

Final Project Group 4

[Github Repo](#)

[Product Expectations](#)

Large Appliances:

1. Stove / oven
2. Fridge
3. Microwave
4. Dishwasher
5. Water heater - licensed plumber
6. Laundry unit (washing / dryer)

Plumbing Unit: - issues: leak/clog/low pressure

1. Water heater
2. Toilet
3. Faucets / drain - Hand sink, shower / bath tub
4. Water supply lines
5. Pipes
6. Water filtration - drinking water/ softener)
7. Sewer Lines
8. Garbage disposal
9. Water pressure
10. Leaks

Electrical Unit:

1. Electrical Panel
2. Electrical wiring
3. Light fixtures/Ceiling fans
4. Smoke and carbon monoxide detector
5. Electrical appliances - stoves, ovens, washers, dryers, etc.
6. Outlets/GFCI outlets
7. Community gates / garage doors

8. Home security systems
9. HVAC - electrical components

Google Maps API:

<https://developers.google.com/maps/documentation/places/web-service/search>

https://developers.google.com/maps/documentation/places/web-service/supported_types

Timeline:

- Base requirement functionalities of Model and View will have finished 1.5 weeks, approx. by 4/11/25

To Do by Sat., 3/29/25:

a. Model - Emilio

1. Create User interface
2. House interface
3. MaintenanceItem superclass interface
 - a. Needs maintenance method
 - b. Gets and sets
 - c. Subclasses with specifics interface

b. View - Lori

- GUI frame of list that displays the maintenance items
 - Display list sorted by closest maintenance needed date
- Exit button to exit program
- Username display
- Button connection for the click action of a maintenance item that has appeared as an alert or action needed item
- Filter button
- Have additional features 1 week after by approx. 4/18/25

Object Definition:

User:

- User ID:
- Name/Username:
- Email:

Home:

- Home ID
- User ID
- Address

Maintenanceltem: -> Electrical Unit (wattage)/ Plumbing Unit (liters/gals)/ Landscaping (Sq.ft) / Carpenter (Sq.Ft)/ HVAC Unit (? quantity of ventilation/ducts) / Roofing / Appliances

- Home ID
- Name
- Initial Install Date
- Last Maintained Date
- LifeSpan
- Category Type (plumbing/electric)
- Location/Room (bed/bath)

Getters and Setter():

- ...

NeedsMaintenance():

- If there's no last maintained go off install date
- Calculates if an item needs checkup/maintenance based on last maintained and lifespan
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2025-03-25

* What are you building?

Home Maintenance app

- * What are the initial features for the application?
 - General list of home maintenance items that can be picked by the user to set up their profile and set a home that they plan to keep track of for maintenance/or multiple homes if they have.
 - User object - username, name, email...
 - Home object - user id, address...
 - Item for maintenance object - start date, expiration or alert time for needed maintenance, maintenance type...
 - * What are the *minimum* additional features you plan to implement?
 - Be able to load in lists of items / previously saved lists, and modify them.
 - Be able to search for items in the collection.
 - Be able to sort home items by expiration or category/maintenance type.
 - Be able to filter items.
 - * What are your stretch goals (features beyond the minimum)?
 - Add images of appliances
 - Implement additional api's to connect user with */ocal* tradespeople to maintain selected appliances.
 - Display a map and incorporate geographic data.
 - * Go over your initial design.
- View - list to scroll through and get user input action -> sends over to controller to be sent over the model to be processed
- * Special emphasis should be placed on how you plan to break it up
 - * MVC, presenter, file management, different input validation, testing, documentation, etc.
- * How do you plan to break up the work?
 - We will split by having one person focusing on View and other person working on model.
 - * What is your teams timeline and major check-in points?
 - Check ins Tuesdays during team meetings and Saturdays

Notes:

- Start 1 person - 1 house
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Tasks: 2025-03-18

1. Trial Github merge and conflict
2. Begin a Github Project
3. Draft proposal -> finalize & submit by Tues., 2025-03-25

Proposal:

1. Receipt Checking app?
2. Zillow API Data processor?
3. Home Maintenance app?
4. Health Access app?

Emilio's ToDo for Saturday?:

4. Create User interface
5. House interface
6. MaintenanceItem superclass interface
 - a. Needs maintenance method
 - b. Gets and sets
 - c. Subclasses with specifics interface

Resources:

[Github Projects](https://github.com/CS5004-khoury-lionelle/FinalProject/blob/main/Instructions/GitHubProjects.md)¹

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