

EE/CprE/SE 491 WEEKLY REPORT 5

Start Date – End Date: 10/21/2025-10/28/2025

Group number: sdmay26-16

Project title: AI Home Design Moodboard

Client &/Advisor: Md Maruf Ahamed

Team Members & Roles:

- **Prakeerth Regunath: Frontend & Scheduler/Organizer**
- **Onur Onal: Project Lead/Project Manager & Full-stack**
- **Kemal Yavuz: Lead Backend**
- **Erroll Barker: Lead Frontend**
- **Bae Meh: Backend**
- **Om Sanghvi: Backend**

Weekly Summary

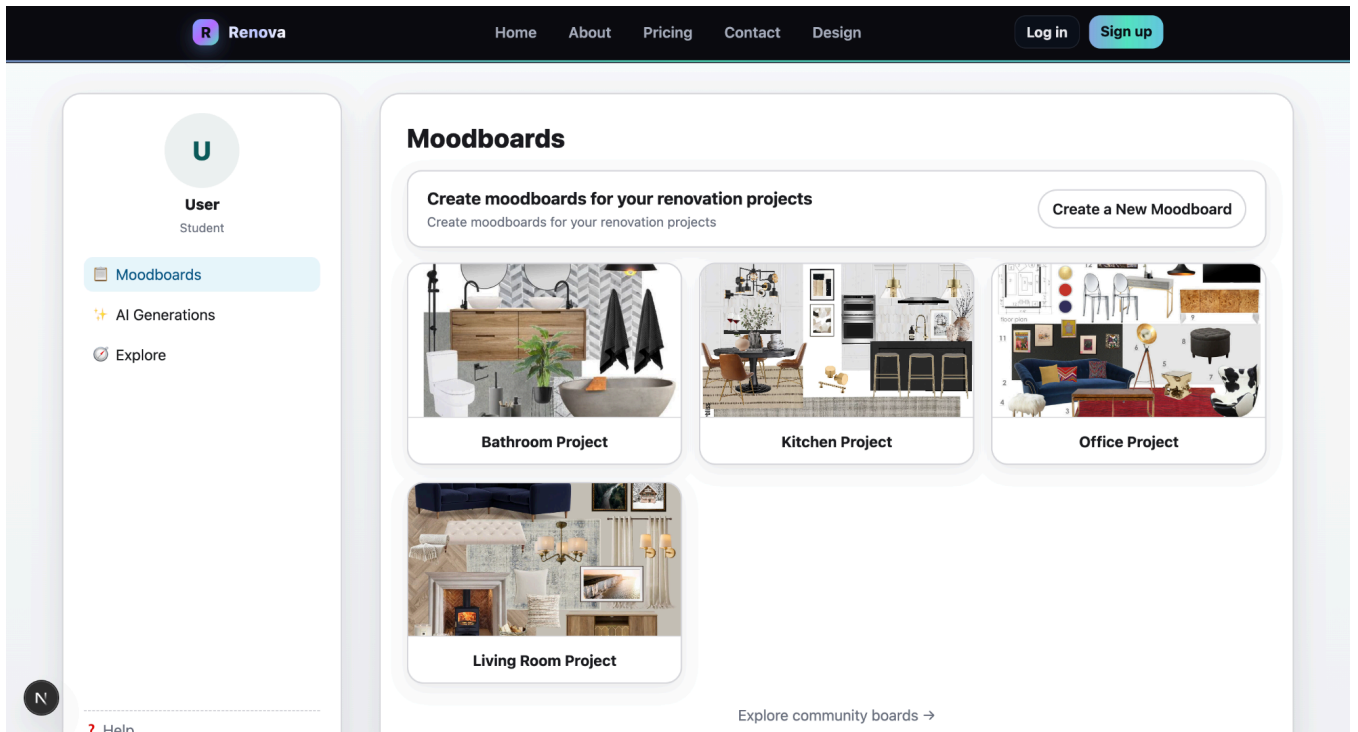
- o ***This week, we progressed with the development of the website. We have also built a base on the moodboard dashboard and continued development on the website's account page, as well as further developing the moodboard AI gen sidebar. The moodboard backend is complete, and the Pinterest Integration is still in progress, as we have gained API access during the time of this report.***

Past Week Accomplishments

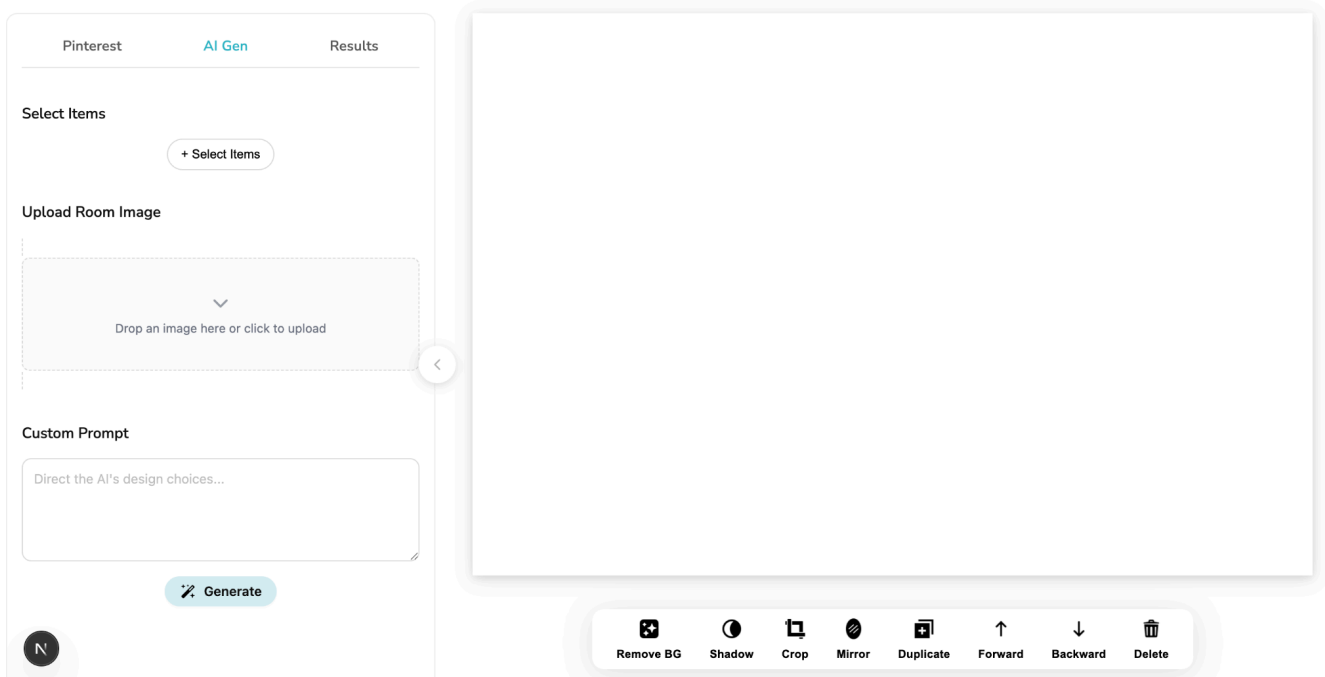
- **Prakeerth Regunath:** This week, for the Pinterest Integration, I made sure to implement a privacy policy page. This page (since updated October 25, 2025) explains that the app collects basic personal information, such as your email, name, and optional occupation, when you register. If you choose to connect your Pinterest account, Renova accesses your boards and pins only to display them within the app; it never alters or creates Pinterest content. For now, we were able to gain access to the API of Pinterest.
- **Onur Onal:** This past week I made further progress in developing the moodboard canvas and sidebar, specifically the AI Gen view of the sidebar. I also fully completed the backend of the moodboards, including schema creation, routes and controller methods. I collaborated with Erroll to determine the structure of user profile and settings pages, proposing a clean structure he can use for his frontend design. I also contacted Pinterest to request for an appeal of our Pinterest API demo request, and met with Kemal to assist with the moodboard canvas development/routing.
- **Om Sanghvi:** Completed the setup of the CI/CD pipeline for the backend and began testing it thoroughly before merging into the main branch. Focused on verifying build consistency and deployment reliability across Docker containers to ensure smooth integration with the rest of the system.
- **Erroll Barker:** I've been working on the account page, focusing on the basic layout and structure. I've also been coordinating with our project manager to discuss design concepts, potential features to include, and how they'll integrate across the site. In addition, I've started creating a node chart to map out page navigation. Identifying which pages connect to one another and which buttons lead to specific destinations.
- **Kemal Yavuz:** This week, I completed the visual implementation of the moodboard hub page on the frontend, ensuring the layout matches our current design direction while using placeholders until backend functionality is finalized. On the backend, I continued development of the moodboard schema and supporting structure to enable secure storage and retrieval once integrated. I also reviewed proper authentication handling practices, focusing on smooth user flow, secure state management, and consistent protection of user data across the platform.
- **Bae Meh:** focused on testing AI image generation APIs to evaluate their performance, cost, and compatibility with our website's design and functionality.

Rough Sketches/Drafts

- Moodboard dashboard page



- Moodboard canvas page



Pending issues

- <Add if needed

Individual Contributions Table

<u>NAME</u>	<u>Individual Contributions</u> <i>(Quick list of contributions. This should be short.)</i>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Prakeerth Regunath	Worked on making a privacy policy page in order to get API access for the Pinterest Integration.	6	30
Om Sanghvi	Finalized CI/CD pipeline and conducted testing for backend Docker integration.	8	28
Erroll Barker	I've been working on the account page and the node mapping.	~7	67
Onur Onal	Developed moodboard sidebar AI Gen view, finished moodboard backend, proposed user profile and settings UI structure, contacted Pinterest, and ensured consistency in moodboard dashboard.	11	60
Kemal Yavuz	Implemented the moodboard hub UI and continued backend database structure work for moodboards.	6	33
Bae Meh	Working on testing a possible image generation AI API for the website.	6	30

Plans for the upcoming week

- **Prakeerth Regunath:** For this upcoming week, I plan to finalize API integration of Pinterest and apply its functionality into the page where the main moodboard is being developed.
- **Onur Onal:** Next week I plan on fully finishing the moodboard page elements and begin working on moodboard features. I'll test Pinterest integration along with Prakeerth since I have access to the API as well, and also set up AWS S3 for moodboard thumbnail image and AI gen image urls.
- **Om Sanghvi:** Merge the tested CI/CD pipeline into the main branch, monitor build stability, and begin preparing deployment documentation for the backend system.
- **Erroll Barker:** Continuing work on the account page, connecting it to the back end to retrieve and display user data, also refining front-end details to improve usability and ensure the overall user experience is as smooth and intuitive as possible.
- **Bae Meh:** My goal for the upcoming week is to integrate the selected AI image generation API into the website or, if integration is not yet possible, secure full access and begin initial implementation testing.
- **Kemal Yavuz:** Next week, I plan to integrate the moodboard hub with the backend once the board routes are completed, implement CRUD functionality for user-owned boards, and ensure authentication flows remain secure and consistent across all pages. I will also work on improving user experience by validating interactions, reducing friction, and ensuring proper communication between the frontend and backend.

Summary of Weekly Advisor Meeting

Our meeting with Professor Maruf is tomorrow (bi-weekly schedule), so we did not meet with him this past week. However tomorrow we will report our progress on moodboard dashboard and canvas development and demo the pages we have implemented via screen share.