

**Group:** Project Team 11

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**Application Name:** RoomEZ (pronounced like Roomies)

**Dependencies:** Xcode 10.2, Swift 4, iOS Deployment Target 12.0+, Firebase/Auth, Firebase/Firestore (installed via CocoaPods), storyboard-based UI, dynamic UITableViewCell for comments and input.

### **Special Instructions:**

- The RoomEZ app can be run directly by opening the project in Xcode and building it on a compatible simulator or physical iOS device.
- Users must register or log in before accessing core features such as tasks, messages, and announcements.
  - User can register with their first name, last name, email, inputting a password, and then confirming password
  - To use the forgot password functionality, you need to use a real email address to register
- Once registered, the user can click on “Account” at the bottom of the screen to edit their profile information/picture, change password, turn on/off notifications, view their room code, or leave the room.
- Once registered, a user can create a roommate group by clicking “Create Room” and using the generated code. Then, they select “Create Room” again, which copies the code to their clipboard. Then, they select “Join Room” and paste the code.
  - Alternatively, if someone else has already created a room, the user can select “Join Room” and enter the code
- Once the user has joined a room, they can view their tasks in the “Tasks” tab. Here they can view tasks by due date and filtered by their status. Here they can also create a new task, describe it, and assign it to anyone in the group. They can set a due date, assign the priority level, and assign the frequency. They can also create a reminder for the task here.
  - Users are not able to assign tasks that are due before the current date/time
- Clicking on a task will open the task detail view, which shows all information about the specific task.
- For recurring tasks, once the task has been marked as “Done,” the next instance of that task will appear in To-Do
- A task’s priority changes to “Overdue” if it is past the due date.

- The user can navigate to the “Announcements” tab and post an announcement with a description, and make it anonymous if they want to. They can also then click on “comments”, and view and even reply to comments.
- Email address cannot be edited → new email means new account needs to be created

Feature	Description	Release Planned	Release Actual	Deviations (If any)	Who/% Worked on
User Authentication (Login/Register)	Firebase email/password authentication with login, registration, logout, and session persistence.	Alpha	Alpha	Was originally going to use a code to verify email and change password, but switched to using a link sent to email	90% - Ananya 10% - Jieun
Join/Create Room System	Users can create or join roommate groups using invite codes stored in Firestore.	Alpha	Alpha		10% - Ananya 40% - Jieun 10% - Kirti 40% - Shriya
Task Creation	Users can add tasks with title, details, assignee, due date, status, and priority.	Alpha	Alpha		30% - Ananya 40% - Jieun 30% - Kirti
Task Status Tracking (To-Do / In-Progress / Done)	Tasks update live as users tap status buttons and changes sync via Firestore	Beta	Beta		50% - Jieun 20% - Kirti 30% - Ananya
Task Filtering by Date	Users can select dates via calendar	Beta	Beta		20% - Jieun 80% - Kirti

	UI to filter daily tasks.				
Task Detail View	Tapping a task opens detail view with editing and status controls.	Beta	Beta		40% - Ananya 20% - Kirti 30% - Jieun 10% - Shriya
Task Delete / Edit	Swipe gestures enable deleting and editing individual tasks.	Beta	Beta		40% - Kirti 60% - Jieun
Announcements Board	Shared announcement feed where users can post room-wide messages.	Final	Final	Was originally going to have this be a chat feature, but instead changed to Bulletin-board style	50% - Jieun 20% - Kirti 20% - Shriya 10% - Ananya
Comments Feature	Users can comment on Announcements	Final	Final	Replaced chat option with the ability to comment on announcements	90% - Shriya 10% - Jieun
Anonymous Announcements	Users can optionally post anonymous comments.	Final	Final		50% - Jieun 20% - Kirti 30% - Shriya
Profile Management	Users can edit display name, password, and profile	Beta	Beta		40% - Ananya 60% - Jieun

	details				
Firebase Data Sync	All major app features sync live with Firestore backend	Alpha	Alpha		60% - Ananya 15% - Kirti 15% - Jieun
UI Polish & Bug Fixing	Visual cleanup, UX fixes, layout consistency, and stability improvements.	Final	Final	Changed main color of app from black to blue	90% - Jieun 10% - Kirti