



EFFICIENT PROJECT MANAGEMENT FOR AGILE TEAMS

Agile Board CLI Application

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INTRODUCTION

The Agile Board CLI is a command-line interface application designed for streamlined project management using Agile methodologies. It offers a concise and efficient way to create, manage, and track tasks on an Agile board, allowing teams to easily collaborate and stay organized. With intuitive commands, it enables users to add, prioritize, and update tasks effortlessly, fostering agile development practices in a text-based environment. Enhance your team's agility and productivity with the Agile Board CLI.





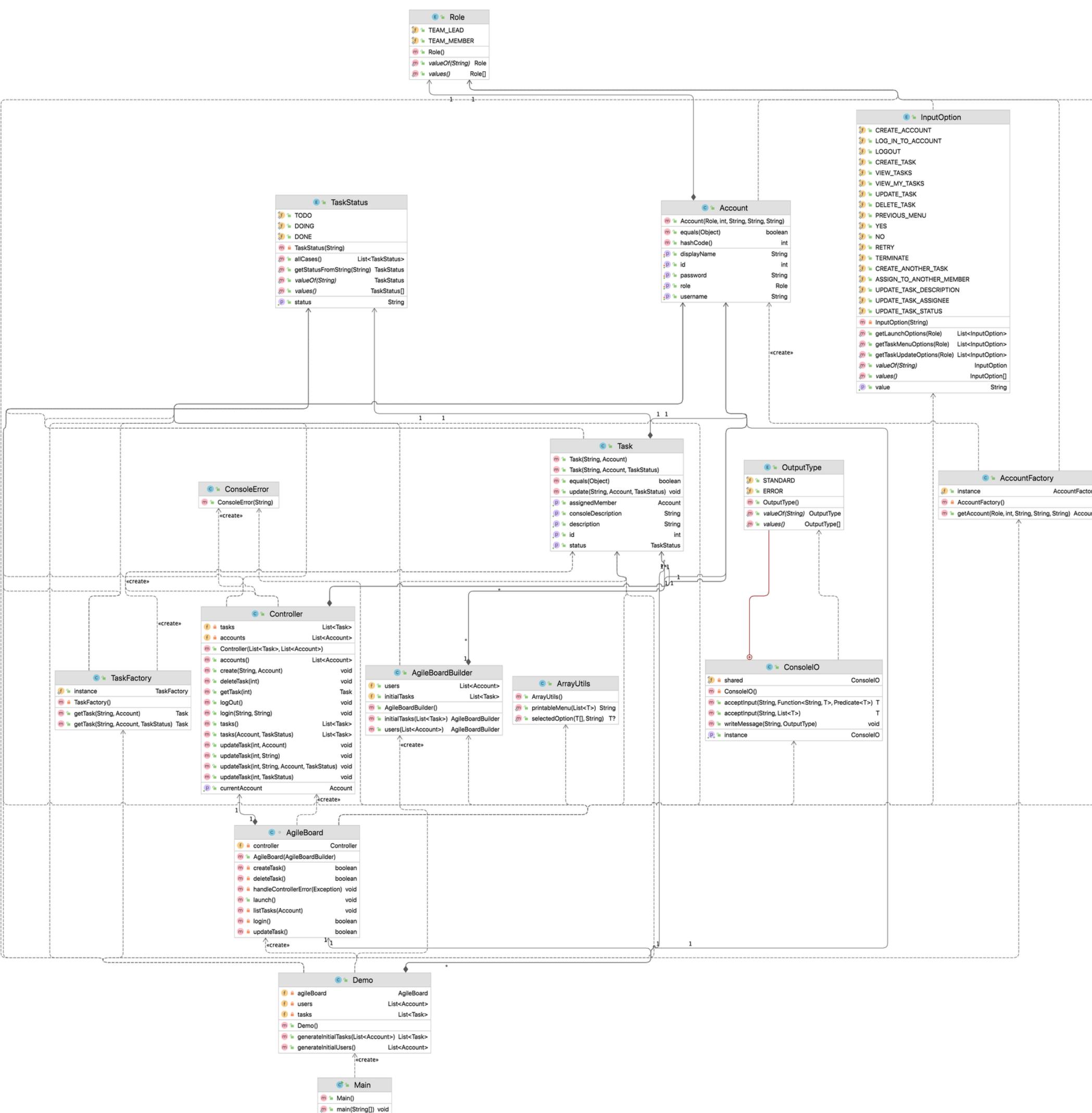
**NIMISH
SHARMA**

THE TEAM



**OLAYINKA
OLASUNKANMI**

UML DIAGRAM



Key Features

USER ACCOUNT

User account should have:

- role: ENUM TeamLeader/TeamMember
- id: int
- username: String
- password: String
- displayName: String

TASK

Task should have the following:

- description: String
- status: ENUM TODO/DOING/DONE
- id: int
- assignedMember: Account

TEAM LEADER ROLE

A team lead should be able to:

- Create tasks
- View all tasks
- Delete tasks
- Update task description and assignedMember

TEAM MEMBER ROLE

A team member should be able to:

- view tasks assigned to them
- update tasks status

Design Patterns

MVC

The Model-View-Controller pattern is used to separate the application into three interconnected components to achieve modularity and maintainability. This is used in the entire project design structure.

Singleton Factory

This combines singleton and factory pattern to the factory class has only one instance while producing a factory that manages object creation. This is used in the account and task and creation.



Design Patterns

Facade

This structural design pattern provides a simplified and unified interface to a set of interfaces in a subsystem, making it easier to use and understand. This is used in `ConsoleIO` class using imported `java.util` Interfaces.

Builder

The creational design pattern separates the construction of a complex object from its representation, allowing the step-by-step creation of different configurations of the object using the same construction process.

This is used in initializing and building the agile board.



FUTURE IMPROVEMENTS

These are planned or potential future improvements showing our commitment to continuous improvement and staying aligned with evolving Agile practices

Add a GUI for easy use and visualization of application compared to a CLI

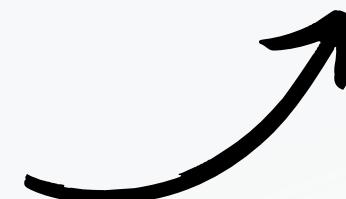
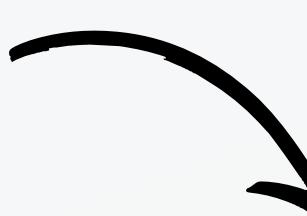
GUI

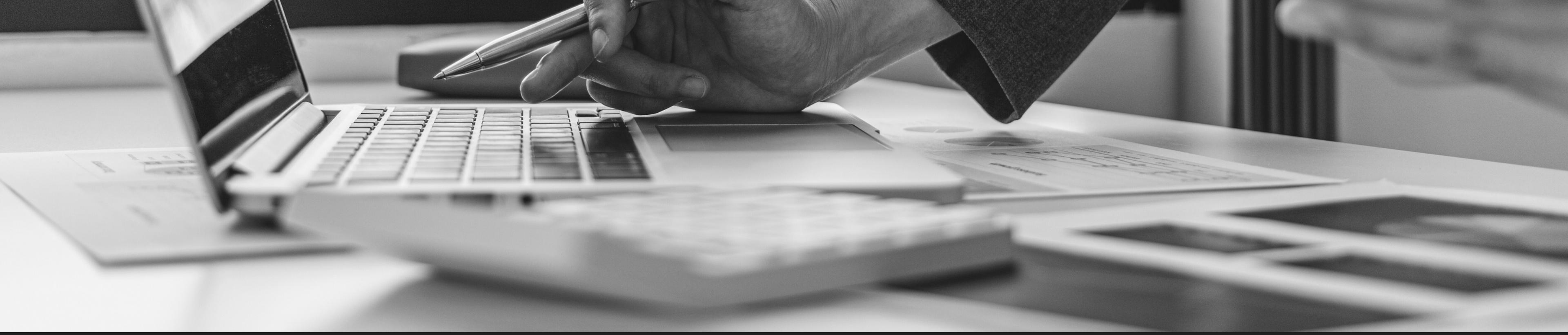
Upgrade project to make use of a RDB and ORM framework to store accounts and tasks data

DATABASE

Add backend controller to create new user accounts for different type of roles

BACKEND





QUESTIONS

The floor is open to any questions, challenges, or ideas you would like to suggest

A black and white photograph of a modern building with a glass facade and a reflective floor, set against a bright sky.

Thank you.