Capstone Project

Tenant/Landlord Management App

Phase 2

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Selection of framework/architecture

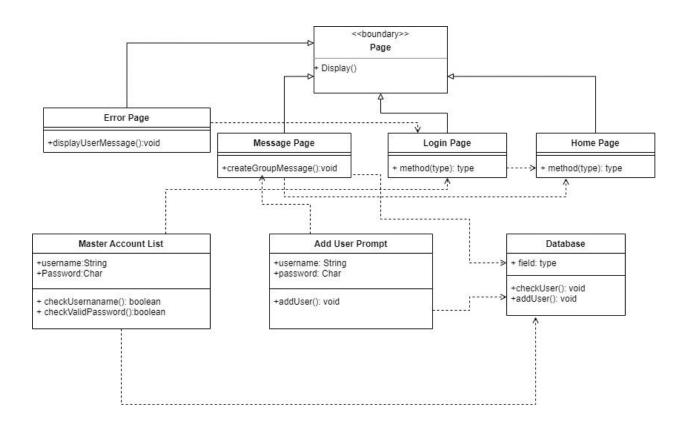
Database(Possible):

- Firebase
- LiteSQL
- MySQL
- PostgreSQL

Framework (Possible)

- React Native
- Android SDK
- Android Studios
- Node js
- Vue js
- Flutter

Static Class Diagram



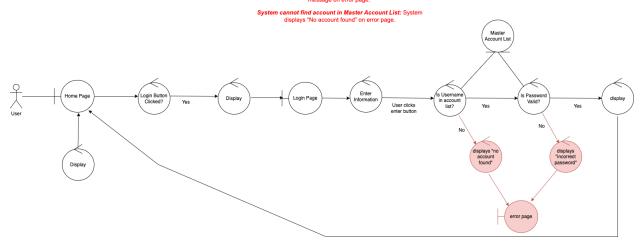
Robustness Diagrams

Login Use Case

Basic Course:

The user clicks login button on the home page. The System Displays the login page. The user enters their password and username and clicks the login button. The system looks up the user in the master account list and checks the password. The system logs in the user. The system display the home page.

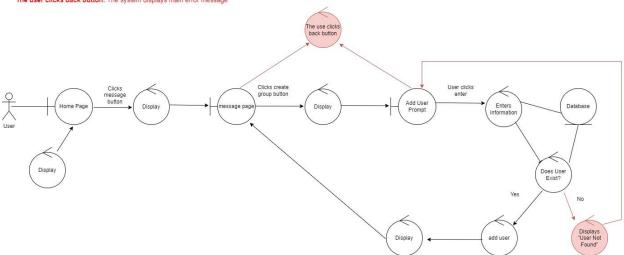
Alternative Course:
User enters wrong password: System displays "Incorrect Password" message on error page.



Create group messaging Use Case
Basic Course:
The system displays the home page. The user clicks the messaging button.
System displays the messaging page. The user clicks the create group message button. The system displays add user prompt. The user enters the users. The system retrieves the selected users from the database. The system adds the selected users to the group message. The system display the group messaging screen

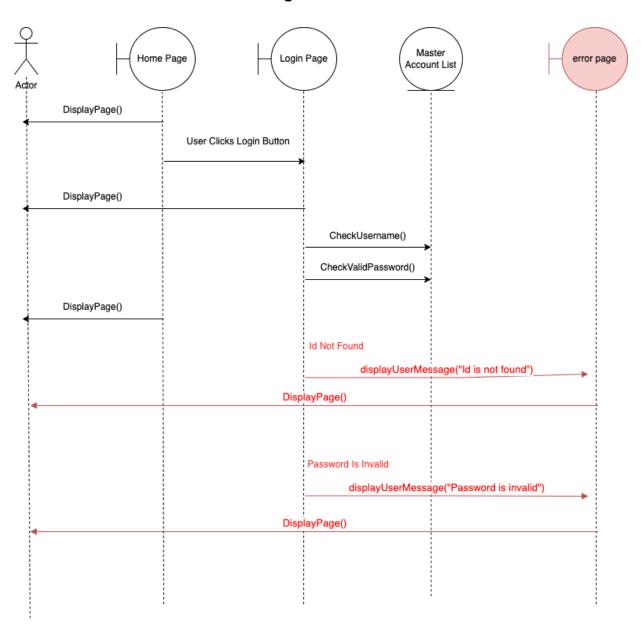
Alternative Course:

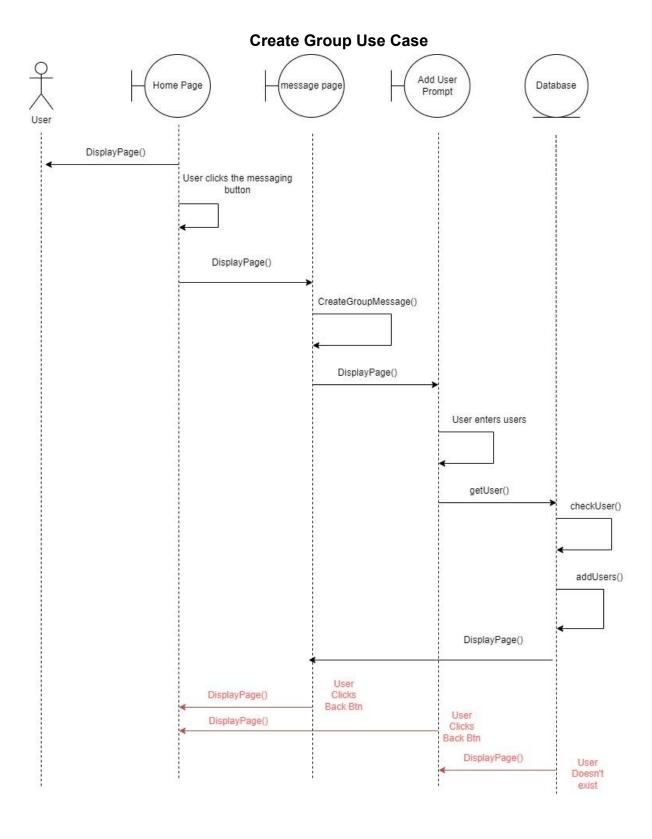
User adds a user who does not exist to the group message: The system displays "User not found" error message Redirects to add user prompt The user clicks back button: The system displays main error message



Sequence Diagram

Login Use Case





SW development plan, Weekly software process schedule

Month		Development Plan	Testing and Demonstration Plan					
Dec	4	PrototypePresentation	Show off an idea of what the project is about					
	11	Finish Presentation	Create a presentation to show off during finals week					
	18	ResearchTesting	During break, we all independently do research on possible database/framework we can use for our project					
Jan	8	 Database Account DB Messages DB Images DB Document DB Apartment DB Account Landlord/Tenant/Worker/Guest User Login Detail Personal Info 	User can create account Landlord can access database					
	22	 Apartment Add/Modify/Delete/Store Document Add/Modify/Delete/Store 	User can add/modify/store documents Landlord can add/modify/store apartments					
Feb	5	 Images Add/Store/Delete Share Camera Take Pictures Store/Delete 	User can add/modify/store/share images Users can take/store/delete pictures					
	19	 Messaging Chat between two user Group Chat Direct messaging 	Users can create group chats/message other users Users can message landlord					

Mar	5	 Notification Landlord's Announcements Notices/Violations Evictions 	Users can receive notifications from landlord Users can receive automatic notifications				
	19	 Payment System Renting apartment/pay rent Landlord receive payment Worker gets payed Manual/Automatic payment 	User can make payments/see payment history User can receive their bills				
Apr	2	Additional FeaturesGUI and structure	User can now interact with the program and all of its features We also reserve this time for add additional features not originally planned				
	23	Bug Fix and polish	User can use the program without being a buggy mess We're gonna fix possible bugs and make some polish (idiot proof the whole thing)				

Gantt Chart

	Dec			Jan		Feb		Mar		Apr	
	4	11	18	8	22	5	19	5	19	2	23
Prototype											
Presentation											
Research											
Testing											
Set up Account											

Database						
Apartment						
Documents						
Images						
Camera						
Messaging						
Notifications						
Payment System						
Additional Features						
Bug Fixes						
Polish						