JavaFX Todo List Application - Project Report

Team Information

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GitHub Repository: [https://github.com/Samiullah98/todo.git]

Project Overview

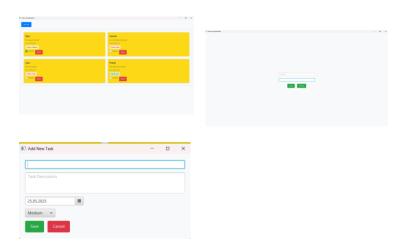
This JavaFX-based Todo List application offers users a modern interface for task management. Key features include user authentication, data persistence using local file storage, and a responsive GUI. The project adheres to the MVC design pattern.

Development Tools & Technologies

- Java 24 & JavaFX 24.0.1
- Maven for dependency management
- FXML for UI design
- CSS for styling
- File I/O for saving user data and tasks

Implemented Features

- 1. Authentication
- User registration and login/logout functionality
 - Input validation and error handling
 - Session management
 - User data stored in local files
- 2. File Handling
- Each user has a separate task file
 - Tasks are loaded automatically after login
 - Data format: Title, Description, Due Date, Priority, Completed



Architecture

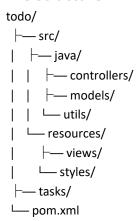
The project follows the MVC pattern.

- Model: Task.java, TaskFileHandler.java

- View: login.fxml, main.fxml, addTask.fxml, main.css

- Controller: LoginController.java, MainController.java, AddTaskController.java

File Structure



Feature Summary Table

Feature	Successfully realized (Yes or No)	Source code file names
Basic functionality		
Authentication		
File processing		
Additional features (if any):		
1 st Additional feature		
2 nd Additional feature		

Declaration

I declare that this project is my own work and has not been submitted in any form for another assignment. I have acknowledged all sources used in this report.

Signature: