

Grooming Backlog Meeting 1

Members: Jacob Schuster, Owen Weng, William Duran

Date: 09/05/23

Start time: 9:00 PM

End time: 10:00 PM

Introduction: Our project is to build a database to store properties and relationships of materials for coastal construction. We hope this product can facilitate the development of new materials, and increase cross-collaboration within the field.

Epics:

- Users should be able to browse materials
 - User story 1:
 - Create a graph database to store attributes of materials and establish relationships between them.
 - User story 2:
 - Create a frontend where users can browse for materials based on chemical composition, applications, strength, environmental effects, and other attributes.
 - User story 3:
 - Allow users to save and “like” materials.
- Users should be able to upload new materials
 - User story 1:
 - Create a backend to manage user registrations and login. Users should be verified with an acceptable institution before they can upload materials.
 - User story 2:
 - Use AI and NLP tools to automate parts of the application process; users should be able to upload a research paper, and the LLM should parse most of the relevant information
 - User story 3:
 - Create a portal for site administrators to approve new users and material upload requests.

Timeline: For this sprint, we want to finish most of the components for the frontend, and create a working prototype of the backend / database. Afterwards, we will evaluate the current product to determine the pace for future sprints.