

Our git board for this project can be found [here](#).

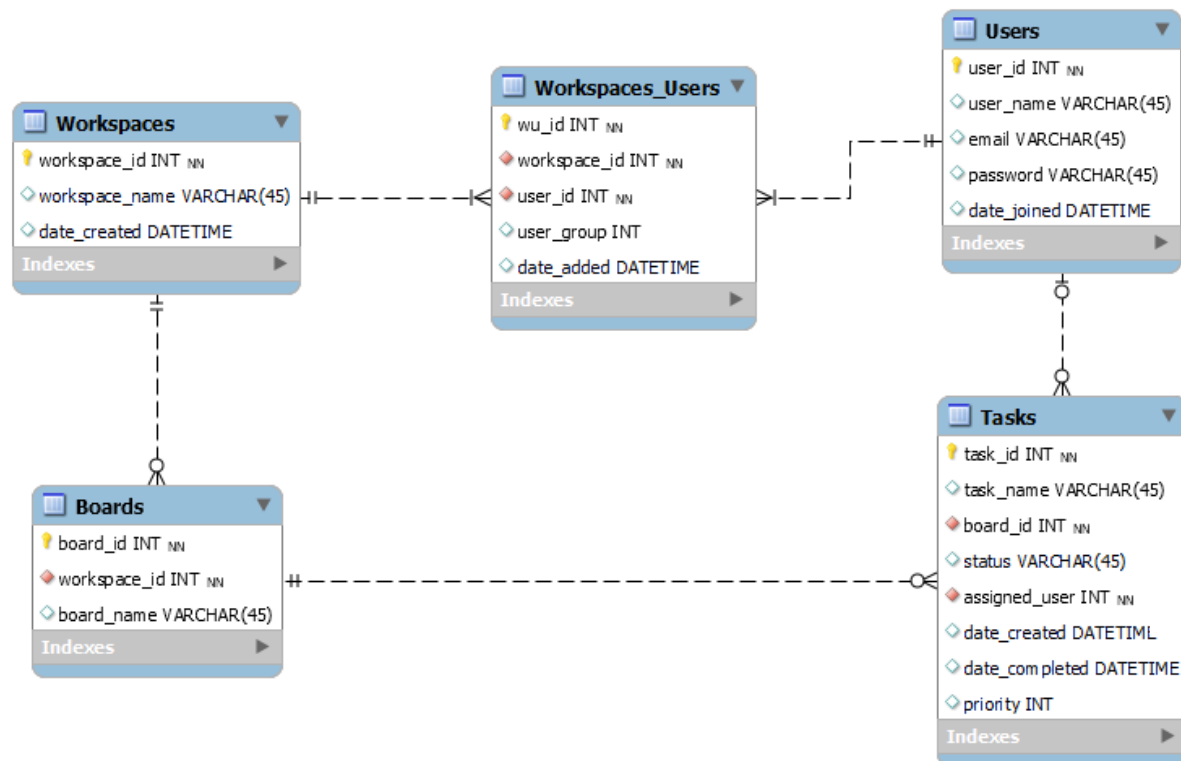
Deliverable 1: Data Model

Our database will have 5 tables: Users, Workspaces, Workspace_User, Boards, and Tasks.
 The connections and cardinalities are listed in the following table:

Origin	Target	Cardinality	FK
Users	Workspaces_Users	One to many	user_id
Users	Tasks	Zero/one to zero/many	user_id
Tasks	Users	Many to one	user_id
Tasks	Boards	Many to one	board_id
Boards	Tasks	One to zero/many	board_id
Boards	Workspaces	Many to one	workspace_id
Workspaces	Boards	One to zero/many	workspace_id
Workspaces	Workspaces_Users	One to many	workspace_id
Workspaces_Users	Workspaces	Many to one	workspace_id
Workspaces_Users	Users	Many to one	user_id

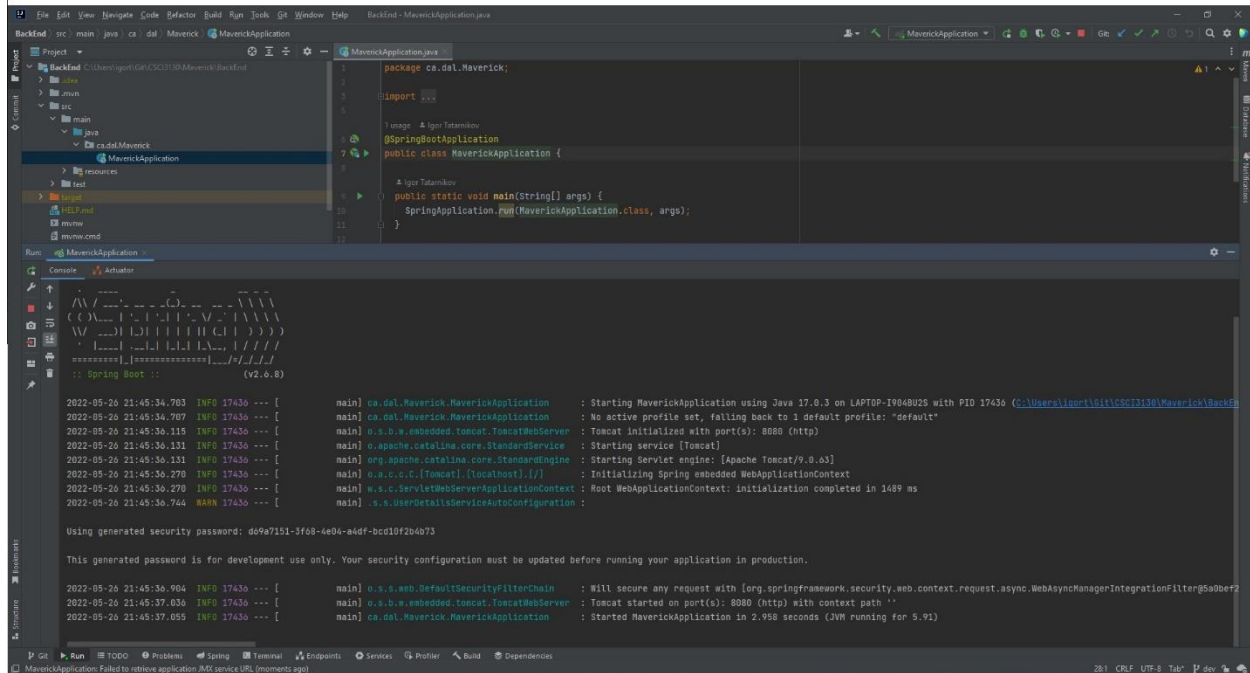
The table Workspaces_Users exists to represent the Many to Many relationship between Users and Workspaces, as a user can be a member of many workspaces and each workspace can have many users.

The ERD diagram can be found below:



Deliverable 2: Spring Boot Project

Please find screenshots of the skeleton of the Spring Boot project skeleton below.



The screenshot shows an IDE window titled 'BackEnd - MavenApplication.java'. The project structure on the left includes 'BackEnd' with subdirectories 'src', 'main', 'java', 'resources', 'test', 'H2P.xml', 'mvnw', and 'mvnw.cmd'. The 'MavenApplication.java' file is open, showing the following code:

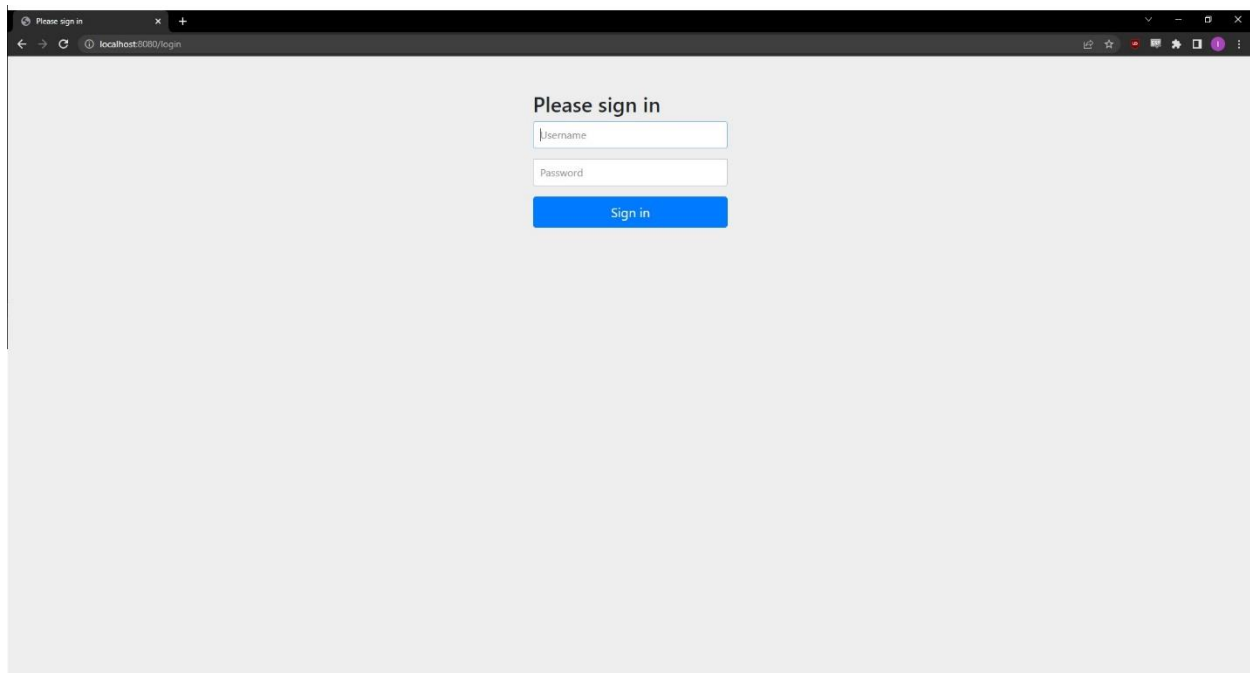
```
package ca.dal.Maverick;

import ...

@SpringBootApplication
public class MaverickApplication {

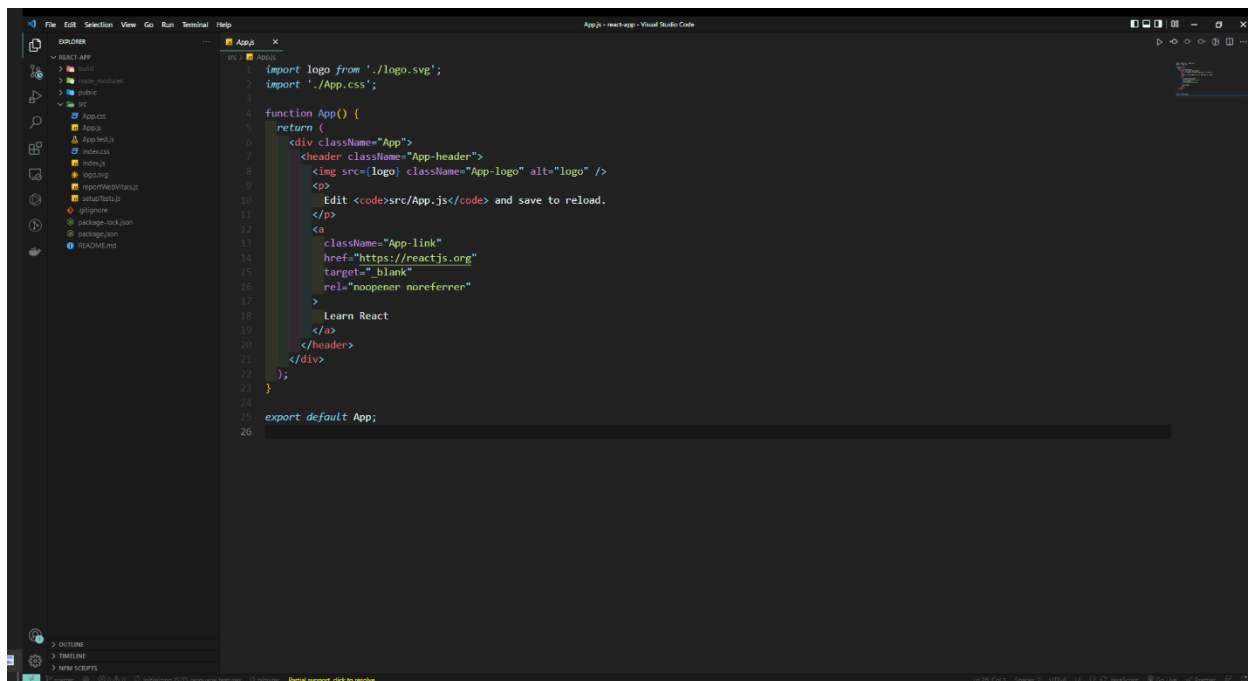
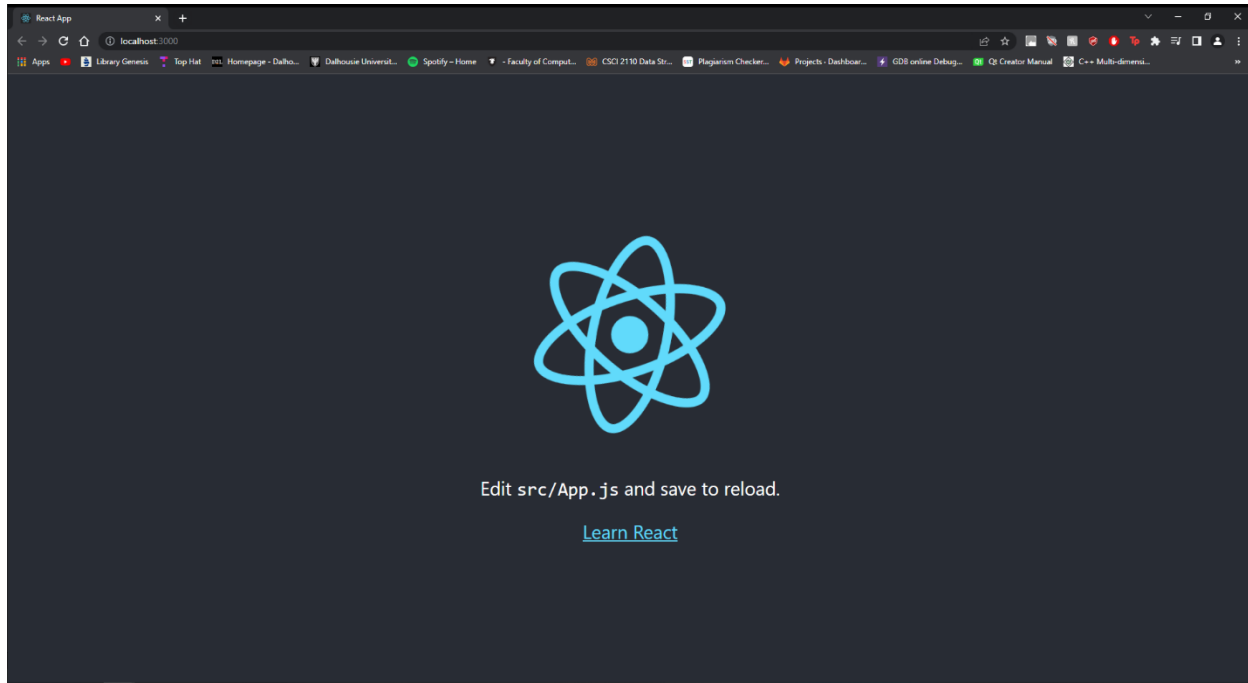
    @IgorTatarnikov
    public static void main(String[] args) {
        SpringApplication.run(MaverickApplication.class, args);
    }
}
```

The console output shows the application running on a Windows machine. It displays the Spring Boot logo, version information (2.6.8), and logs for the application startup. The logs indicate that the application is using Java 17.0.3 on a LAPTOP-I9048U25 with PID 17436. The application is initialized with the default profile 'default' and starts on port 8080 (http). The logs also show the initialization of the Spring embedded web application context and the completion of the root web application context initialization in 1489 ms. A security password is generated: d69a7151-3f68-4e04-a4df-bcd10f2b4073. The logs also show the initialization of the Spring security filter chain and the start of the Tomcat web server.



Deliverable 3: React Application

Screenshots of a basic React app are found below.



Deliverable 4: Project Timeline

The Gantt chart for our project can be found below:

