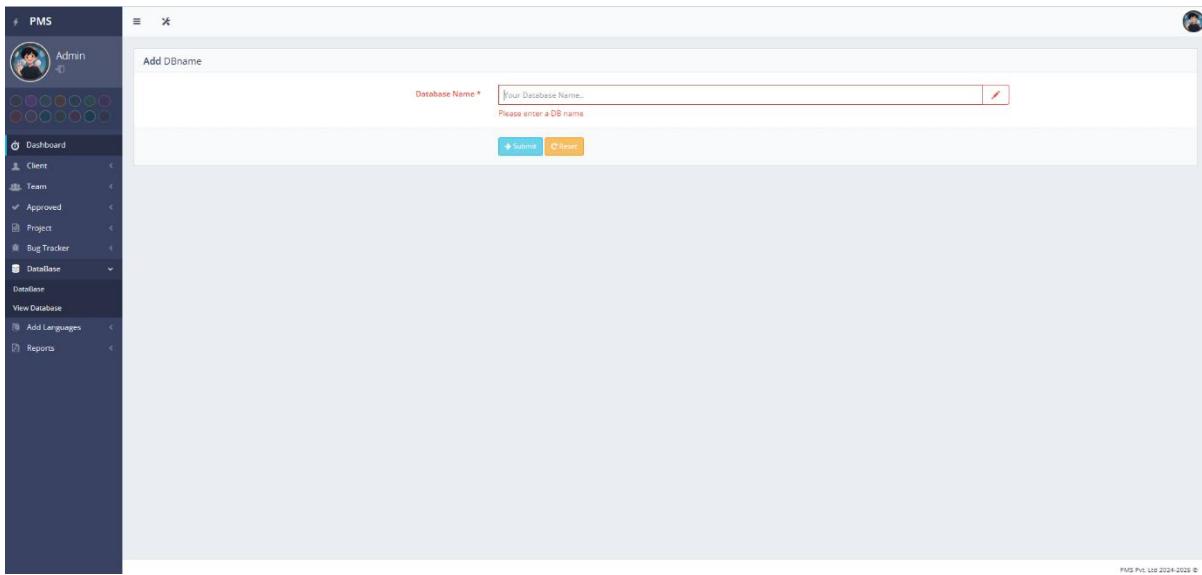


The screenshot shows the 'Database' module within the PMS application. The left sidebar includes 'Client', 'Team', 'Approved', 'Project', 'Bug Tracker', 'DataBase' (which is currently selected), 'View Database', 'Add Languages', and 'Reports'. The main content area is titled 'Add DBname' and contains a form with the following fields:

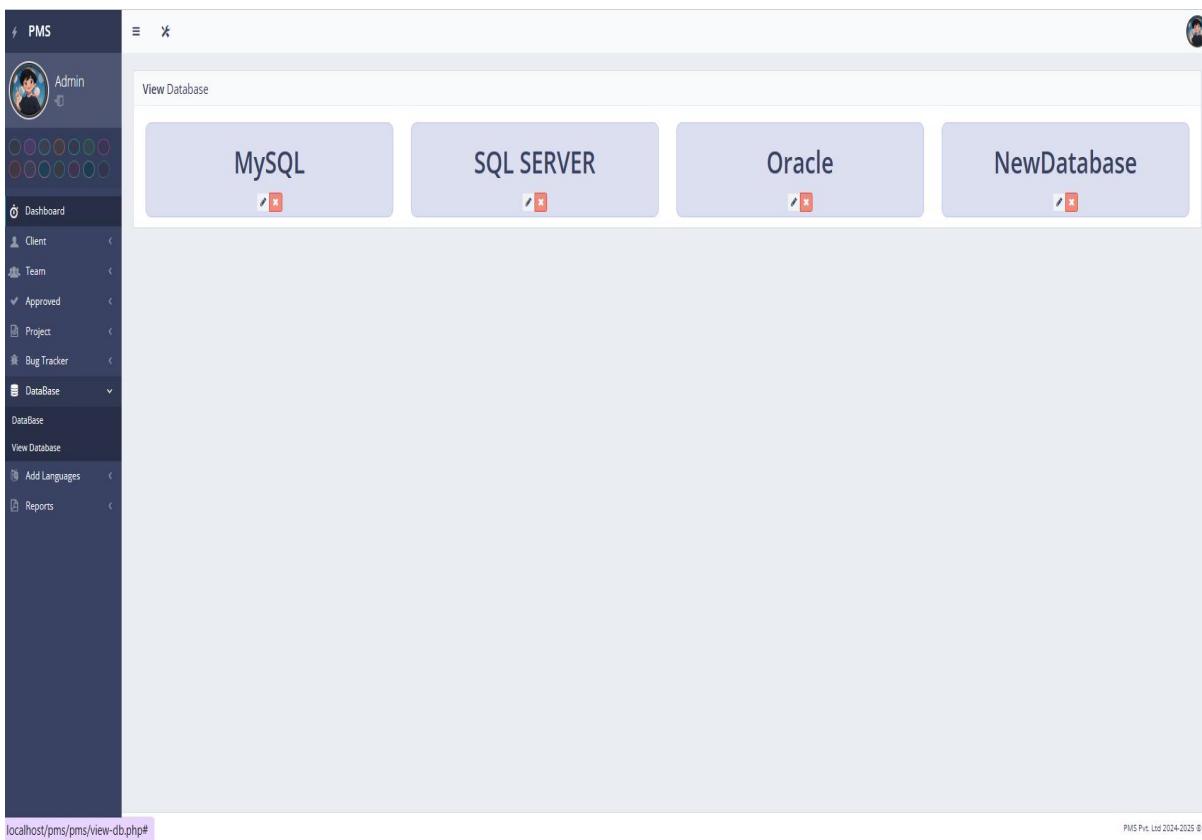
- Database Name***: A text input field with placeholder text 'Your Database Name...' and a pencil icon.
- Submit** and **Reset** buttons at the bottom.

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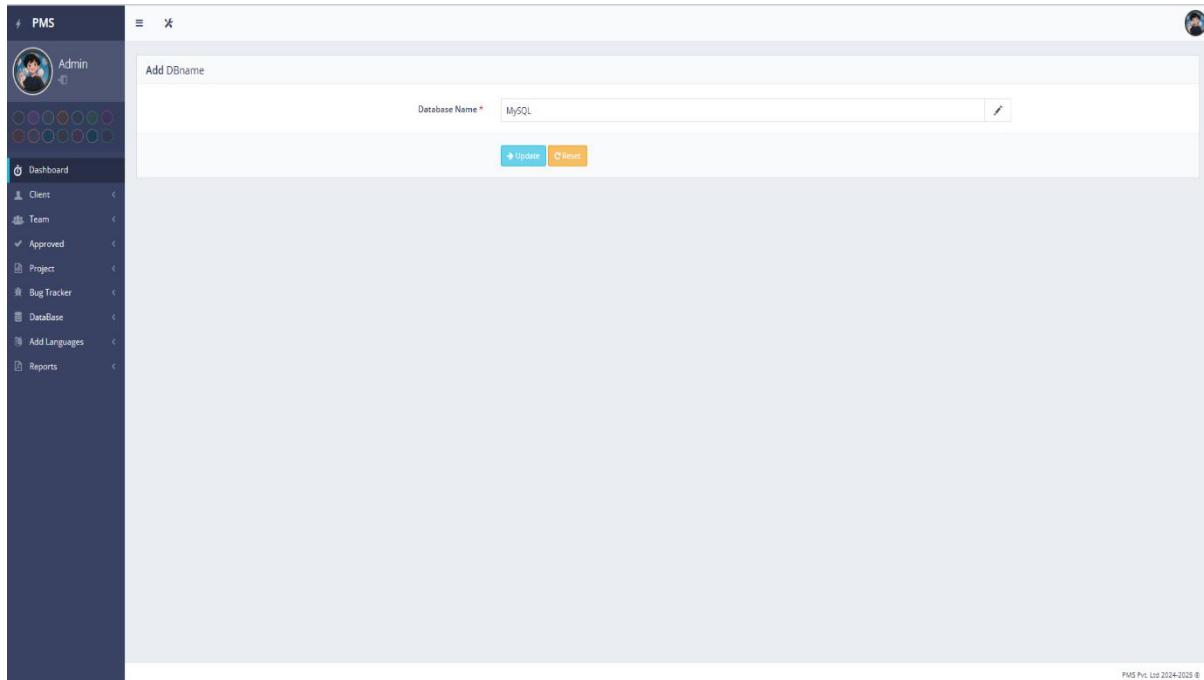
Validation :



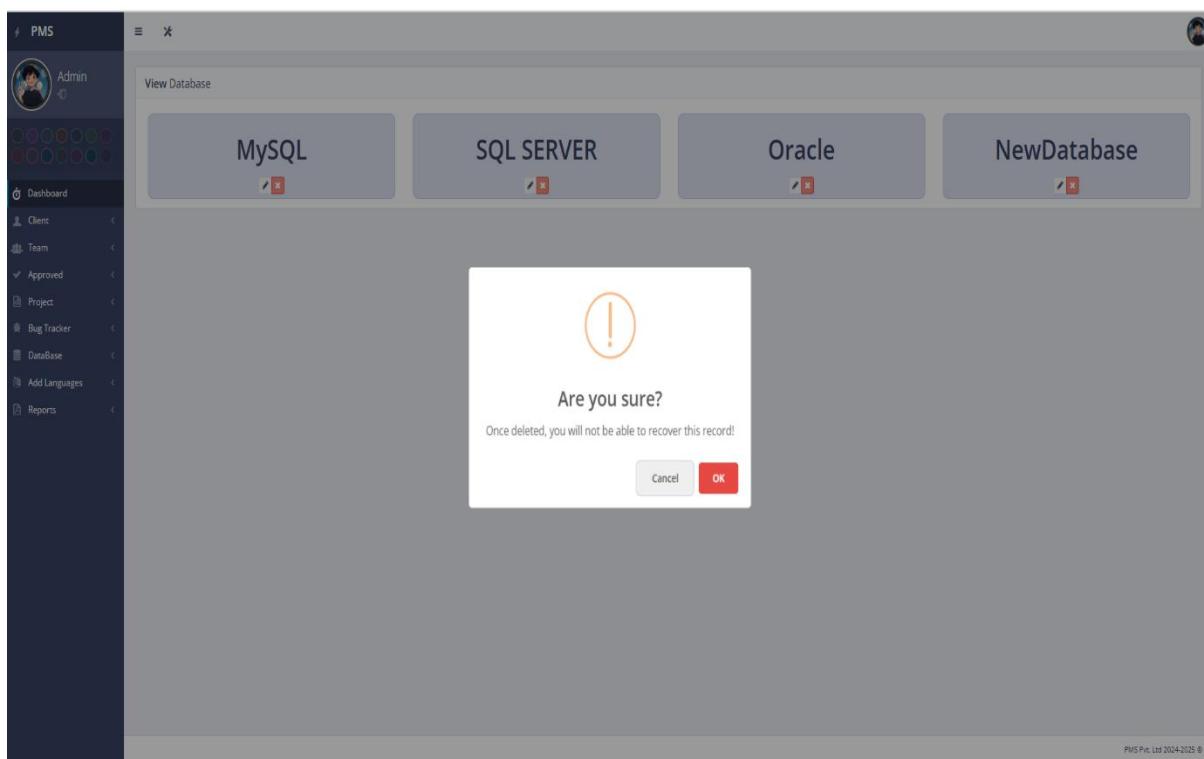
View database :



Edit database :



Delete :

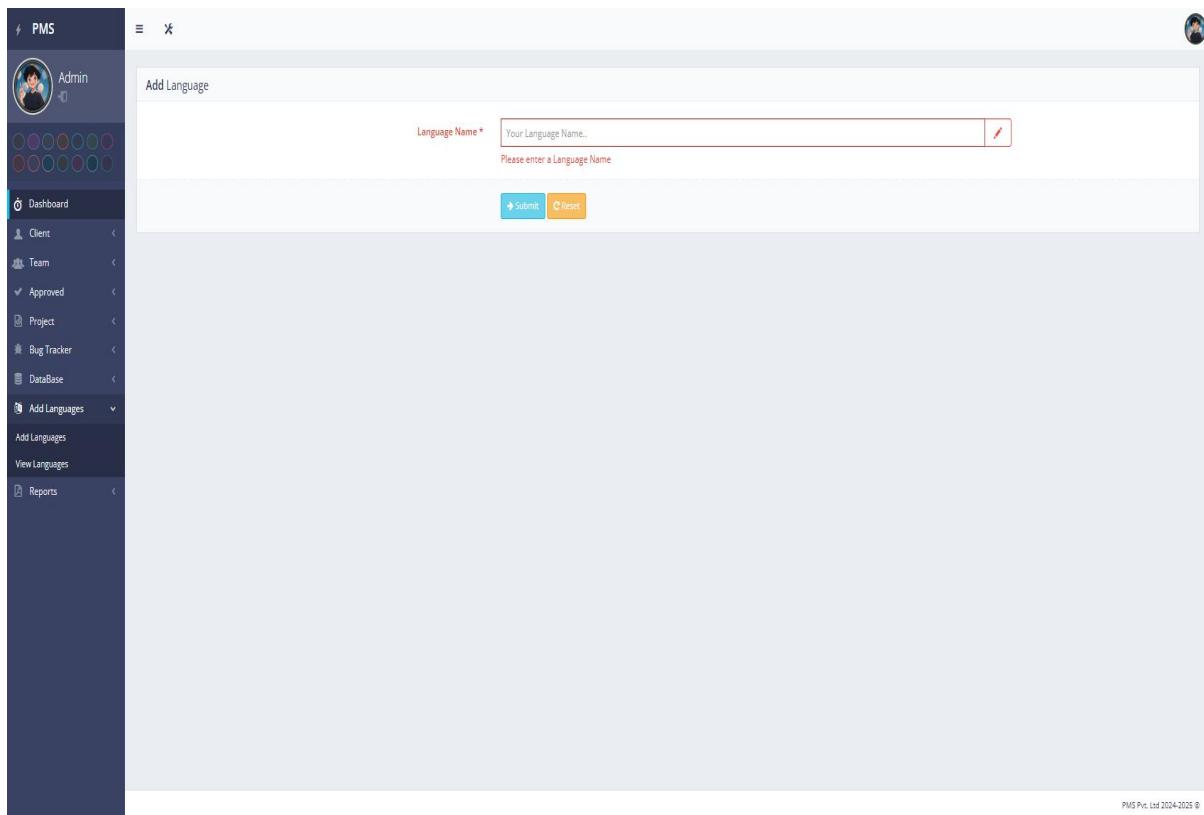


Add Language :

The screenshot shows the PMS application interface. On the left is a dark blue sidebar with various project management icons and a user profile picture. The main area has a light gray header with the title 'Add Language'. Below the header is a form with a single input field labeled 'Language Name *' containing the placeholder 'Your Language Name...'. There is also a small edit icon next to the input field. At the bottom of the form are two buttons: a blue 'Submit' button with a right-pointing arrow and a yellow 'Reset' button with a circular arrow icon.

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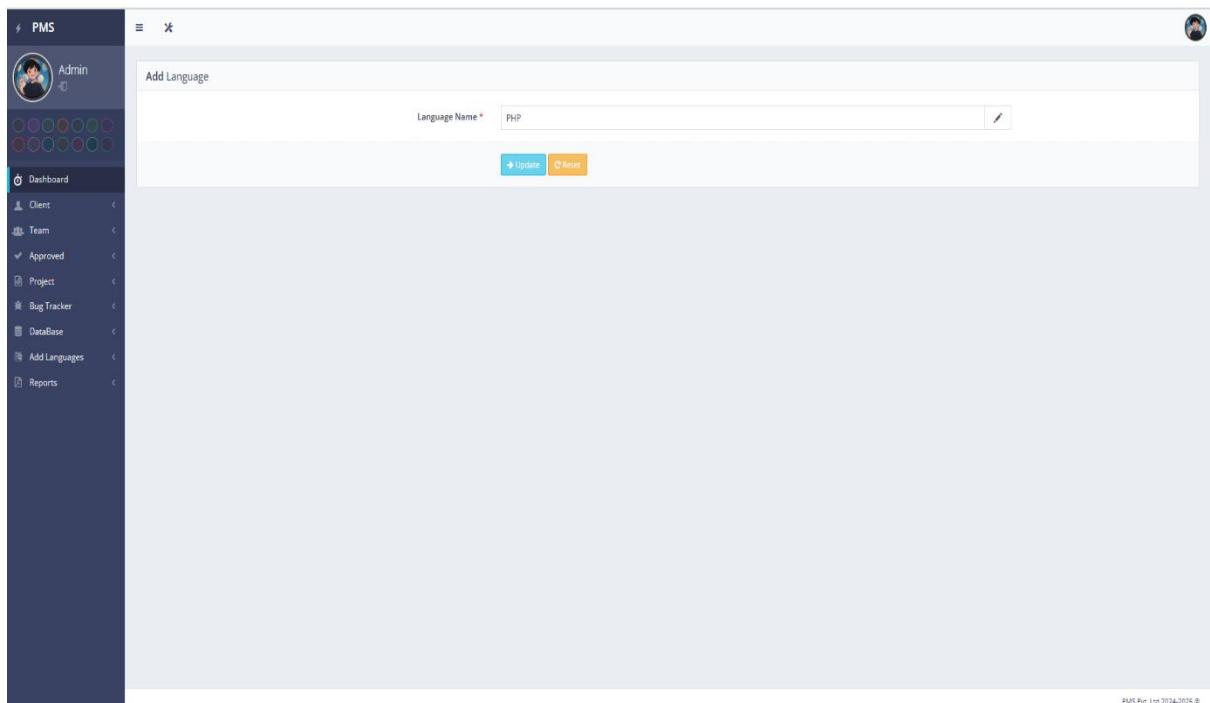
Validation :



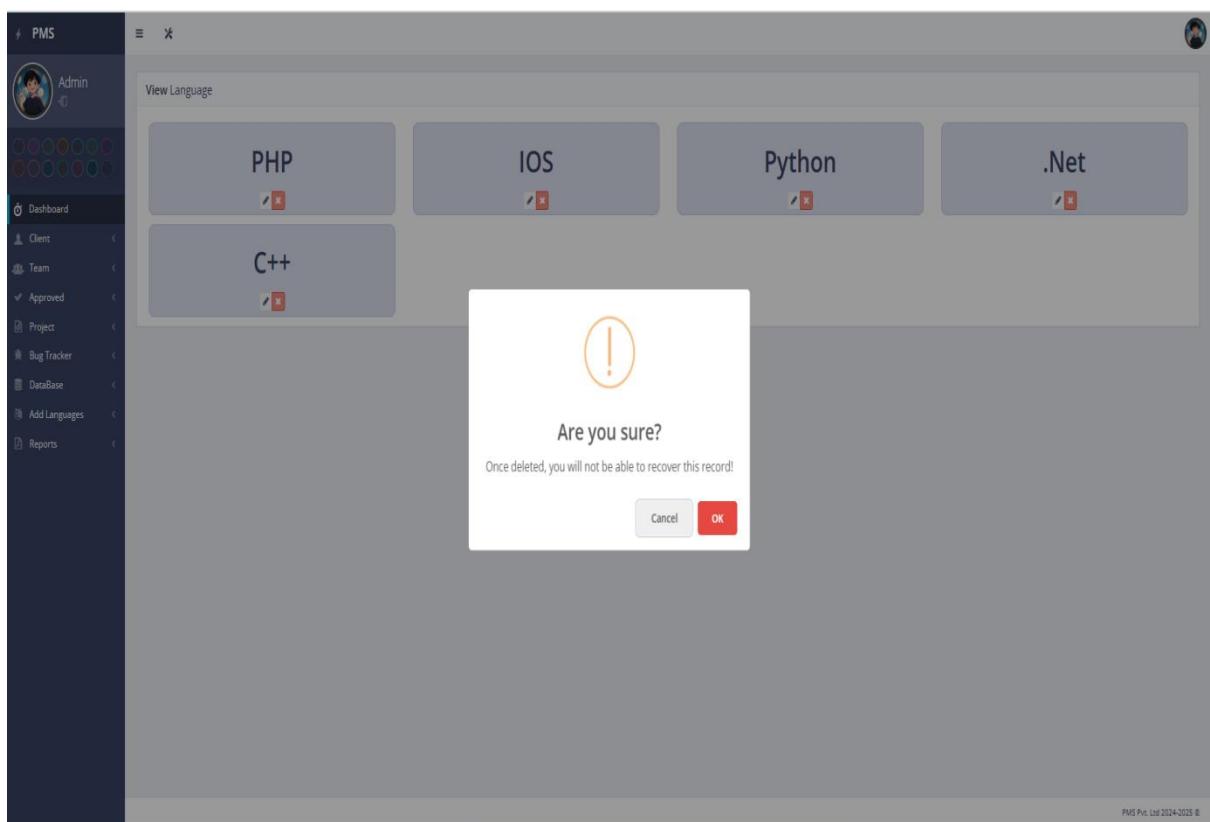
View Language :



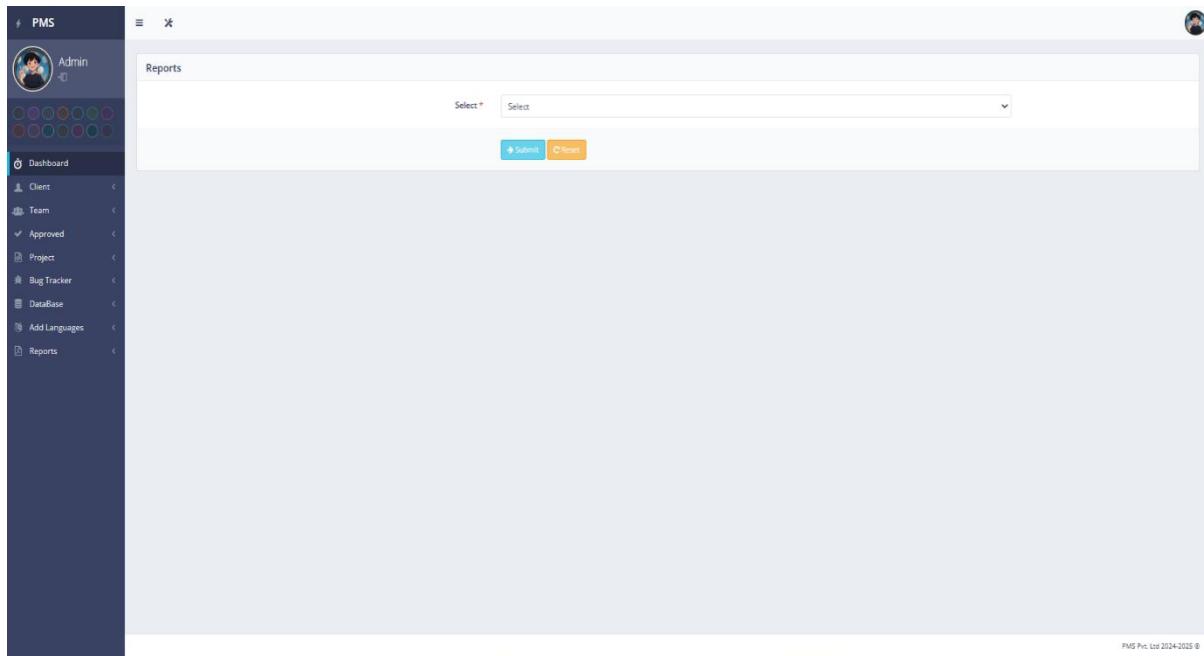
Edit :



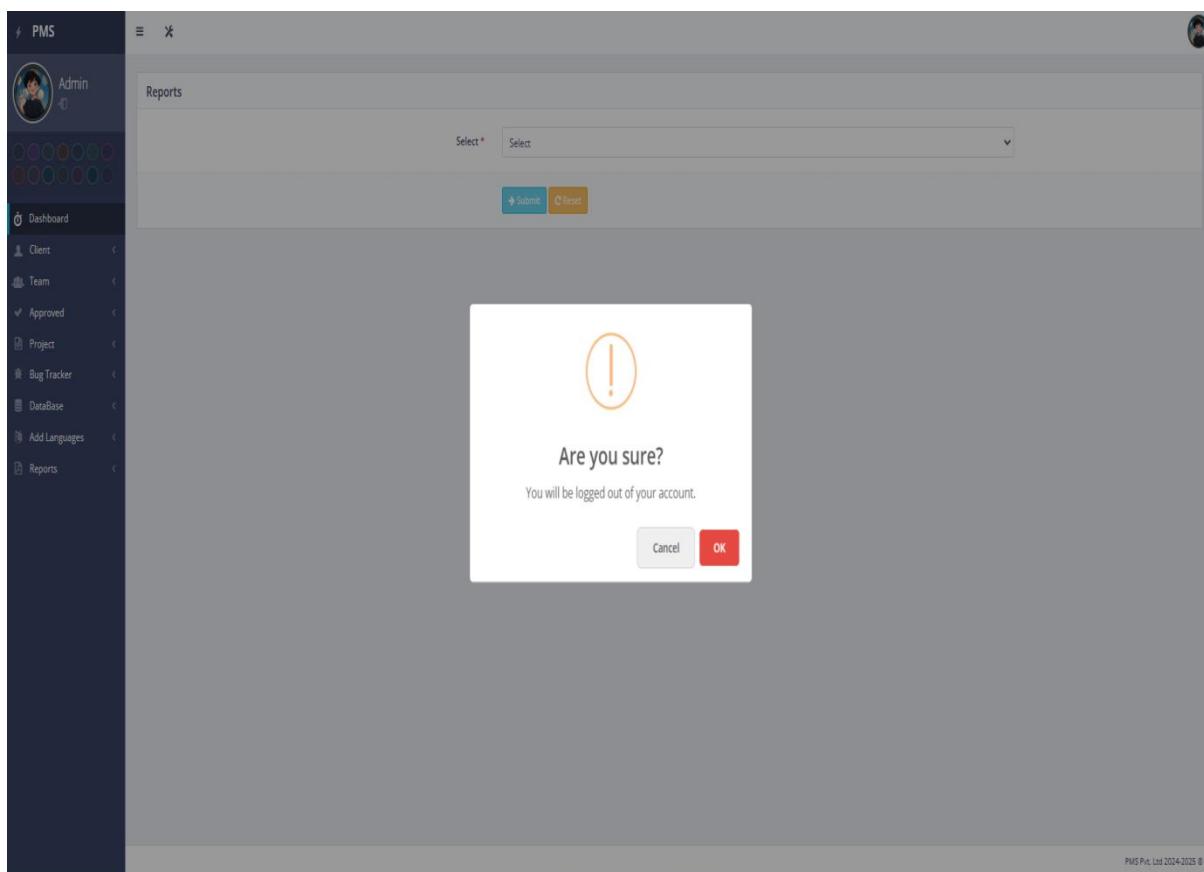
Delete :



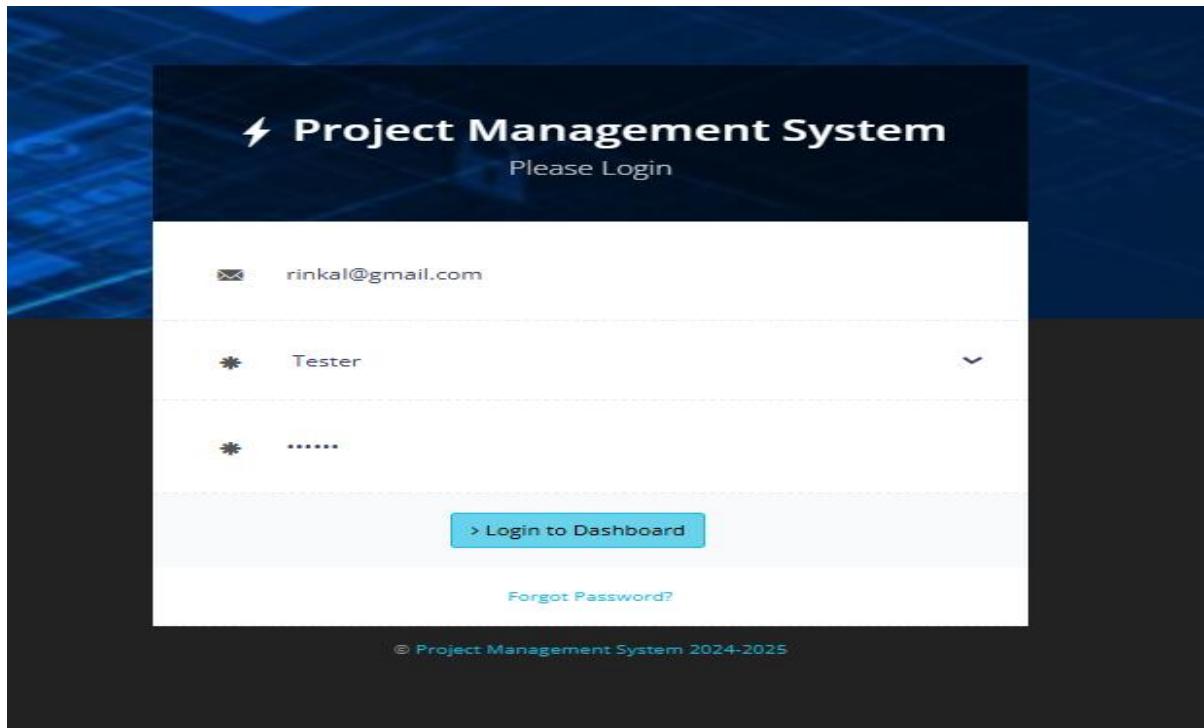
View Report :



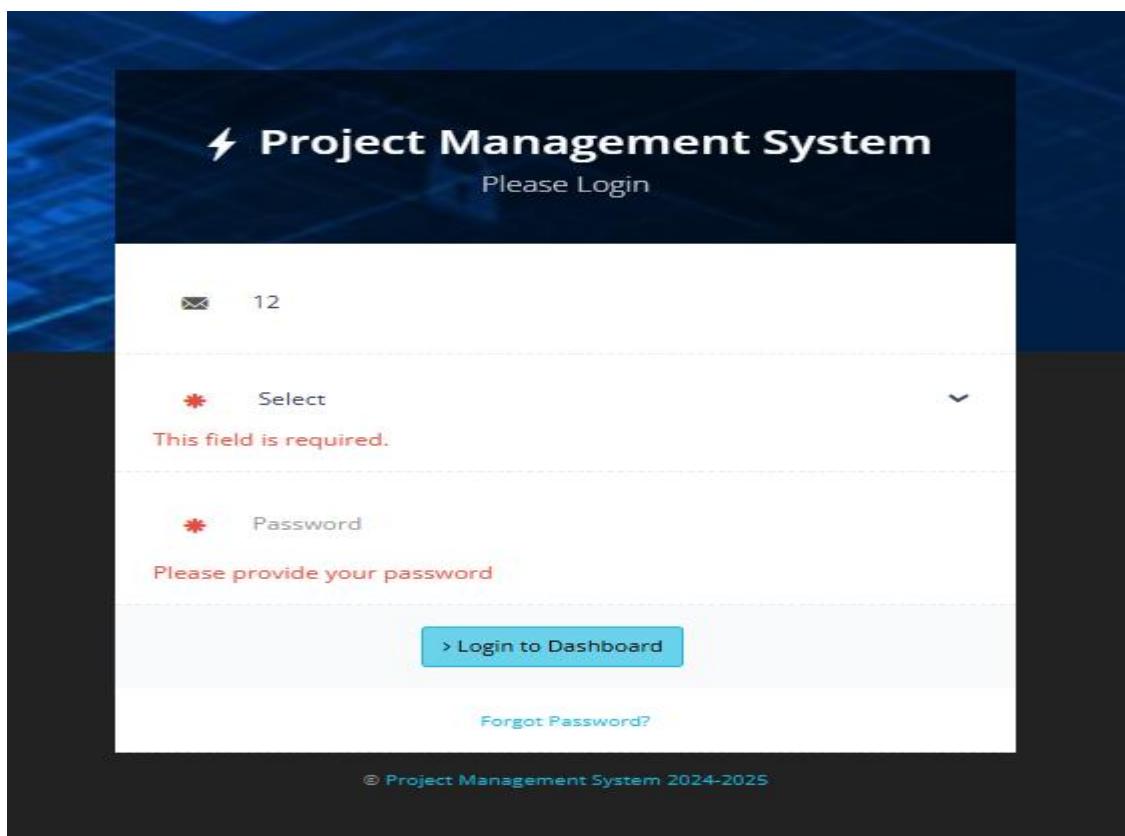
Logout :



Tester Login :



Validation :



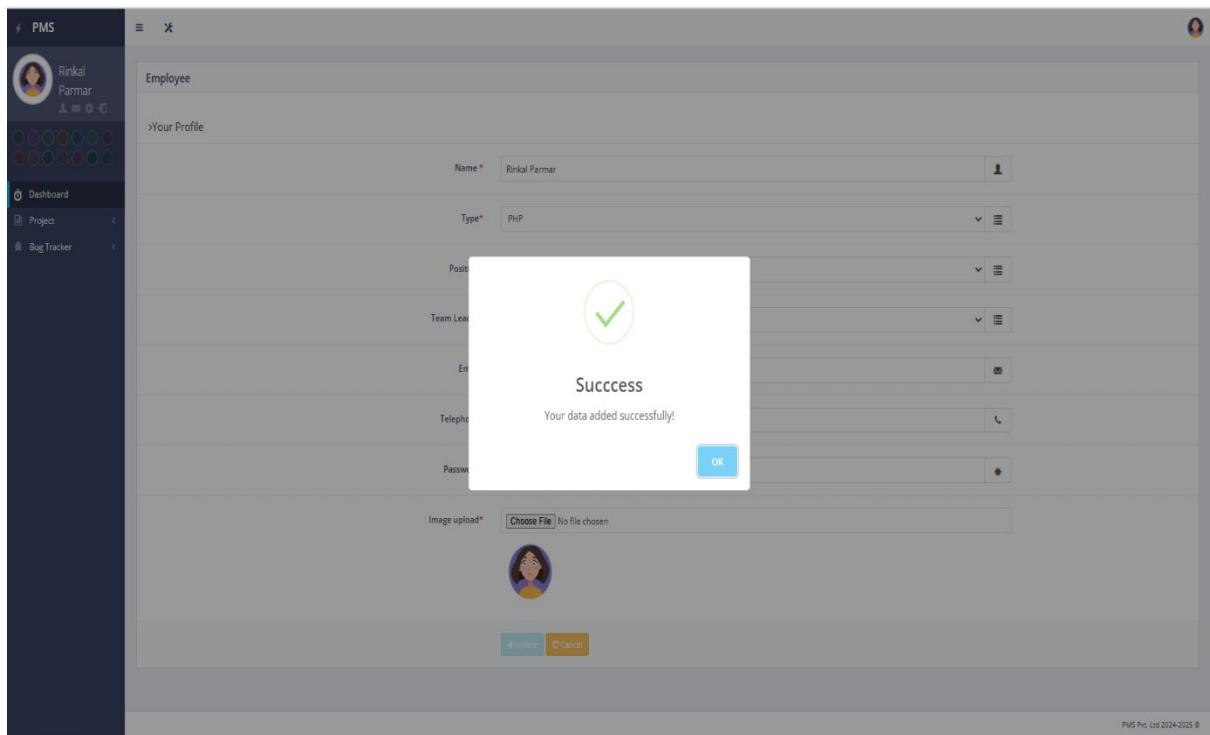
Tester Dashboard :

The screenshot displays the Tester Dashboard interface. On the left, a sidebar includes a user profile for 'Rinkal Parmar' (PROJECT MANAGEMENT SYSTEM) and links for 'Dashboard', 'Project', and 'Bug Tracker'. The main area features a dark-themed header with the user's name and a blurred background image of a tachometer. Below the header, four orange circular icons provide quick access to 'Total Languages' (5), 'Database Use' (4), 'Total Employees' (12), and a 'Gallery' section titled 'Awesome Gallery' containing three flower photos.

View Profile :

The screenshot shows the 'View Profile' page for 'Employee' 'Rinkal Parmar'. The page follows the same dark-themed layout as the dashboard. It includes a sidebar with the user's profile and links for 'Dashboard', 'Project', and 'Bug Tracker'. The main content area contains a form for editing the employee's details. Fields include Name* (Rinkal Parmar), Type* (PHP), Position* (Developer), Team Leader* (Select), Email* (rinkel@gmail.com), Telephone* (6574839021), Password* (*****), and an Image upload field with a preview of a profile picture. At the bottom, there are 'Update' and 'Cancel' buttons.

Update :



View Language :



View Database :



View Total Members :

The screenshot shows the PMS application interface with a sidebar and a main content area. The sidebar includes a profile picture for Rinkal Parmar, a dashboard section with Project and Bug Tracker options, and a navigation bar with a search icon.

View Employee

Search employee...

Developers (6)

- Alvi Kadivar** (PHP, alvi@gmail.com)
- Vaibhavi Chotaliya** (PHP, v@gmail.com)
- Rinkal Parmar** (PHP, rinkal@gmail.com)
- Swaru Patel** (Python, swaru@gmail.com)
- Vatsal Patel** (Python, vatsu@gmail.com)
- Komal Gohil** (Python, k@gmail.com)

Team Leaders (3)

- Archi Patel** (PHP, archi@gmail.com)
- Isha Rathod** (PHP, i@gmail.com)
- Mishwa Patel** (Python, mishu@gmail.com)

Tester (3)

- Disha Rabari** (PHP, disha@gmail.com)
- Vishwa Patel** (PHP, vishu@gmail.com)
- Sneha Ramani** (Python, sneha@gmail.com)

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View project :

Title	Deadline	Language	Company	DB	Amount	Actions
Ticket Booking	2025-04-06	PHP	password changer	MySQL	50000	Completed
KISHAN	2025-05-04	PHP	XYZ	MySQL	7000	Status

Check Status :

100%

Ticket Booking
↑ Vatsal Patel

Team Member	1
Project Language	PHP
DataBase	MySQL

PROJECT COMPLETED

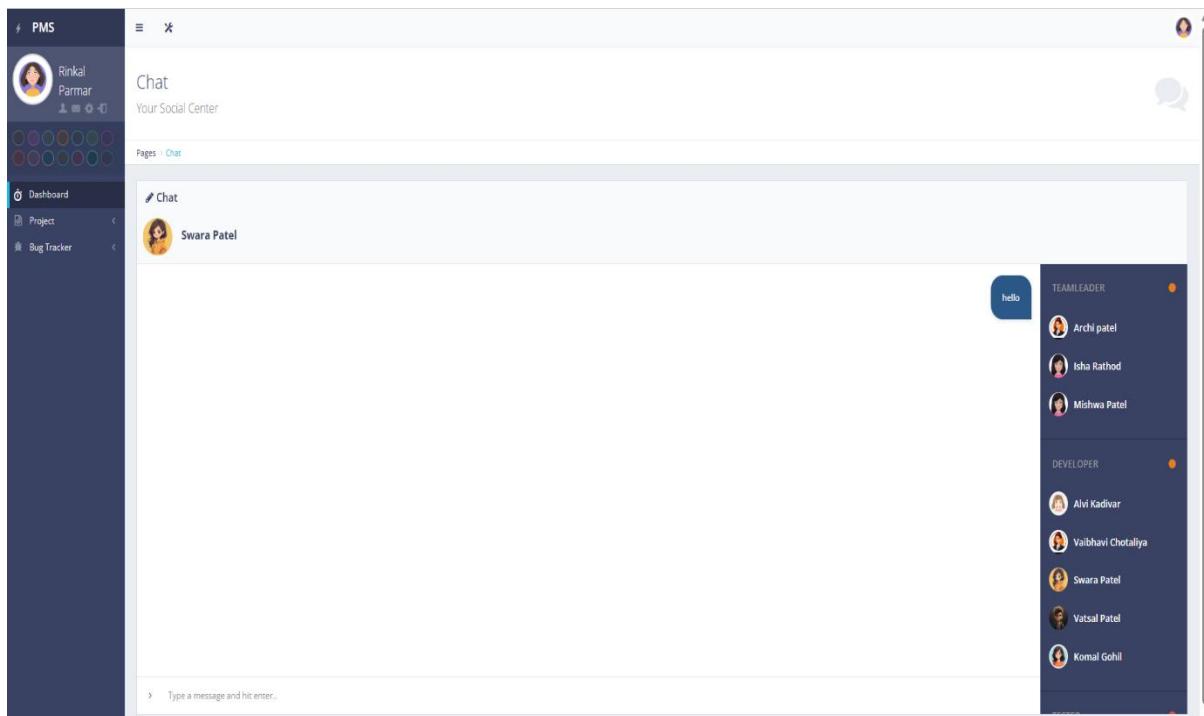
Bug Track :

The screenshot shows the PMS Bug Tracker interface. On the left, there's a sidebar with a user profile for Rinkal Parmar, a dashboard section, and a Project/Bug Tracker dropdown menu where 'Bug Tracker' is selected. The main area is titled 'Bug Tracker' with the subtitle 'Track those little bugs!'. It features a 'Issues' section with a summary: '▲ Open 3 ✓ Close 1'. Below this, four individual bug entries are listed, each with a status indicator (green for closed, red for open), a title, and tags (Python, Tours, News Paper). The first three bugs are closed, while the fourth is open.

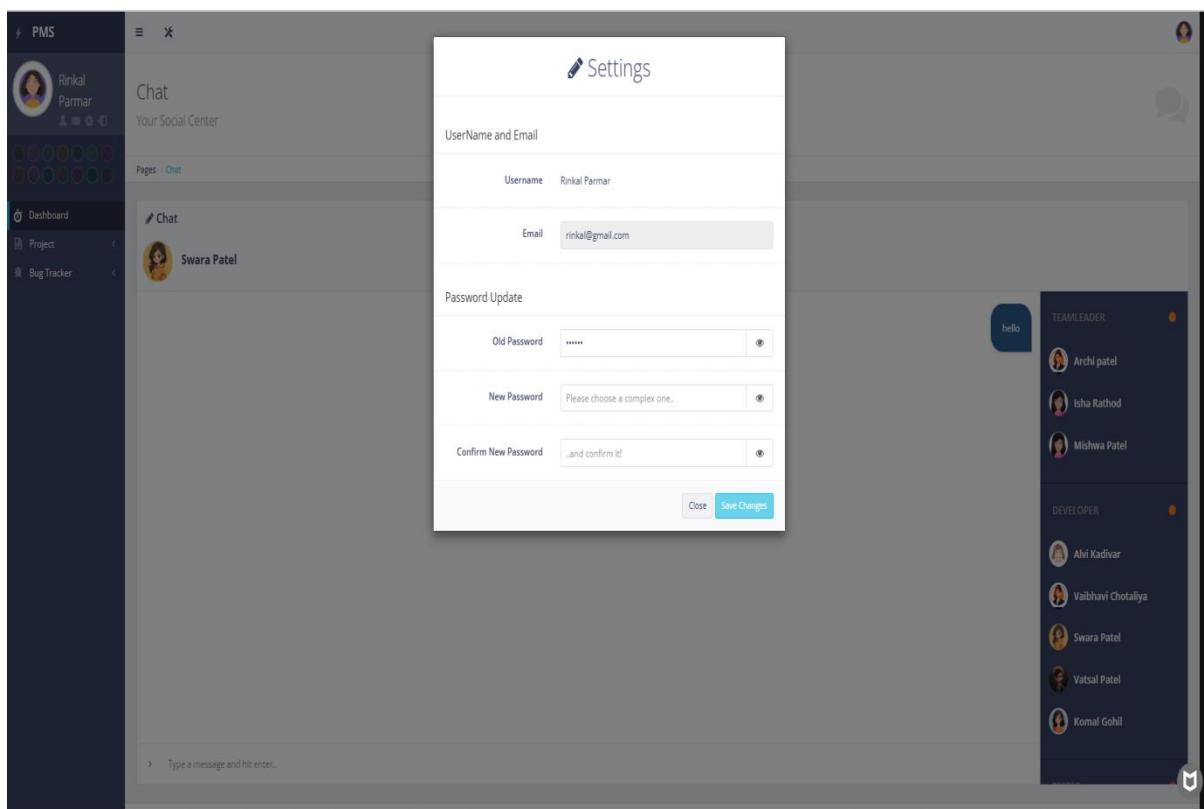
Close Bug :

This screenshot is from the same PMS Bug Tracker interface as the previous one. The sidebar and main title are identical. In the 'Issues' section, the summary now shows '▲ Open 2 ✓ Close 2'. The first two bugs listed are closed (green status), while the third and fourth bugs remain open (red status).

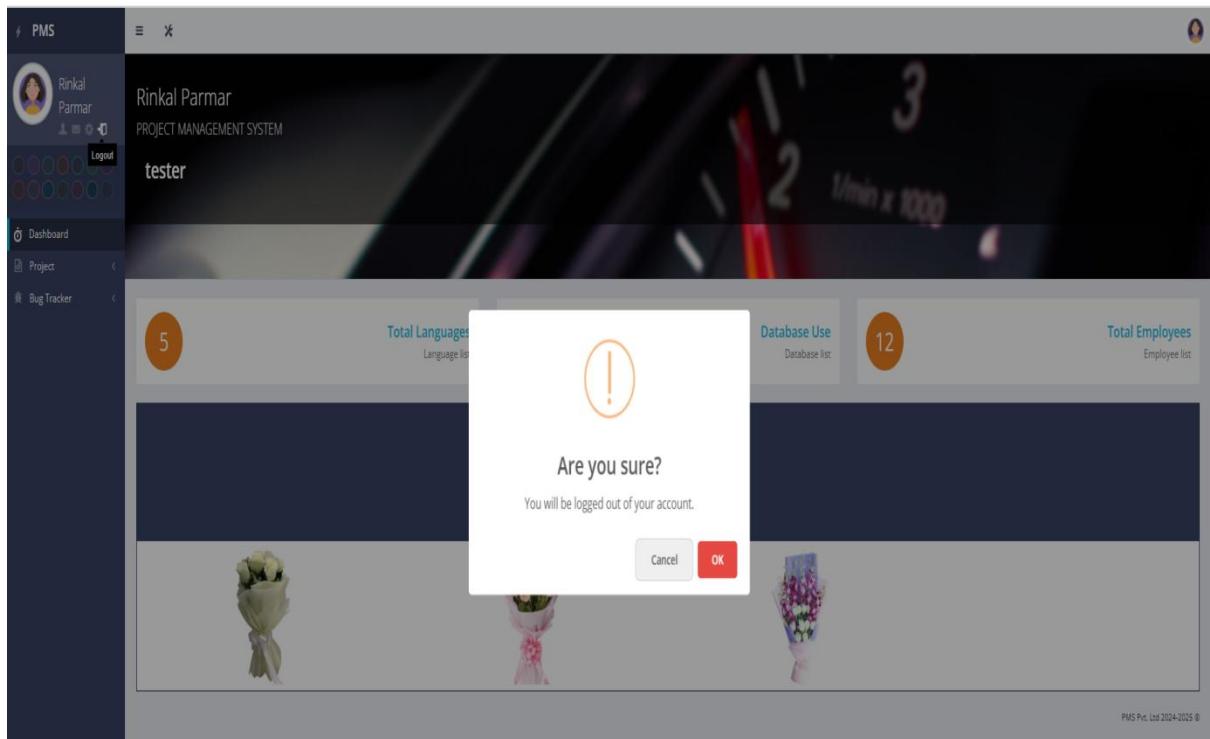
Chat :



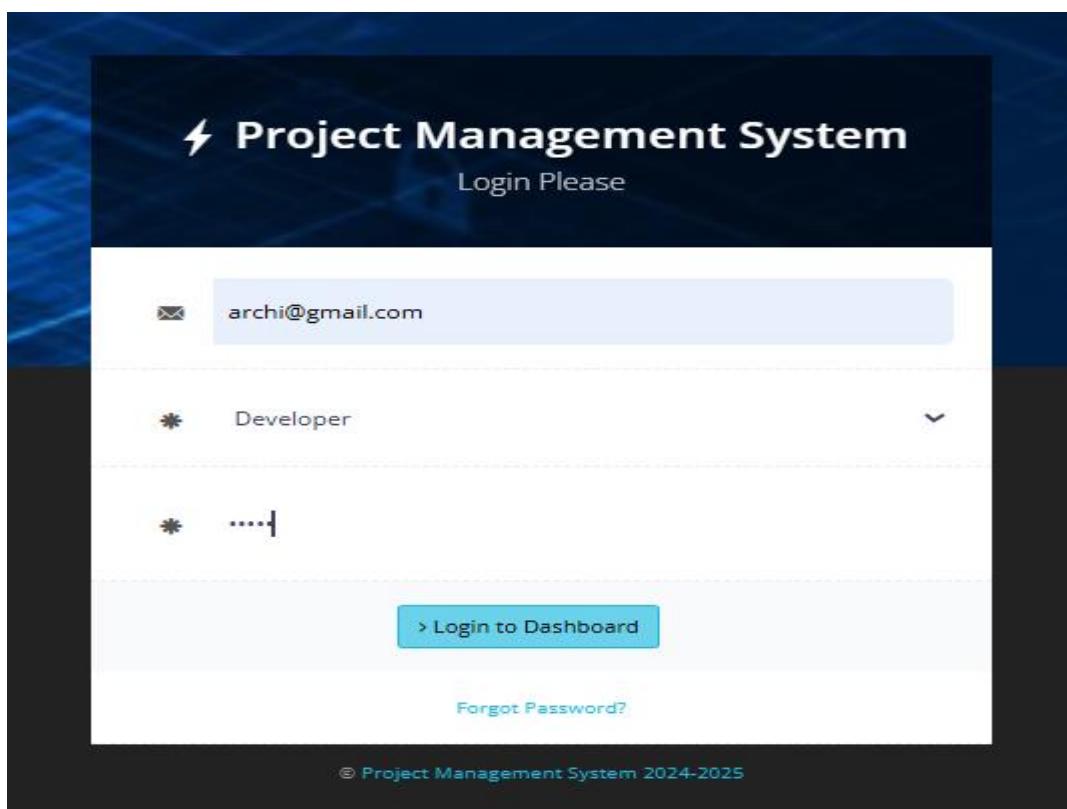
Setting :



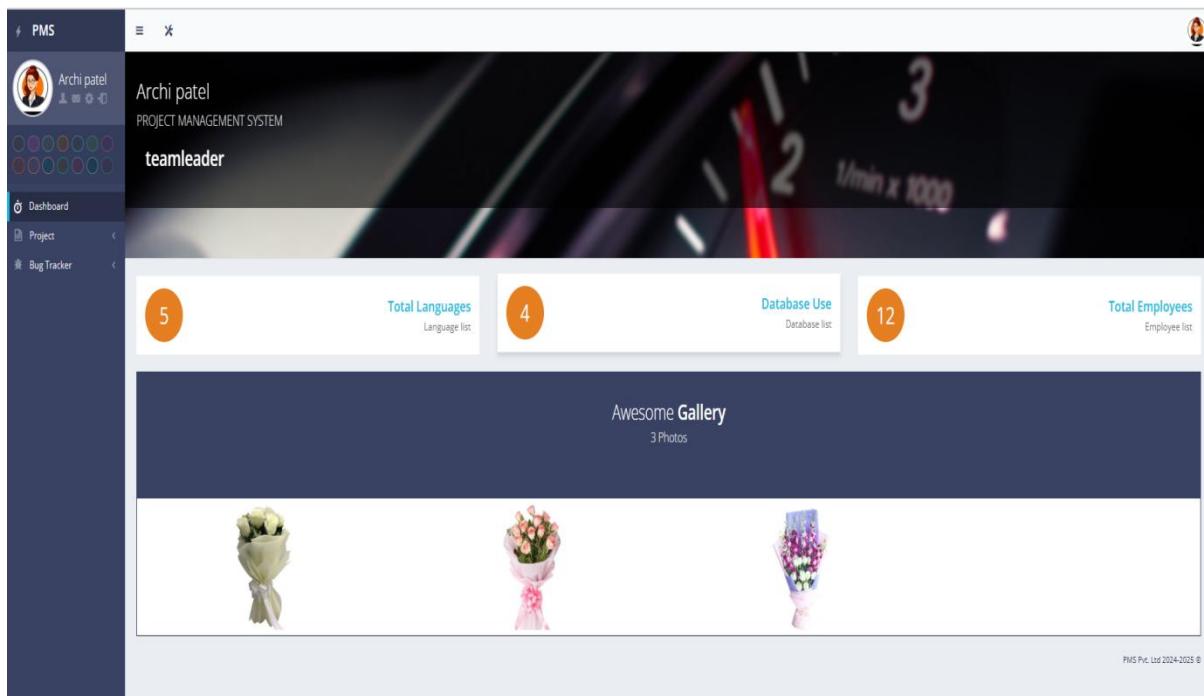
LogOut :



TeamLeader Login :



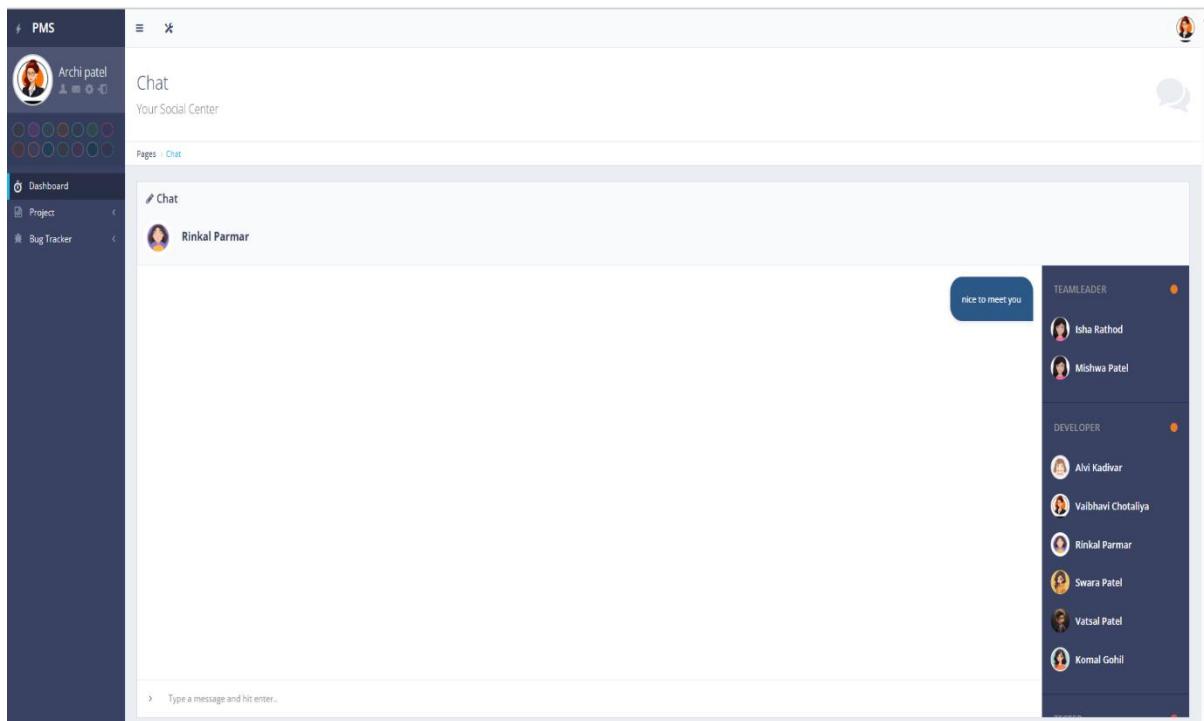
Teamleader dashboard :



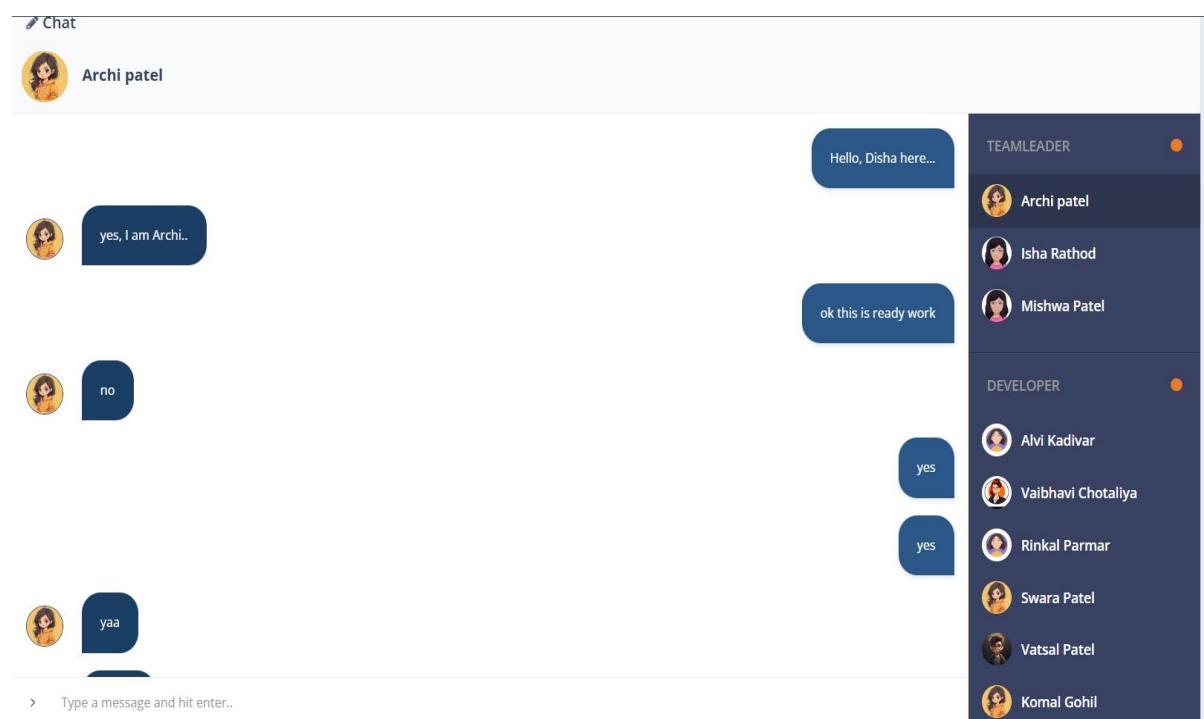
Update profile :

The screenshot shows the 'Update profile' form. The left sidebar has a 'Dashboard' section with 'Project' and 'Bug Tracker' options. The main form area is titled 'Employee' and 'Your Profile'. It contains fields for Name* (Archi patel), Type* (PHP), Position* (Team Leader), Email* (archi@gmail.com), Telephone* (9724187078), Password* (.....), and Image upload*. A preview of the uploaded profile picture (a woman with glasses) is shown below the input field. At the bottom, there are 'Update' and 'Cancel' buttons.

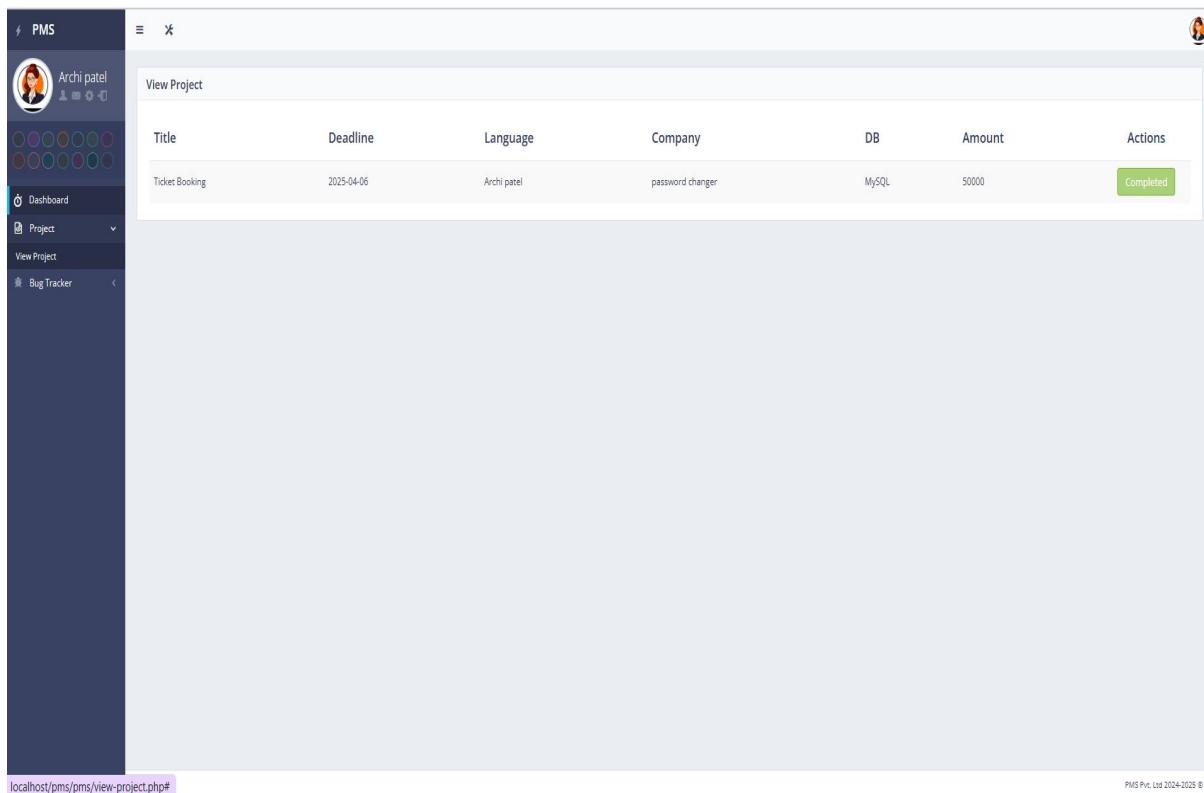
Chat :



View Message :



View Project :

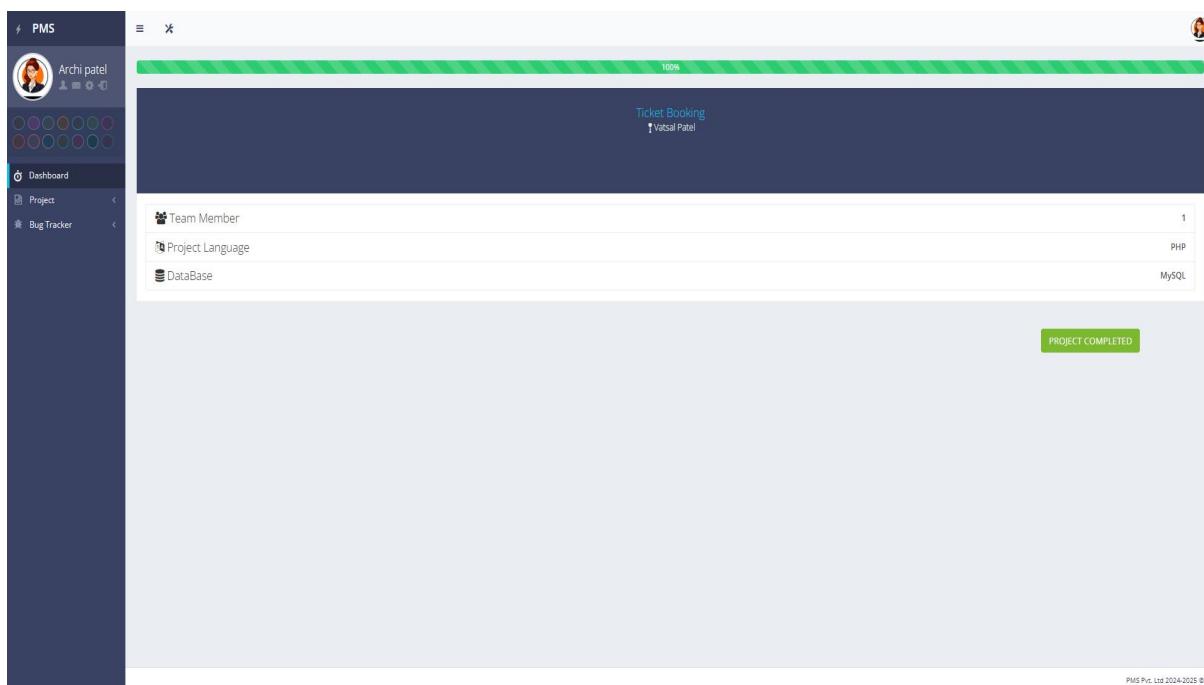


The screenshot shows a user interface for managing projects. On the left, there is a dark sidebar with a user profile picture of 'Archi patel' and several circular icons. Below the profile are navigation links: 'Dashboard', 'Project' (which is currently selected), and 'Bug Tracker'. The main content area has a title 'View Project' and a table with the following data:

Title	Deadline	Language	Company	DB	Amount	Actions
Ticket Booking	2025-04-06	Archi patel	password changer	MySQL	50000	<button>Completed</button>

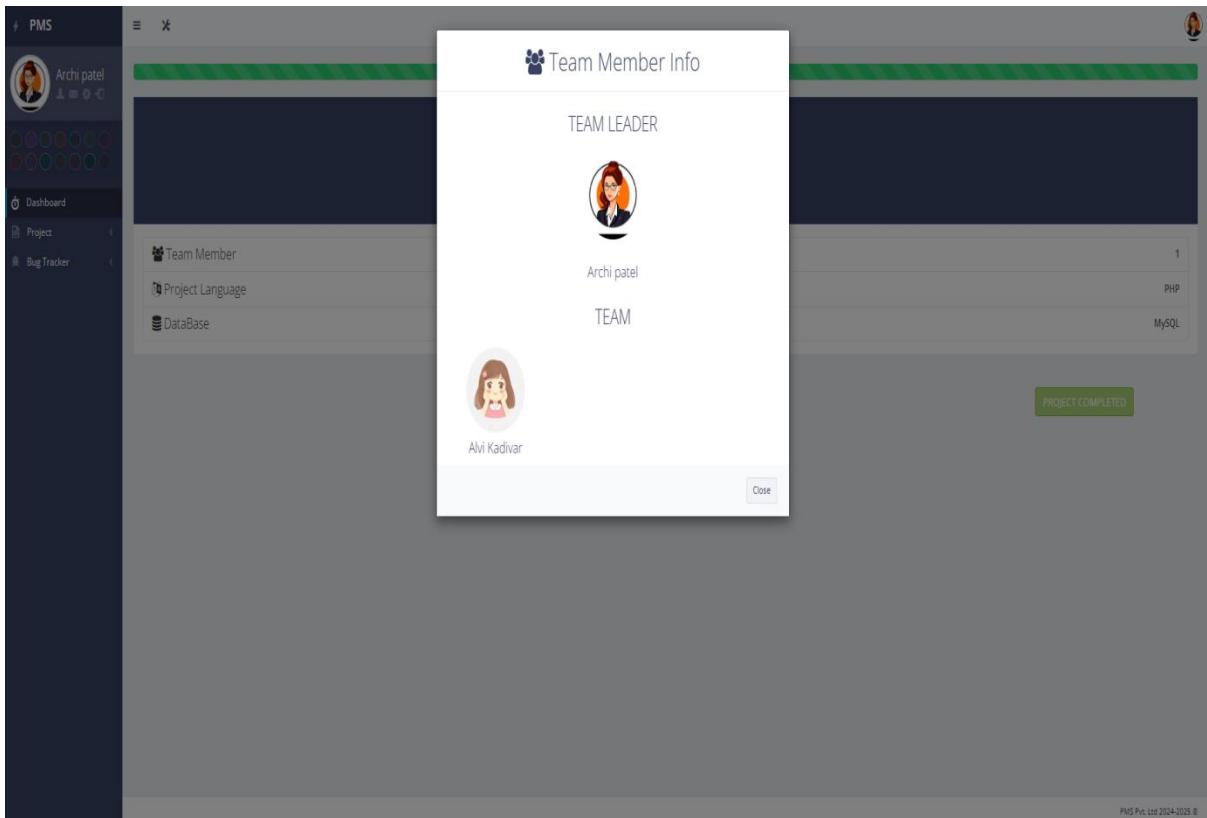
At the bottom of the page, the URL 'localhost/pms/pms/view-project.php#' is visible on the left, and 'PMS Pvt. Ltd 2024-2025 ©' is on the right.

Checked status :

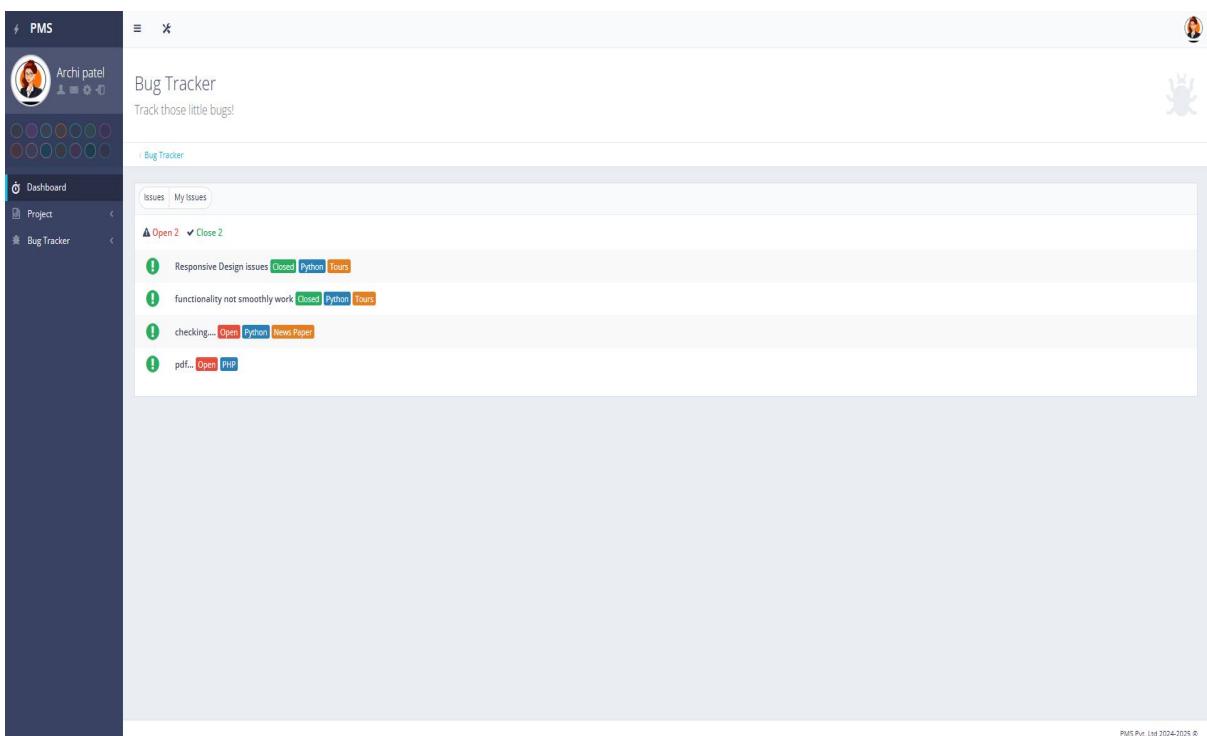


This screenshot shows the same PMS application interface. The sidebar and navigation links are identical to the previous screenshot. The main content area displays a project named 'Ticket Booking' by 'Vatsal Patel'. Above the project details, there is a green progress bar labeled '100%'. Below the project name, there are three sections: 'Team Member' (with a count of 1), 'Project Language' (PHP), and 'DataBase' (MySQL). At the bottom right of the main content area is a green button labeled 'PROJECT COMPLETED'.

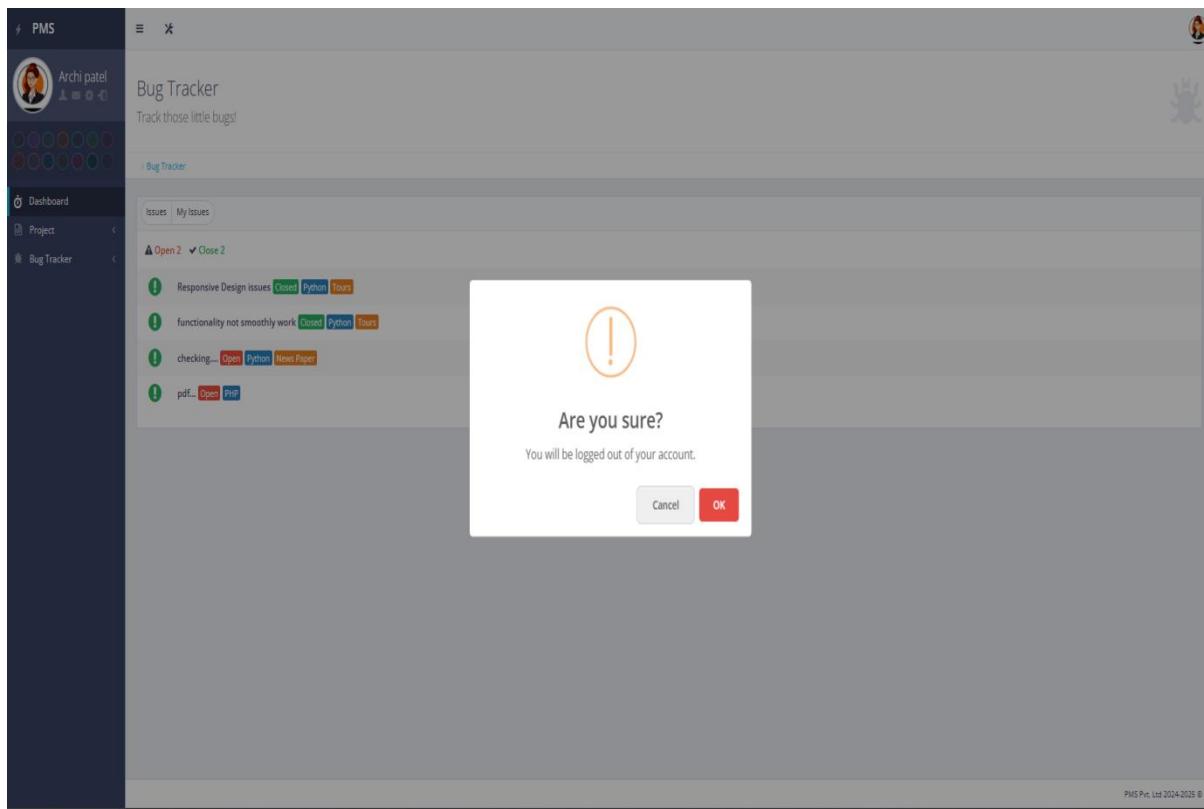
View team member :



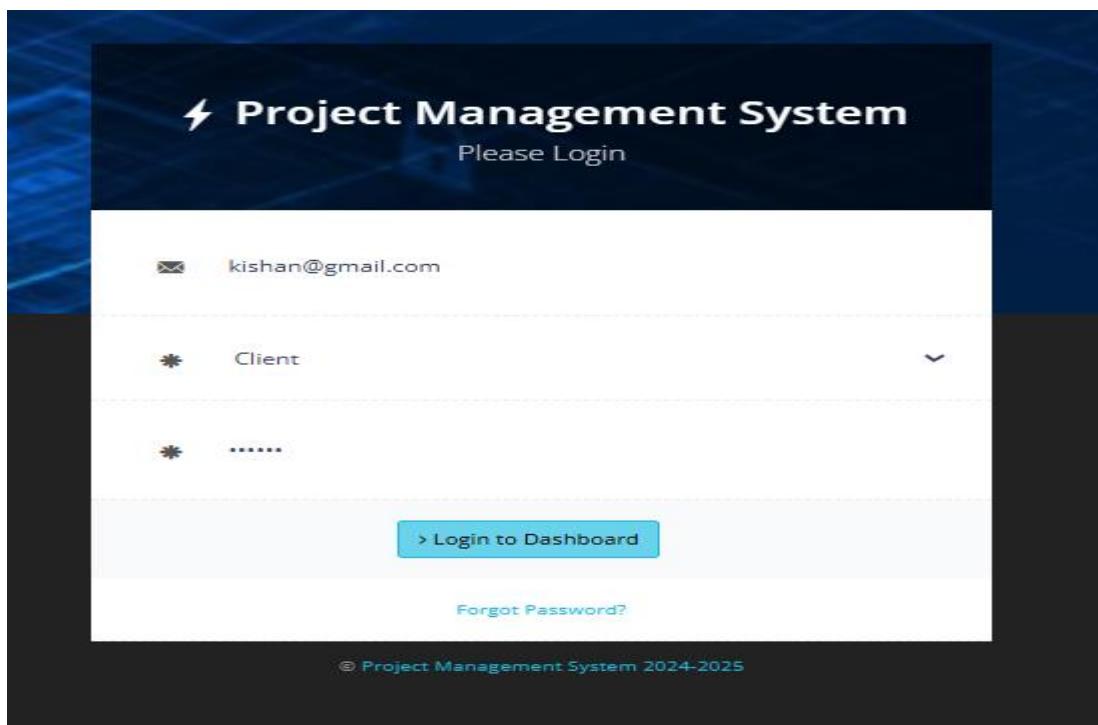
View Bug :



Logout :



Client Login :



Client dashboard :

The screenshot shows the client dashboard of the Project Management System. At the top, there's a banner with a blurred background image of a tachometer and the text "Awesome Gallery" and "3 Photos". Below the banner, there's a "Share something..." input field with a placeholder "What are you thinking?". To the right of the input field is a "Post" button. On the far right, there's an "About Us" sidebar containing information about the founders, education, projects, and best skills, along with their respective icons.

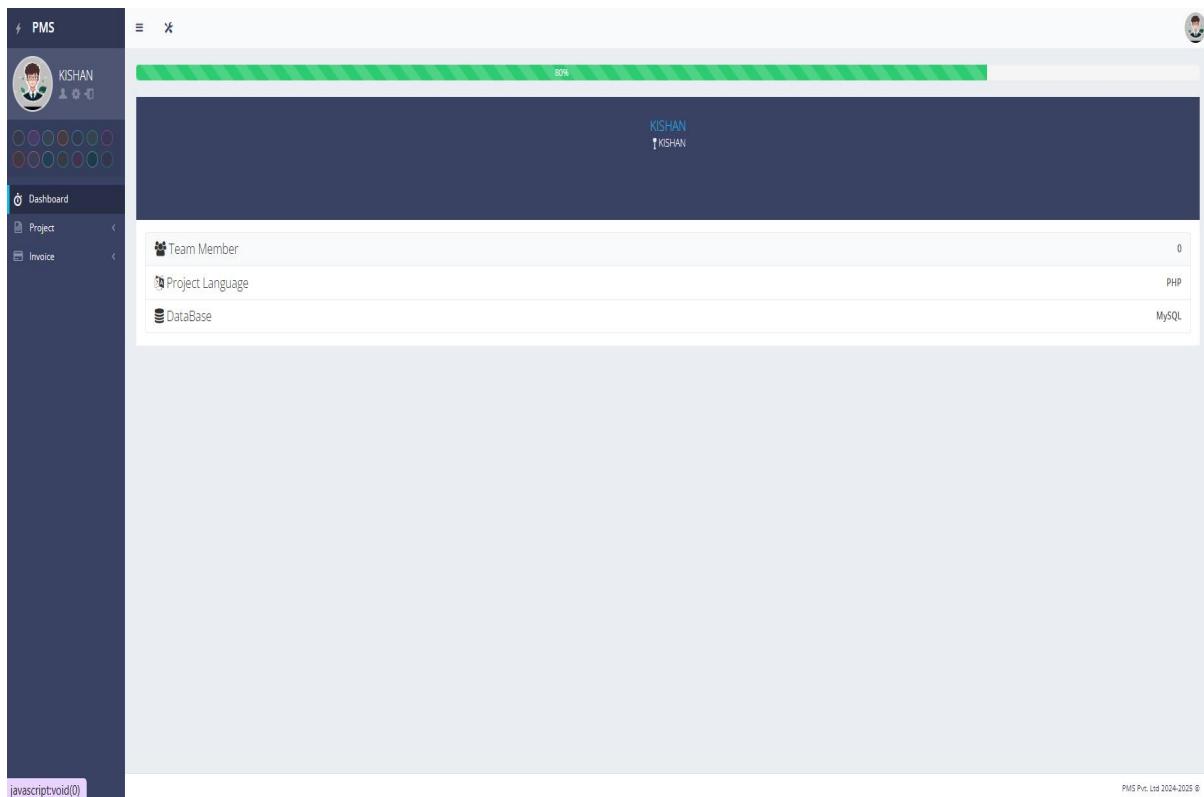
View Project :

The screenshot shows the "View Project" page. It features a table with columns: Title, Deadline, Language, Company, DB, Amount, and Actions. There is one row in the table with the following data:

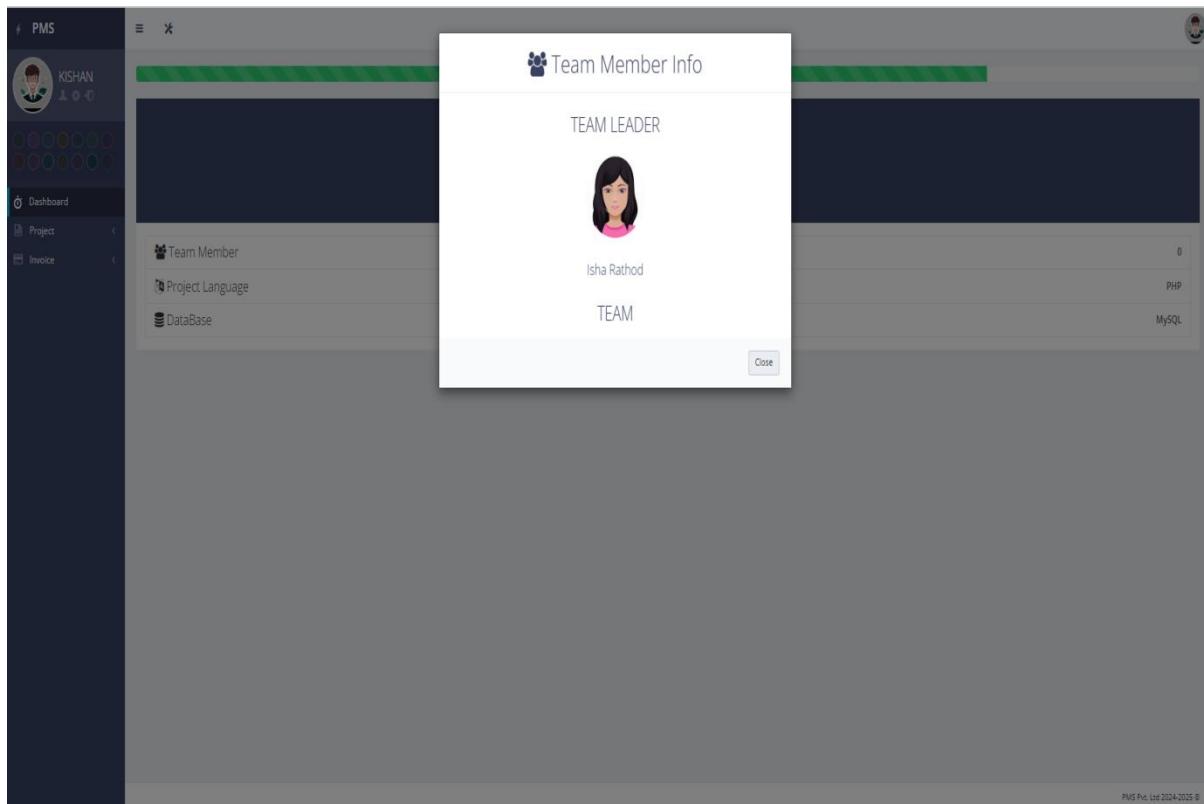
Title	Deadline	Language	Company	DB	Amount	Actions
KISHAN	2025-05-04	PHP	XYZ	MySQL	7000	<button>Status</button>

At the bottom left, the URL "localhost/pms/pms/view-project.php#" is visible, and at the bottom right, the copyright notice "PMS Pvt. Ltd 2024-2025 ©" is present.

Check status :

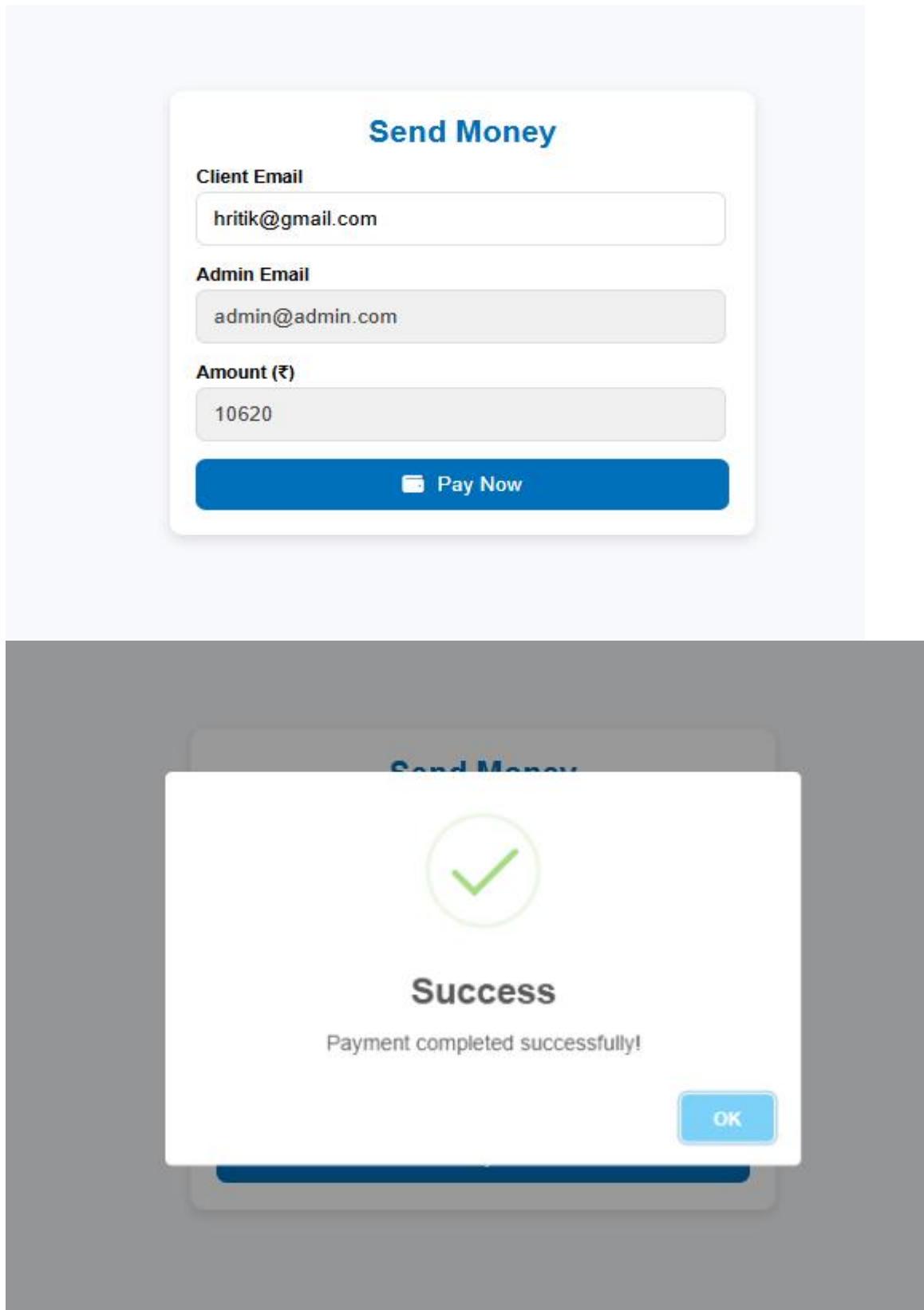


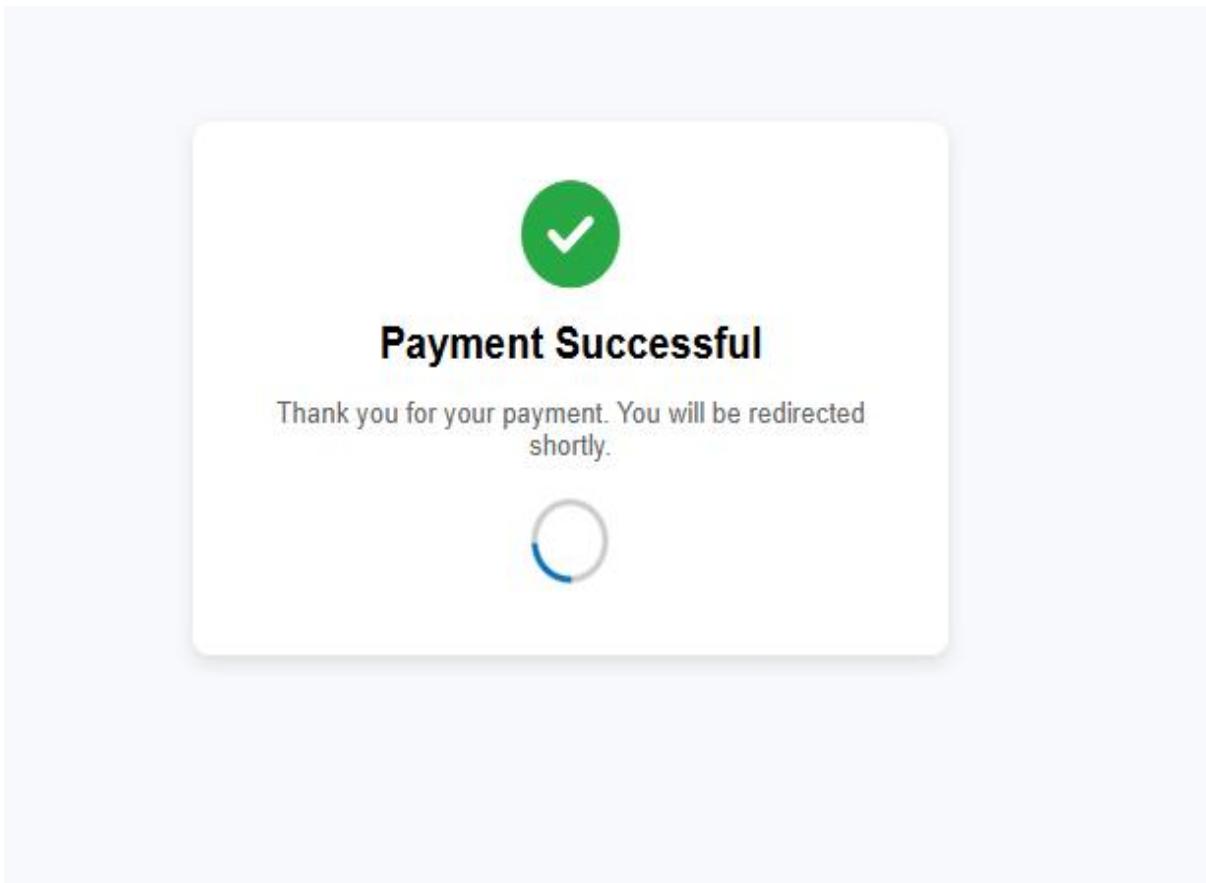
View Team leader :



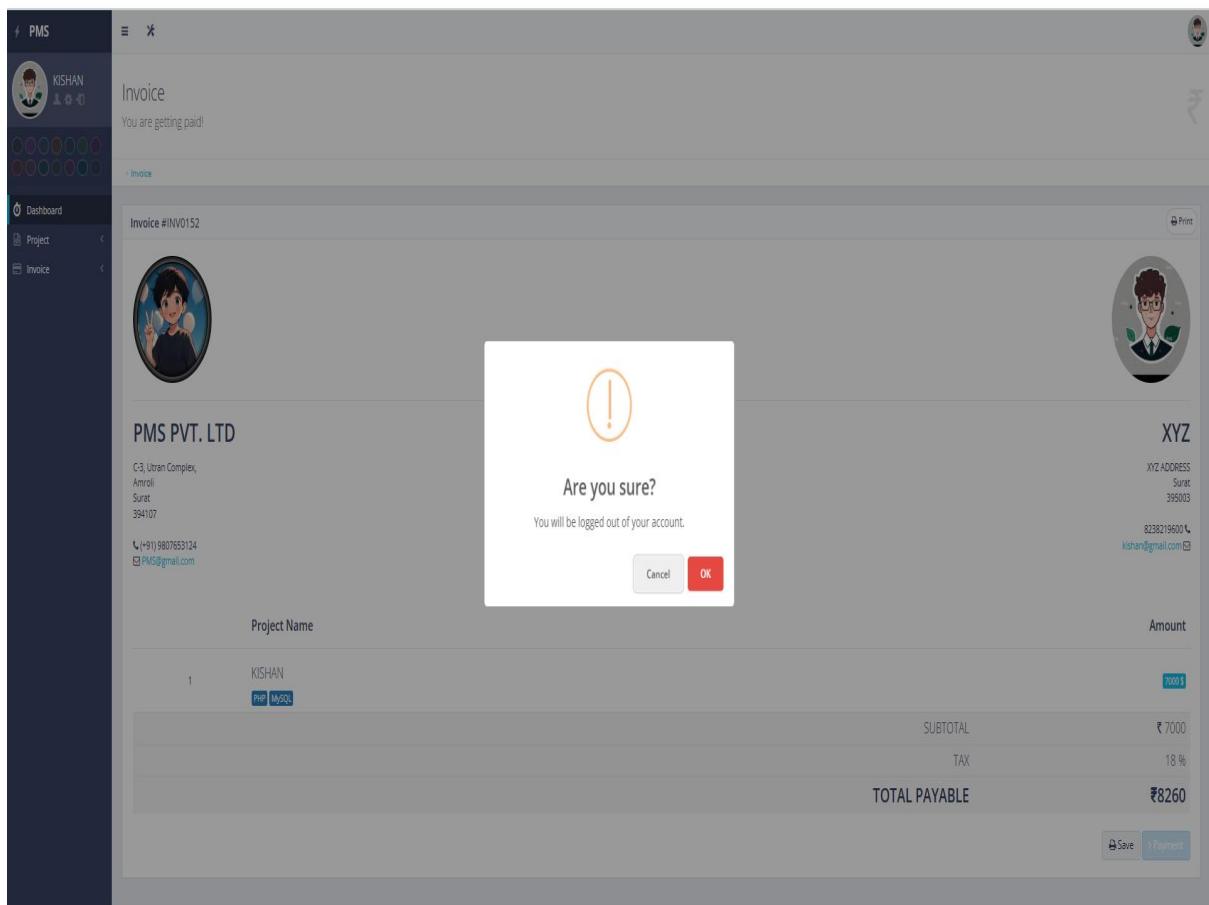
View Profile

Invoice





Logout :



7. System Design

- 7.1 Database Design
- 7.2 Directory Structure
- 7.3 Input Layouts

7.1 System Testing

- System testing is a level of software testing where the complete and integrated system is tested to evaluate its compliance with specified requirements.
- It falls under black-box testing, meaning testers focus on functionality without knowing the internal code structure.
- The true measure of software success lies in delivering high-quality, timely, and cost-effective solutions.
- Testing plays a crucial role in detecting critical (and potentially costly) mistakes.
- The primary objectives of software testing include:
 - A. Validate Performance**
 - B. Detects Errors**
 - C. Identify Inconsistencies**

A. Validate Performance

- Performance validation ensures that the software system operates efficiently under different conditions.
- It involves testing the speed, stability, and scalability of the application under various workloads.
- Performance testing includes:
 - ✓ **Load Testing** – Evaluating how the system handles a specific number of users.
 - ✓ **Stress Testing** – Checking system behavior under extreme conditions.
 - ✓ **Scalability Testing** – Determining how well the system adapts to increased demands.
 - ✓ **Response Time Testing** – Measuring how quickly the system responds to user inputs.

Effective performance validation ensures that the application remains reliable and responsive under varying operational scenarios.

B. Detects Errors

- One of the primary purposes of software testing is to identify errors that could impact functionality, security, or usability.
- Errors can arise due to:
 - ✓ **Coding Mistakes** – Logical or syntax errors in the program.
 - ✓ **Integration Issues** – Problems occurring when different modules are combined.
 - ✓ **Security Vulnerabilities** – Weaknesses that may lead to data breaches or unauthorized access.
 - ✓ **Functionality Defects** – Features not working as expected.

By detecting these errors early in development, testing helps prevent costly post-deployment failures and enhances overall software reliability.

C. Identify Inconsistencies

- Inconsistencies in software can lead to unpredictable behavior, making the system unreliable. These inconsistencies may arise due to:
 - ✓ **Mismatched Requirements** – When software behavior does not align with initial specifications.
 - ✓ **UI/UX Discrepancies** – Differences in design, layout, or user experience.
 - ✓ **Data Handling Issues** – Variations in data formats or incorrect data processing.
 - ✓ **Cross-Platform Differences** – Functionality working on one platform but failing on another.
- Testing helps ensure consistency across different components, platforms, and environments, ultimately improving user experience and system dependability.

Testing Methods :

➤ White-Box Testing:

- ✓ White-box testing (also known as clear box testing, glass box testing, transparent box testing, and structural testing) is a method of testing software that tests internal structures or workings of an application, as opposed to its functionality (i.e. black-box testing).
- ✓ In white-box testing an internal perspective of the system, as well as programming skills, are used to design test cases.
- ✓ This is analogous to testing nodes in a circuit, e.g. in-circuit testing (ICT). White-box testing can be applied-at the unit, integration and system levels of the-software testing process.
- ✓ Although traditional testers tended to think of white-box testing as being done at the unit level, it is used for integration and system testing more frequently today.
- ✓ It can test paths within a unit, paths between units during integration, and between subsystems during a system-level test.
- ✓ Though this method of test design can uncover many errors or problems, it has the potential to miss unimplemented parts of the specification or missing requirements.

➤ Black-Box Testing:

- ✓ Black Box Testing is also called behavioral testing, focus on functional requirement of the software, that is, black-box testing is enabling the software engineer to derive sets of input condition that will fully exercise all functional requirement for a program.
- ✓ Black box testing is not alternative to white box techniques.
- ✓ Black- box testing attempts to find errors in the following categories.
 - ✓ Incorrect or missing function.
 - ✓ Errors in data structure or external database access.
 - ✓ Behaviour or performance errors.
 - ✓ Initiation and termination errors.

7.2 Test Cases

Login Panel

Test Field	Test Data	Valid/Invalid	Test Result
Email Id	Empty	Invalid	Please enter email
	alvikadivar	Invalid	Please enter email
	alvi@gmail.com	Valid	
Role	Select role	Select	Select role
Password	Empty	Invalid	Please enter Password
	123	Invalid	Password must be contain 5 caharacters
	a@123	Valid	

Database

Test Field	Test Data	Valid/Invalid	Test Result
Database Name	Empty	Invalid	Please enter Database
	project	Valid	

Languages

Test Field	Test Data	Valid/Invalid	Test Result
Language Name	Empty	Invalid	Please enter Language
	php	Valid	

Forgot Password

TestField	TestData	Valid/ Invalid	Test Result
EmailId	Empty	Invalid	Please enter email
	alvikadivar	Invalid	Please enter email
	alvi@gmail.com	Valid	
Role	Select role	Select	Select role
Password	Empty	Invalid	Please enter password
	123	Invalid	Please enter Password
	a@123	Valid	Please enter confirm Password
Confirm Password	123	Invalid	Please enter confirm Password
	a@123	Valid	

Client Registration

Test Field	Test Data	Valid/In valid	Test Result
Company_name	12345	invalid	pleaseentercompanyname
	Repute info	valid	
address	empty	invalid	Please enter address
	surat	valid	
City	Empty	Invalid	Please enter city
	surat	Valid	
state	Empty	Invalid	Please enter state
	Gujrat	Valid	
pincode	Empty	Invalid	Please enter pincode
	363630	Valid	
country	Empty	Invalid	Please enter country
	india	Valid	
website	Empty	Invalid	Please enter website
	project	Valid	
Image upload	Empty	Invalid	Please enter image
	Image select	Valid	

Client name	Empty	Invalid	Please enter client name
	Archi	Valid	
Job Titel	Empty	Invalid	Please enter image
	Project manager	Valid	
Phone Number	Empty	Invalid	Please enter phone number
	9510876990	Valid	
email	Empty	Invalid	Please enter valid email
	Archi123	Invalid	Please enter valid email
	archi@gmail.com	valid	
password	Empty	Invalid	Please enter password
	123	Valid	
Confirm password	Empty	Invalid	Please conform your password
	345	Invalid	Please conform your password
	123	Valid	
Registration Date	Empty	Invalid	Please enter date
	04/12/2023	valid	

Team Member registration :

Test Field	Test Data	Valid/Invalid	Test Result
Name	12345	invalid	Please enter Name
	archi	valid	
Type	Empty	Invalid	Please enter team type
	php	Valid	
Position	Empty	Invalid	Please select position
	Tester	Valid	
email	Empty	Invalid	Please enter valid email
	archii123	Invalid	Please enter valid email
	archi@gmail.com	valid	
TelePhone	Empty	Invalid	Please enter phone number
	aaa	Invalid	Please enter only digit
	9510876990	Valid	
password	Empty	Invalid	Please enter password
	123	Invalid	Please enter password

	a@123	Valid	
Image upload	Empty	Invalid	Please enter image
	Image select	Valid	

Project approved

Test Field	Test Data	Valid/ Invalid	Test Result
Title	Empty	Invalid	Please enter Title
	SMS	Valid	
Project Deadline	Empty	Invalid	Please enter date
	project	Valid	
Description	Empty	Invalid	Please enter description
	project	Valid	
Programming Language	Empty	Invalid	Please enter language
	php	Valid	
Database	Empty	Invalid	Please enter database
	Mysql	Valid	
Amount	Empty	Invalid	Please enter amount
	1000	Valid	

Reports

Test Field	Test Data	Valid/Invalid	Test Result
Reports	Empty	Invalid	Please enter Reports
	Select one (paid/unpaid/ approved)	Valid	

Bug Traker

Test Field	Test Data	Valid/Invalid	Test Result
Bug	Empty	Invalid	Please enter Bug
	Enter Bug Description	Valid	
Language	Empty	Invalid	Please enter Language
	Select Language	Valid	
project	Empty	Invalid	Please enter Project
	Select Project	Valid	

8. Introduction

Limitation,Future Scope and
Reference

Limitations

- **No Real-Time Notifications** : The system lacks a notification feature, meaning users must manually check for updates on project status, approvals, and task assignments.
- **Limited Messaging System** : Admins and Clients cannot directly communicate with Project Managers or team members, making discussions dependent on external platforms.
- **No Mobile Application** : Currently, the system is designed for web browsers and does not have a dedicated mobile application for on-the-go access.
- **No API Integration** : The system does not support third-party API integration, which limits its ability to connect with other tools like email services, cloud storage, or external project management platforms.
- **Basic Reporting System** : While reports can be generated, advanced analytic and graphical data visualization features are not yet available.

Future Scope

To improve the Project Management System (PMS), the following enhancements are planned for future updates:

- **Real-Time Notifications** : Implementing push notifications and email alerts to keep users updated instantly.
- **Advanced Messaging System** : Enabling direct communication between Admins, Clients, and Project Managers within the system.
- **Mobile Application Support** : Developing a mobile-friendly version or a dedicated app for better accessibility and convenience.
- **Third-Party API Integration** : Allowing integration with tools like Google Drive, Slack, and cloud-based services to improve functionality.
- **Automated Task Prioritization** : Implementing AI-based algorithms to suggest and prioritize tasks based on urgency and workload distribution.
- **Enhanced Reporting & Analytics** : Adding advanced data visualization, graphs, and AI-driven insights to improve decision-making.
- **Multi-Language Support** : Expanding language options to make the system accessible to a broader audience.

These future enhancements will ensure that PMS continues to evolve, offering better efficiency, automation, and user experience for project management.

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