

Grooming Backlog Meeting 6

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Date: 11/13/23

Start time: 10:00 PM

End time: 11:00 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 higher-fidelity graph database schema with more data models and relationships.
 - User story 2:
 - Finish creating a page where users can browse for materials based on chemical composition, applications, strength, environmental effects, and other attributes.
 - User story 3:
 - Finish the material upload questionnaire to optimize the amount of data that can be pre filled by LLM models.
 - User story 4:
 - Allow users to save materials that interest them, and notify them when new/similar materials are added to the site
 - User story 5:
 - Finish creating a visualization where users can view research papers, and the materials associated with them. Papers should be clustered according to their semantic similarity.
- Users should be able to upload new materials
 - User story 1:
 - Create a system to ensure users are associated with an acceptable institution before they can upload materials.
 - User story 2:
 - Finish integrating a Langchain backend to parse data from research papers, automating parts of the new material submission process.
 - User story 3:
 - Create a portal for site administrators to review and accept material upload requests.

Timeline: For this sprint, we want to finish deploying the database schema, and finalize the online data collection form. The frontend will continue to be polished, and we will work on building out the rest of the functionality of the app. The goal is to have a functioning prototype by the end of next week

