Project Report

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Project Report: Building a **ProjectWorkBase (PWB)** Application

Introduction: The project was to develop a work base application for efficient project and issue management. The goal was to create a user-friendly interface that allows users to manage projects, track issues, and streamline workflows. The application integrates with a MySQL database to store and retrieve project and user-related information.

**Database Design:**

* Created the MySQL database named "project" using MySQL Workbench.
* Designed and implemented the following tables:
* User: Stores user information, including username, password, first name, last name, and role.
* Administrator: Represents administrators and their details, with a foreign key reference to the User table.
* ProjectManager: Stores project managers and their contact information, linked to the User table.
* Developer: Contains developer details, including their title and contact information, associated with the User table.
* Customer: Represents customers and their information, linked to the User table.
* Project: Stores project information, including title, description, start and end dates, and the assigned project manager.
* Issue: Manages issues, including issue type, summary, description, project association, creator, handler, status, priority, due date, comments, and attachments.

**User Authentication:**

* Implemented a login page to authenticate users against the User table in the MySQL database.
* Validated the provided username and password with the stored credentials.
* Provided access to the application upon successful authentication.

**Interface Design:**

* Developed an index page with a navigation bar for easy access to different sections of the application.
* Added options for Projects, Issues, Boards, Reports, and User Management in the navigation bar.
* Linked the navigation options to their respective pages and functionalities.

**Project Page:**

* Created a Projects section to display a list of all projects accessible to the user.
* Fetched project information from the Project table in the MySQL database.
* Displayed project names, keys, and current status summaries.
* Enabled clicking on a project to navigate to its overview page.

**Issues Page:**

* Implemented an Issues section to display a list of all issues available to the user.
* Retrieved issue information from the Issue table in the MySQL database.
* Provided filtering and search options based on various criteria like issue type, status, priority, and assignee.
* Enabled users to view detailed information for each issue and perform relevant actions.

**Boards, Reports, and User Management:**

* Pending implementation. These sections are part of the future development plan.

Conclusion: The current state of the web application showcases the successful implementation of user authentication, project management, and issue tracking features. The interface design follows a user-friendly approach, ensuring easy navigation and efficient management of projects and issues.