

CSS545(Checkpoint 3 – Basic Functionality)

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After building the prototype, I integrated an SQLite database to dynamically store and retrieve recipes, removing the need for hardcoded recipe data. Additionally, I implemented tombstone management to save the user's current state, so they can return to the same point if they leave the app temporarily.

For the next phase of the project, the work remains to reach the Beta stage are:

- 1.) User Registration and Google Authentication:** Implement user registration for new accounts and integrate Google Sign-In to broaden accessibility.
- 2.) Recipe Database Expansion:** Populate the SQLite database with a wider variety of recipes, including ingredients and instructions for each.
- 3.) Recipe Filters on Home Screen:** Add filters on the home screen to allow users to search recipes based on spice level, preparation time, popularity, and favourites, enhancing search flexibility.
- 4.) Allergen and Warning Notifications:** Implement a notification system for allergen alerts and dietary warnings, ensuring user safety before viewing recipes.
- 5.) User Interface Enhancements:** Refine the UI with improvements to visual design, layout consistency, and accessibility to provide a polished user experience.
- 6.) Comprehensive Testing and Debugging:** Perform thorough testing across all features to identify and resolve any remaining bugs, ensuring a stable and reliable app.
- 7.) Documentation and Code Optimization:** Create clear documentation for features and optimize code for efficiency, making the app easier to maintain and scale.