ITPV302 Presentation

|  |  |
| --- | --- |
| **Slides** |  |
| First slide | Nathan |
| Introduction |
| Objectives |
| Requirements | Max |
| Use case |
| Database | Zanele |

Nathans Script:

Good morning and welcome to the presentation of our app called Thyme To Cook.

Many people struggle to find recipes that suit their needs and preferences. Another common issue is the is a lack of beginner-friendly recipes which could lead to people preferring fast food.

To simplify the process, we have created a cross-platform app for both android and web with the same interface for simplicity with offline functionality. In our app there are numerous filters to find recipes to suit your needs and construct a meal plan. One filter to point out would be the filter by available ingredients.

App Demonstration

|  |  |
| --- | --- |
|  | Speaking parts |
| Nathan | 1-3, 10-12 |
| Max | 3-6 |
| Zanele | 7-9 |

Login details:

|  |  |
| --- | --- |
| Username |  |
| Password |  |

1. Login using the above set username and password
   1. App nav – from OpenAppView to LoginView to MainNavigation
2. Explain the use of color (main colors aren’t white etc)
3. Demonstrate the widgets on the home screen
4. Open one recipe from home screen
   1. Show ingredients and then instructions +features
   2. Show grocery list
5. Search for a recipe and like it
6. Then navigate to saved screen to show that the recipe is saved there and can be opened
7. Demonstrate the meal planner
8. Demonstrate adding recipes
9. Show the profile screen to show that it shows recipes the user has added etc.
10. Show settings where the user can change the Ingredients to Avoid, Diet, Measurement preferences
11. Navigate to the home screen and ask if there are questions
12. IF ADMIN SIDE IS ASKED
    1. Show the Firebase console
    2. Firebase analytics – for usage stats
    3. User Authentication section for the usage stats of users
    4. Firebase

Slide 1: Introduction (Nathan)

Start by addressing the problem: Many people find it challenging to locate recipes suited to their needs, especially beginners who require easy-to-follow instructions.

Briefly describe the impact: Explain how the lack of accessible recipes can discourage people from cooking or trying new dishes.

Introduce the app’s purpose: Present Thyme To Cook as a solution that helps users discover and organize recipes, customize meal plans, and simplify meal preparation.

Slide 2: Objectives (Nathan)

State the main objectives:

Personalize meal plans based on user preferences.

Filter recipes by available ingredients.

Enable offline recipe saving.

Provide clear, step-by-step instructions for cooking.

Allow scheduling with a built-in meal planner.

Make the app cross-platform for accessibility.

Briefly explain each objective’s benefit: Emphasize how these objectives address the main problem by making recipe management easy, personalized, and accessible.

Slide 3: Requirements (Max)

* Highlight hardware requirements:
* Mobile devices need at least 2GB of RAM.
* A stable internet connection for the web app.
* Explain the software stack:
* Development is done in VS Code with Flutter (v3.24.2) and Dart (v3.5.2).
* Firebase (v13.17.0) serves as the backend for authentication, storage, and analytics.
* Minimum Android API level 21 for compatibility.
* Web optimization for MS Edge browser.
* Database hosting: Firebase’s cloud infrastructure hosts the database, ensuring real-time updates and secure data management.

Slide 4: Use Case Diagram (Max)

* Explain the roles and features for each user type:
* Guest Users: Limited to certain features like viewing recipes, meal planning, and grocery list access.
* Registered Users: Full access to features like meal planning, grocery lists, and saved recipes.
* Admin: Access to manage users and recipes and view analytics.
* Highlight the flexibility: Mention that this setup allows Thyme To Cook to serve a range of user needs, from casual browsers to dedicated users and administrators.

Slide 5: Relational Database Diagram (Zanele)

* Introduce the purpose of the database structure: Explain that the relational database is designed to store user data, recipes, meal plans, and other app components in a structured, accessible format.

App Demo Script:

1. Login, Register, and Forgot Password (Nathan)

Open the app, show the login screen, and log in using your credentials.

Briefly mention that Firebase secures user authentication.

Show the forgot password option and registration screen.

2. Home Screen and Recipe Viewing (Max)

Demonstrate the main navigation from the home screen.

Point out design choices like color and widget placements.

Open a recipe from the home screen and showcase its details (overview, ingredients, and instructions).

Emphasize interactive features, such as viewing ingredients and adding items to the grocery list.

3. Grocery List and Search Screen (Max)

Navigate to the grocery list to show how users can add ingredients directly from recipes.

Demonstrate checking off items and how this feature simplifies shopping.

Go to the search screen, search for a recipe, and "like" it.

Explain how the liked recipes will appear in the saved recipes section.

4. Saved Recipes and Meal Planner (Zanele)

Show the Saved Recipes screen and highlight that any "liked" recipes are stored here for easy access.

Open a saved recipe to demonstrate that users can view it directly from the saved section.

Go to the Meal Planner and show how recipes can be scheduled for specific days, helping users organize their week.

5. Add Recipe and Profile Screen (Zanele)

Demonstrate the Add Recipe screen, where users can input new recipes.

Show the form fields for adding ingredients, instructions, and tags.

Move to the Profile Screen and explain that it displays the user’s saved and added recipes, making it easy to track their favorite dishes.

6. Settings (Zanele)

Open the Settings Screen to demonstrate options like diet preferences, ingredient restrictions, and measurement unit choices.

Explain that these preferences personalize the app’s recipe recommendations for each user.