AppDev2 Final Report

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# Project Aim and Description

The Grocer Guide app is a grocery list manager app. The goal for the application is for a user to have access to a comfortable, simple, and useful application that allows the user to organize stores, items, lists of items and recipes as they wish. The app starts by allowing the user to either login or register and then sends them to the home page, where they can create and manage items and lists used to keep track of what they need to buy. There are multiple tabs on a navigation bar at the bottom of the screen. The first tab displays the individual items that the user created, each containing a price, name, and category. The next tab shows the various lists of items that the user may have created, adding a name and category to the list and total cost, the last of which is automatically updated according to the items inside the list. The next tab after is the recipes tab, which on top of lists, adds instructions, a description, and an image to the specific lists. After we have the stores tab, in which are displayed the stores the user may have saved, the stores containing a name and a list of items. Finally, there’s the settings page, where a user can see their profile and customize the color theme of the application to their preference.

With this the user has access to a quick and efficient way to have all their information in terms of grocery shopping, all at their fingertips.

# Functional and non-Functional requirements

## Functional requirements:

* User should have access to CRUD functionality for Items, Item Lists, Recipes and Stores
* User should have access to Authentication from the Login Page
* User should have access to Registration from the Registration Page
* User should be prompted with an error message explaining why the Authentication failed, meaning appropriate error handling for the Login and Registration pages
* User should be able to Sign Out of the application
* User should be able to customize the theme of the application with the use of a Color Theme Picker

## Non-Functional requirements:

* Pages should update seamlessly and automatically
* System should implement Firebase for communication, querying and displaying of data
* All writing should be clear and easy to read­­

# User Stories

1. As a user, I want to be able to login to the app so that I can access my personal grocery list manager.
2. As a user, I want to be able to register to the app so that I can begin the personalization of my grocery list manager.
3. As a user, I want to be able to logout of the app so that I can secure my personal grocery list manager behind my login information.
4. As a user, I want to be able to create items so that I can add my personal list of shopping items to my grocery list manager.
5. As a user, I want to be able to read item information so that I can access my personal list of shopping items from my grocery list manager.
6. As a user, I want to be able to edit item information so that I can customize and change my personal list of shopping items in my grocery list manager.
7. As a user, I want to be able to delete items so that I can remove mistakenly added or no longer wanted items from my personal list of shopping items from my grocery list manager.
8. As a user, I want to be able to create lists of items so that I can add my personal lists of shopping items to my grocery list manager.
9. As a user, I want to be able to read information on lists of items so that I can access information from my personal lists of shopping items from my grocery list manager.
10. As a user, I want to be able to edit information on lists of items so that I can customize and change my personal information of lists of shopping items in my grocery list manager.
11. As a user, I want to be able to delete lists items so that I can remove mistakenly added or no longer wanted lists from my personal lists of shopping items from my grocery list manager.
12. As a user, I want to be able to create recipes so that I can add my personal list of recipes to my grocery list manager.
13. As a user, I want to be able to read recipe information so that I can access information on my personal list of recipes from my grocery list manager.
14. As a user, I want to be able to edit recipe information so that I can customize and change information from my personal list of recipes in my grocery list manager.
15. As a user, I want to be able to delete recipes so that I can remove mistakenly added or no longer wanted recipes from my personal list of recipes from my grocery list manager.
16. As a user, I want to be able to create stores so that I can add my personal list of shopping stores to my grocery list manager.
17. As a user, I want to be able to read store information so that I can access information on my personal list of shopping stores from my grocery list manager.
18. As a user, I want to be able to edit store information so that I can customize and change the information of my personal list of shopping stores in my grocery list manager.
19. As a user, I want to be able to delete stores so that I can remove mistakenly added or no longer wanted stores from my personal list of shopping stores from my grocery list manager.
20. As a user, I want to see prompts about why my login or registration has failed, so that I can understand what part of my input was wrong.
21. As a user, I want to be able to customize the color theme, so that I can have a more personalized grocery list manager.

# Test Cases

1. Given I am on the Login Page,

When I input “daniel@gmail.com” into the email field,

And I input “daniel" into the password field,

Then I see the Home Page

1. Given I am on the Registration Page,

When I input “testuser@gmail.com” into the email field,

And I input “testuser" into the password field,

Then I see the Home Page

1. Given I am on the Add Item Page,

When I input “broccoli” into the item name field,

And I input “vegetable" into the item type field,

And I input “5" into the item cost field

Then I see the Items Page with the record “broccoli, vegetable, 5”

1. Given I am on the Edit Item Page for the record “broccoli, vegetable, 5”,

When I input “apple” into the item name field,

And I input “fruit" into the item type field,

And I input “3" into the item cost field,

Then I see the Items Page with the record “apple, fruit, 3”

1. Given I am on the Delete Item Page for the record “broccoli, vegetable, 5”,

When I click on “delete”,

Then I see the Items Page without the record “broccoli, vegetable, 5”

1. Given I am on the Add Items List Page,

When I input “Monday” into the list title field,

And I input “Intense" into the list type field,

And I select the records “apple, fruit, 3" and “corn, grain, 4”,

And I click on the “back” arrow,

And I click on “save”,

And I click on the record “Monday, Intense”,

Then I see the Items List Page with the record info “apple, 3”, “corn, 4”, “7”

1. Given I am on the Edit Items List Page for the record “Monday, Intense”,

When I input “Tuesday” into the list title field,

And I input “Relaxed" into the list type field,

And I deselect the record “apple, fruit, 3",

And I click on the “back” arrow,

And I click on “save”,

And I click on the record “Tuesday, Relaxed”,

Then I see the Items List Page with the record info “corn, 4”, “4”

1. Given I am on the Delete Items List Page for the record “Monday, Intense”,

When I click on “delete”,

Then I see the Items Lists Page without the record “Monday, Intense”

1. Given I am on the Add Recipe Page,

When I input “Hot Water” into the recipe title field,

And I input “I like to keep it simple" into the recipe description field,

And I input “1.Fill pan 2.Boil pan” into the recipe instruction field,

And I input “https://www.shorturl.at/img/shorturl-icon.png” into the image URL field,

And I select the list “Monday, Intense",

And I click on “back” arrow,

And I click on “save”,

And I click on the record “Monday, Intense”,

Then I see the Recipes Page with the record info “Hot Water, I like to keep it simple”

1. Given I am on the Edit Recipe Page,

When I input “Cold Water” into the recipe title field,

And I input “I really like to keep it simple" into the recipe description field,

And I input “1.Fill pan 2.Cool pan” into the recipe instruction field,

And I input “https://cdn.pixabay.com/photo/2015/04/23/22/00/tree-736885\_1280.jpg” into the image URL field,

And I select the list “Tuesday, Relaxed",

And I click on “back” arrow,

And I click on “save”,

And I click on the record “Monday, Intense”,

Then I see the Recipes Page with the record info “Cold Water, I really like to keep it simple”

1. Given I am on the Delete Recipe Page for the record “Hot Water, I like to keep it simple”,

When I click on “delete”,

Then I see the Recipes Page without the record “Hot Water, I like to keep it simple”

1. Given I am on the Add Store Page,

When I input “IGA” into the store name field,

And I select the records “apple", “corn”,

And I click on the “back” arrow,

And I click on “save”,

Then I see the Stores Page with the record “IGA”

1. Given I am on the Edit Store Page for the record “IGA”,

When I input “Super C” into the store name field,

And I deselect the record “corn”,

And I click on the “back” arrow,

And I click on “save”,

Then I see the Stores Page with the record “Super-C”

1. Given I am on the Delete Store Page for the record “IGA”,

When I click on “delete”,

Then I see the Stores Page without the record “IGA”

# Individuals role and responsibilities

## James

I worked mostly in the backend, ensuring a functional Model to create objects and a reliable connection to the firebase servers allowing proper authentication and handling of Data within Firestore.

## Leonella

I worked in the front-end most of the time by making sure that everything that happened in the backend was displayed correctly. In the project, I worked on the lists page and the recipies page by making sure that it was displayed in a organized way. I also worked on the home page to show the list choose by the user. Finally, I add a function that allows the use to go to the localization of the store.

## Daniel

I worked on the settings page, more specifically the color picker. I also worked on the recipes page, where I added the Add Recipe feature. I made sure that when selecting the list of items for the recipe, that a new list of items could be created, and that when selecting items for said new list, new items could be created.