## 1. User Stories & User Requirements

1.1 Target User Groups

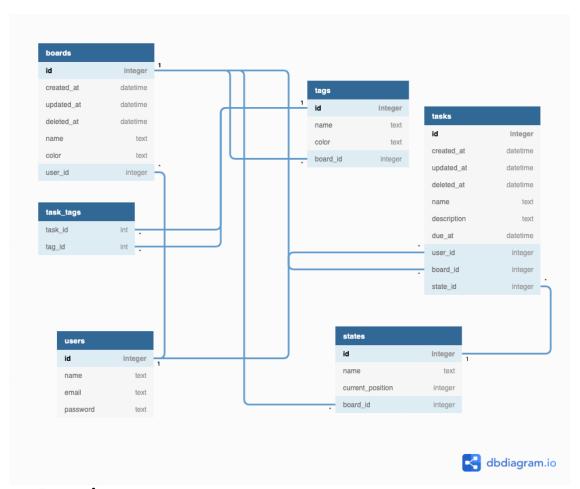
As a	I want to	So that	
Student	Keep track of assignment deadlines	I can plan and complete	
	of the state of th	assignments on time	
Student	Know what my friends are doing	I can be motivated to	
	·	complete my tasks as well	
Student	Categorize my tasks based on	I know in which subject I	
	different academic subjects	am pressed for submissions	
User	Use applications that are aesthetically	I feel motivated to use the	
	pleasing	application	
User	Use applications that runs on	It is more convenient	
	multiple platforms		
User	Use applications with a secure	I can use the application	
	authentication mechanism	without risking my privacy	
Working	Use applications that are frictionless	I can reduce learning costs	
Adult	and fuss-free	and focus on what is needed	
Working	Be reminded of my calendar events	I do not miss out on an	
Adult	and emails	important topic	
Project	Collaborate with other people on the	We can work together on	
Team Player	application	projects	
Project	Organize multiple projects in one	I do not lose track of any	
Team Player	place	projects	

# 2. Execution Plan

2. 1 Implementation Details

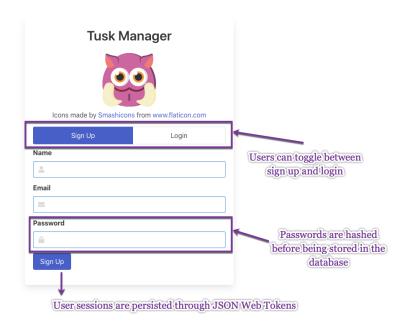
Technology Stack	<ul> <li>Frontend: React.js with Redux (for state management) and Bulma UI (for lightweight CSS styling)</li> <li>Backend: Go with Gin (for HTTP web-framework) and Gorm (as an Object-relational mapping to interact with the database)</li> </ul>
	- Database: PostgreSQL
Infrastructure	<ul> <li>Setup a Github repository as a monorepo for the frontend and backend code, since the application is small, and it makes for consistent deployment and easy visibility of the entire application.</li> <li>Setup code quality tools using Github actions and create test cases and mocks for both frontend and backend to improve code coverage.</li> </ul>

# 2.2 Database diagram

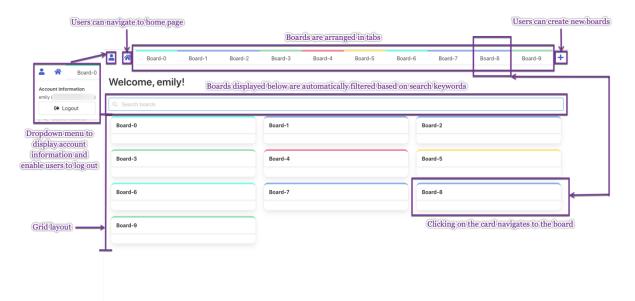


### 2.3 Page views

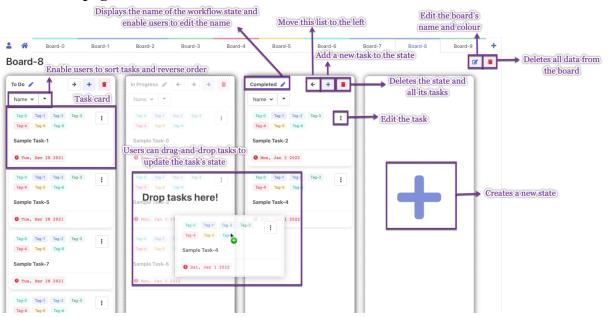
Authentication page:



Home page:



#### Dashboard page:



#### 3. Future work

Database	- Currently, file-based SQLite is used, which is inconsistent	
	in deployments. It is recommended to	use PostgreSQL.
Integrations	grations - Enable users to integrate tools such as their calend	
_	emails into the application, e.g. through	h external public
	APIs such as the Google Calendar API.	<del>-</del>
Tags	- Currently, users can only create tags. U	sers should be
Management	able to edit and delete tags.	
Collaboration	oration - Set up boards that share many-to-many relationships	
	with users i.e enabling different users t	o collaborate on
	the same board	
User Experience	Experience - Use Cron jobs to send reminders about tasks deadline	
	task owners	