

Project Management System

Introduction

Welcome to our innovative Project Management System – a dynamic and efficient solution designed to streamline and enhance the project management processes within an organization. In the fast-paced and ever-evolving landscape of software development, effective project management is paramount to ensure successful and timely delivery of high-quality products.

Our PMS is tailored to meet the unique needs of our software development teams, providing a centralized platform that facilitates collaboration, communication, and organization throughout the project lifecycle. This comprehensive system integrates key project management functionalities, from task assignment and progress tracking to bug reporting etc.

The Project Management System isn't just a tool, it's a strategic asset that empowers teams to deliver exceptional software solutions efficiently. Embrace the future of project management with PMS, where projects are not just managed but orchestrated for success.

Features:

- **Login:**
Users can securely access the Software Company Project Management System by entering their credentials. The login process ensures that only authorized individuals have access to the system, maintaining data security.
- **Sign up:**
New users can register and create accounts within the system. The sign-up process enables the onboarding of team members, ensuring that the right individuals have the necessary access to collaborate on projects. It is done using an OTP sent to the mail.

- **Password Change:**

Users have the ability to change their passwords for enhanced security. This feature ensures that individuals can regularly update their passwords, contributing to the overall safety of the system.

- **Add Project:**

Hr can initiate the creation of a new project within the system. This feature serves as the starting point for organizing tasks, allocating resources, and tracking the progress of software development projects.

- **Add Project Feature by selecting Developer and SQA:**

During project creation, the system allows the assignment of specific features or modules to developers and software quality assurance (SQA) team members. This ensures clear responsibilities and streamlines the development process.

- **Feedback Reporting:**

This feature establishes a seamless feedback loop within the Software Company Project Management System. Developers generate progress reports, fostering transparency with the Quality Assurance (SQA) team. Simultaneously, SQA provides comprehensive feedback on quality and testing, informing developers for necessary adjustments. SQA reports also go to team leads, guiding informed decisions for subsequent development phases. Team leads provide feedback to developers, closing the loop for continuous improvement. This integrated approach enhances project efficiency and software quality.

- **Team Lead Project Completion:**

Team leads wield the authority to mark specific features or tasks as complete, signifying successful implementation and meeting required criteria. Once all features are marked as complete, the team lead can finalize the entire project, signaling readiness for further evaluation or delivery. This consolidated feature streamlines the project completion process under team lead supervision.

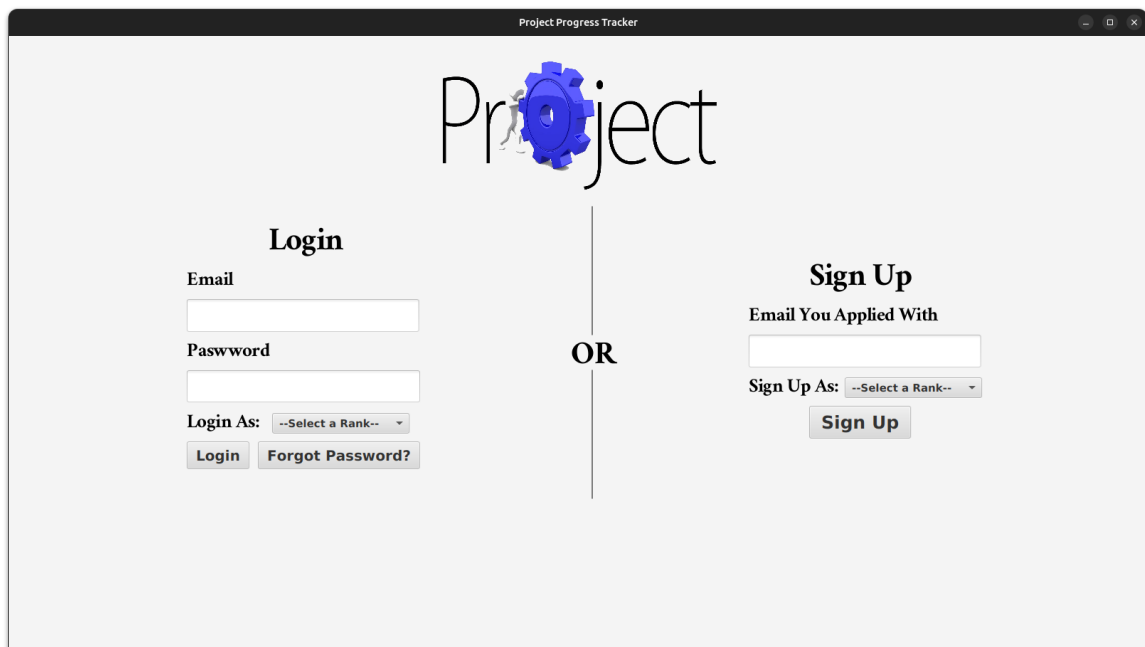
- **Project Overview for HR and Team Leads:**

This feature provides a consolidated view for both the Human Resources (HR) department and Team Leads, offering insights into ongoing and completed projects. HR utilizes this information for resource planning, performance evaluations, and organizational strategy. Simultaneously, Team Leads access a comprehensive overview, aiding in progress monitoring, challenge identification, and ensuring the overall success of projects under their supervision. This unified feature enhances organizational visibility and strategic decision-making.

Functionalities:

Features of this management system have three types of 4 types of modules. HR, Team Lead, Developer and SQA. The GUI of these modules are given below:

Login And Signup:



The screenshot displays the 'Project Progress Tracker' application window. At the top center is the 'Project' logo, which features a blue gear icon. Below the logo, the interface is split into two sections by a vertical line. The left section is titled 'Login' and contains fields for 'Email' and 'Password', a 'Login As:' dropdown menu with '--Select a Rank--' as the selected option, and two buttons: 'Login' and 'Forgot Password?'. The right section is titled 'Sign Up' and contains a field for 'Email You Applied With', a 'Sign Up As:' dropdown menu with '--Select a Rank--' as the selected option, and a 'Sign Up' button. The word 'OR' is centered between the two sections.

New employees can sign up from here using their given email. To login user need to put their email and password and select which role is he signing as eg. HR, Developer etc.

Team Lead UI:

Project Progress Tracker

Logout

Ongoing Current Projects

Riasat(Teamlead)
riasat.lead@gmail.com
2364895641

Mark Project As Complete

Refresh

Current Project Name: Twitter(0/4)
Please click on the features below to edit or assign people.

Add New Feature

Completed Projects:

Feature Name	SQA Name	SQA Commit Message	Developer Name	Developer Commit Message	Teamlead Commit Message
Login	Fahim		Shafin		Under Development
Signup	Tahsin R...		Anik		Under Development
Posting	Emon		MUMU		Under Development
Commenting	Rakib		Wasif		Under Development

Project Title

No content in table

Here the team lead is working on the assigned project. He can add new features of this project and subsequently add the respective developers and QA. Also we see the current conditions of the features determined by the lead.

Developer UI:

Project Progress Tracker

Logout

Refresh

Shafin(Developer)
shafin@gmail.com
0606060606

Ongoing Current Projects

You are currently assigned to Twitter. Please complete your task of implementing Login and provide necessary comment below:

Implemented Login using JWT.

Forward to SQA

After Implementing the feature the developer writes a message to QA to test it by clicking the 'Forward to SQA' button.

SQA UI:

Project Progress Tracker

Logout

Object on the current feature Refresh

Fahim(SQA)
fahim@gmail.com
2727272727

Ongoing Current Projects

You are currently assigned to Twitter. Please complete your task of testing Login and provide necessary comment below:

Tested login thoroughly and found no issue.

Message from Developer:
Implemented Login using JWT.

Forward to Teamlead

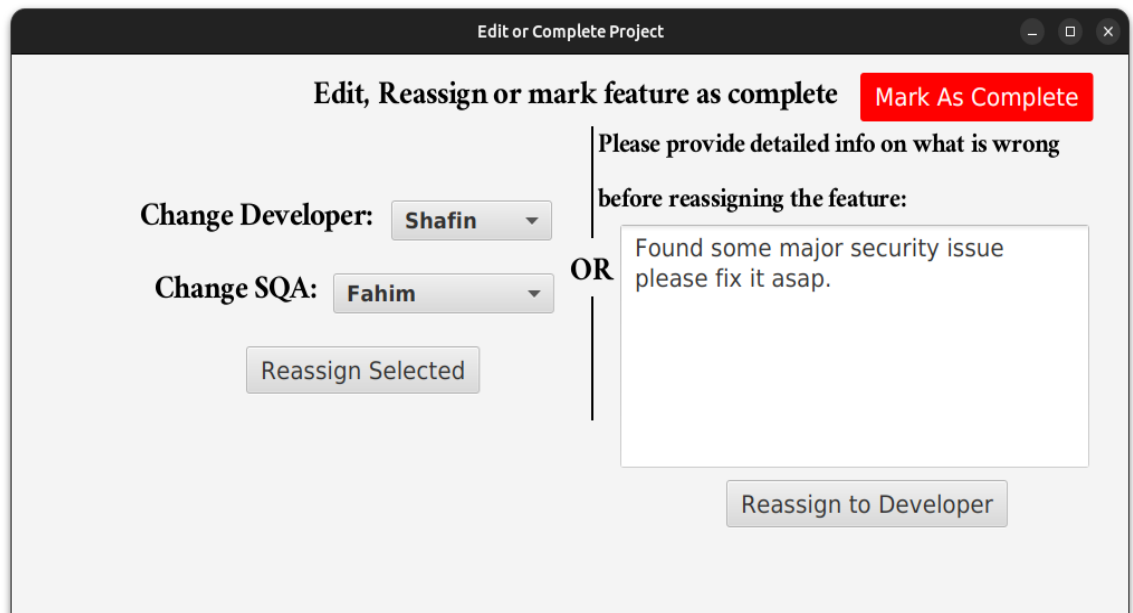
Sqa is seeing the message from the developer and writing his report which will be sent to the Team lead. If there is a bug on the feature he will click the 'Object on the current feature button' and a message will be sent to the developer which he can see in his portal.

Objection Box:



A screenshot of a web application window titled "Object on Login of Twitter". The window has a dark header bar with standard window controls (minimize, maximize, close) on the right. The main content area is light gray and contains the text "Please provide a detailed overview below:" in bold. Below this text is a large white text input box containing the text "Found bug on login. SQL injection can be applied which is not good. Please fix it." At the bottom center of the window is a gray button labeled "Post Objection".

Team Lead Message:



A screenshot of a web application window titled "Edit or Complete Project". The window has a dark header bar with standard window controls (minimize, maximize, close) on the right. The main content area is light gray and contains the text "Edit, Reassign or mark feature as complete" in bold. To the right of this text is a red button labeled "Mark As Complete". Below the main text, there are two columns separated by a vertical line. The left column contains the text "Change Developer:" followed by a dropdown menu showing "Shafin", and "Change SQA:" followed by a dropdown menu showing "Fahim". Below these is a gray button labeled "Reassign Selected". The right column contains the text "Please provide detailed info on what is wrong before reassigning the feature:" in bold, followed by the word "OR" in large bold letters, and then a large white text input box containing the text "Found some major security issue please fix it asap." At the bottom right of the window is a gray button labeled "Reassign to Developer".

After getting reports from QA, the team lead can assign the task to the developer again , he can select new developers or QA to the feature.

Project Completion:

Project Progress Tracker

Logout

Ongoing Current Projects

Riasat (Teamlead)
riasat.lead@gmail.com
2364895641

Current Project Name: Twitter(4/4)

Please click on the features below to edit or assign people.

Add New Feature

Mark Project As Complete

Refresh

Feature Name	SQA Name	SQA Commit Message	Developer Name	Developer Commit Message	Teamlead Commit Message
Login	Fahim	Tested login thoroughly...	Shafin	Security has been enrich...	Completed
Signup	Tahsin R...	Sign up Tested	Anik	Sign up implemented	Completed
Posting	Emon	Posting tested	MUMU	Posting implemented	Completed
Commenting	Rakib	Commenting tested	Wasif	Commenting implemented	Completed

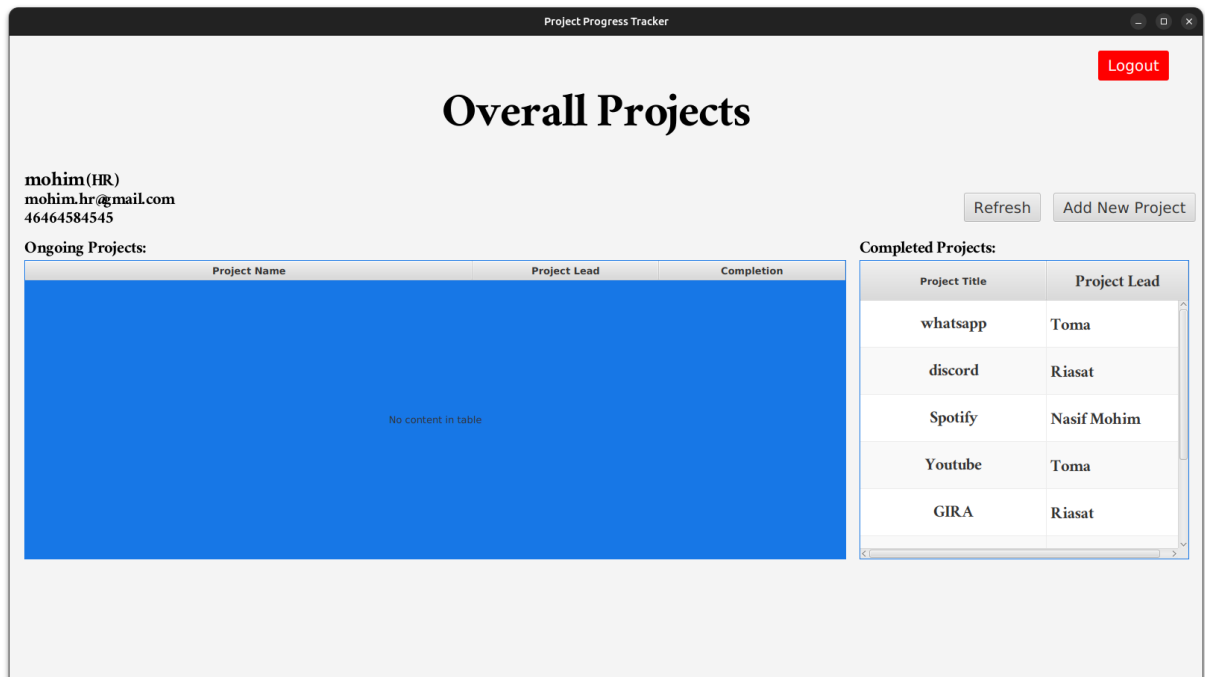
Completed Projects:

Project Title

No content in table

After all the features have been completed the project can be marked as completed by the team lead. And it will be the end of the project.

HR UI:



Here the HR can see all the completed projects . Add new projects and select the team lead who will be working on the project.

Technologies Used:

FrontEnd: JavaFX for GUI.

Backend: MySql For Database.

Limitation: No developers , team lead or sqa can be assigned to more than one project at the same time.

Future Scopes: Our project management system has a lot of future scopes. Some of the features we would like to work on in the future include integration with external tools, advanced analytics, AI and automation, mobile app, scalability for larger systems etc.