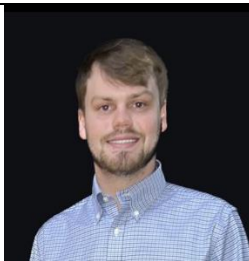


SP-5 -> ORANGE - Dynamic Grocery List

CS 4850, Section 01, Spring 2024

1/18/24



Lee Martin



Richard Thomas



Jesse Schulteis



Yesahk Ergano

Project Team

Roles	Name	Major responsibilities	Cell Phone / Alt Email
Project owner	Faculty Member	N/A	N/A
Team leader	Lee Martin	Documentation/Developer	470-774-6074 Leemartin3232@icloud.com
Team members			
	Richard Thomas	Developer	404-932-3120 RThomas1137@gmail.com
	Yesahk Ergano	Test	678-599-3598 Yesahkergano1272@gmail.com
	Jesse Schulteis	Developer	678-687-3102 Schulteis360@gmail.com
Advisor / Instructor	Sharon Perry	Facilitate project progress; advise on project planning and management.	770-329-3895

Project Overview:

Everyone is familiar with driving to the grocery store and driving back home to notice that you have forgotten to buy an item... better yet your companion has requested that you get them a last-minute item for you to only forget about since you had a static list.

Our Mobile Dynamic Grocery List app will allow users to go to the grocery store confidently. Users with our application will be able to go through the aisle with no hesitation and companions will be able to add last-minute items to be bought while the main user cruises down the aisle with blazing speed and precision. Ultimately, our app will have you dancing with happiness as you conquer each item on your list.

We will be designing an intuitive dynamic grocery list application designed to simplify your shopping experience. Built with Flutter for a seamless and responsive user interface, and powered by Firebase for real-time data synchronization, this app will offer a highly interactive and user-friendly platform for managing grocery shopping lists.

Flutter is an open-source UI software development kit that was developed by Google. Dart is the associated programming language that incorporates the framework Flutter. Flutter is known for fast development, cross-platform between iOS and Android devices, and offers fantastic UI and performance. Firebase is another framework that is developed by google that is known for providing seemingly easy integration with iOS and Android devices while providing user authentication, real-time database, and cloud storage.

Project Website:

Website Link (subject to change): www.dynamicgrocerylist2p5.com

Final Deliverables

1. Final Report
2. App source files
3. Website
4. GitHub link
5. Final Video Presentation

Milestone Events (Prototypes, Draft Reports, Code Reviews, etc.)

#1 Initial Design and Concept Discussion– Project Meeting by **Jan 22**.

- Mockup/Database Design.
- Coding Structure/Draft Completion.
- Division of workload balance.

#2 – Development and Prototype Completion – By **Feb 25**

- Functional but basic applications are produced.
- Database is properly configured for user authentication and data-separation per user.
- Testing and refinement completed through the 25th to up until we present the prototype.
- Code Review before prototype completion.

#3 – Final Report & Review Draft – By **Mar 25**

- Complete the final draft report to review with Perry.
- Final Report & Review will also be an additional code review.

This is a list of Deliverables for the entire course.

Team/Project Selection document (Individual Assignment)

Weekly Activity Reports (WARs – Individual Assignment)

Peer Reviews (Individual Assignment)

Project Plan (Group Assignment)

Present Prototype for Peer Review (Group Assignment)

Website (Group Assignment)

Video Demo (Group Assignment)

C-Day Application/Submission (Group applies to C-Day but you submit individual bonus points documentation in Individual Assignments)

Final Report Package (Group Assignment)

Meeting Schedule Date/Time

The determined meeting time/discussion will be Monday and Wednesday night from anywhere between 6:30 pm to 12:00 AM. Impromptu meetings can and will be expected during the development process. Impromptu meetings and chat will always be encouraged throughout the process.

Collaboration and Communication Plan (Applies to All)

Communication – *All major communication will be done through Microsoft Teams provided by Perry for monitoring purposes.*

Collaboration – *GitHub (Version Control), Microsoft Teams*

Other Tools – *Visual Studio Code/Figma*

Risk Assessment:

1. Technology Limitations – Using Firebase as a way for individual users to interact with the grocery list independently and also as a group. Using Flutter as this is a new Framework to most of us learning Dart on the fly.
2. Project Management Risk – Scope creep, we need to make sure that what we are developing has strict guidelines with requirements written out to ensure that scope creep does not occur.

Version Control Plan:

1. Create an organizational GitHub environment. This will include a README file to describe the project and the various features that were defined/developed from the requirements specification. Initialize a main branch that will be used for the prototype and final version.
2. Commits will be closely regulated and be made in small increments so that the code does not have to risk being lost. Messages along with the commits should also be enforced to create a setting of clarity.

3. Pull request – Once we are done with a feature, we will merge it. Before we do merge it we will make sure that it will be compatible with firebase, and h

Misc Planning:

Project Name:		Dynamic Grocery List App SP-5																
Report Date:		4/21/2024																
Deliverable	Tasks	Complete%	Current Status Memo	Assigned To	Milestone #1 - Requirements				Milestone #2 - Project				stone #3 - Prepare Final Re				C-DAY	
					01/18	01/19	01/20	01/22	02/03	02/05	02/15	02/25	03/08	03/16	03/20	03/30	04/25	04/25
Requirements	Meet with stakeholder(s) SH	0%		Lee Martin	5	10	5											
	Define requirements	0%		Lee Martin		7	5	5										
	Review requirements with SH	0%		Lee Martin			3											
	Get sign off on requirements	0%		Lee Martin				5										
Project design	Define tech required *	0%		RT,LM,YE,JS		10	8	5										
	Database design	0%		Richard Thomas		10	5	10										
	UI design	0%		Lee Martin				8	8									
	Functional design	0%		Richard Thomas Jesse Schulteis			3	5	5	8								
	Develop working prototype	0%		Richard Thomas, Jesse Schulteis				15	10	10	5							
	Test prototype	0%		Yesahk Ergano						3	5							
Development	Review prototype design	0%		Yesahk Ergano							10	8	10					
	Rework requirements	0%		Jesse Schulteis, Richard Thomas									9	6	10			
	Document updated design	0%		Lee Martin									7	5	8			
	Test product	0%		Jesse Schulteis, Richard Thomas											10	10		
Final report	Presentation preparation	0%		Lee Martin											8	5	15	10
	Poster preparation	0%		Lee Martin/Richard Thomas, Jesse Schulteis												7	5	5
	Final report submission to D2L and project owner	0%		Lee Martin														15
	Total work hours				341	5	17	33	26	43	23	31	18	26	29	33	22	15
All code will be done through an organizational GitHub for source control																		
Legend																		
Planned																		
Delayed																		
Number Work: man hours																		

Time Management:

- Regular Check-Ins
- Back End Programming/Problem-Solving

Resource Requirements:

- Beginner documentation review for Flutter
- Beginner documentation review for Firebase

Back-up Plans:

- If issues arise implement database design or back end. We need to have a type of fallback design.

Responsibility Flexibility:

- It should be noted that roles have been allocated, but at any time you must be ready to step out of the role to help achieve a common goal.

