

# Innovation & Extra Functionality

**Student Number:** G00472940

## 1. Multi-Select Dietary Filters

- **Description:** Users can filter recipes based on multiple dietary requirements such as Vegetarian, Vegan, and Gluten-Free.
- **Implementation:** A multi-select dropdown was added on the home page using Ionic's `<ion-select>` component with the multiple option. Users can select one or more dietary preferences, which are then applied when querying the Spoonacular API.
- **Innovation:** The ability to select multiple dietary filters at once allows users to get recipes that satisfy all their dietary needs simultaneously. For example, a user could search for recipes that are both vegan and gluten-free. This exceeds the standard requirement of a single dietary filter.

## 2. Dark Mode / Theme Switching

- **Description:** Users can switch between light and dark themes from the settings page.
- **Implementation:** A toggle was implemented using Ionic's `<ion-toggle>` component. The user's theme preference is saved using local storage, ensuring the app remembers their choice even after closing and reopening.
- **Innovation:** Dark mode improves accessibility, especially for users in low-light environments. By allowing theme persistence, the app ensures a consistent user experience. This feature goes beyond the basic functionality outlined in the project specification.

## 3. UI/UX Enhancements

- **Recipe Display:** Recipes are displayed with thumbnails and "Details" buttons for easy navigation to the recipe information page. This visual representation makes the app more intuitive and user-friendly.
- **Loading Indicators:** While recipes are being fetched from the API, a loading indicator is displayed. This prevents confusion and improves the performance of the app.
- **Innovation:** These enhancements make the app feel more professional, which is beyond the minimum project requirements.