

A PROJECT IN IT 332: INTEGRATIVE PROGRAMMING AND TECHNOLOGIES

NUTRIFOOD LIST

A RECIPE MOBILE APPLICATION FOR A HEALTHY EATING



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PROJECT DESCRIPTION

Most people nowadays are trying to live a healthy lifestyle by eating, preparing, cooking, and digesting nutritious meals, but first, they need a recipe for that healthy menu because not everyone is knowledgeable about what they are going to eat when they are on a different type of diet and under doctor's recommendations.

The problem is that if they wanted an easy and stress-free way to collect recipes, they should buy cookbooks from the store. It would be simple for them because cookbooks already contain a compilation of various lists of healthy recipes, which must be purchased before you can learn and discover the delicious recipes inside. However, having cookbooks is still an issue since people will still look and search on the internet, wasting much of their time

In response, the team aims to implement an automated mobile recipe application that combines both the list of the ingredients and the procedure and a tool where in just a single tap they will know the ingredients for the converted calories and other health benefits. So that it is a convenient application for everyone, it is a less time-consuming app where the user can enjoy cooking healthy foods in their kitchen anytime.

DEVELOPMENT MODEL

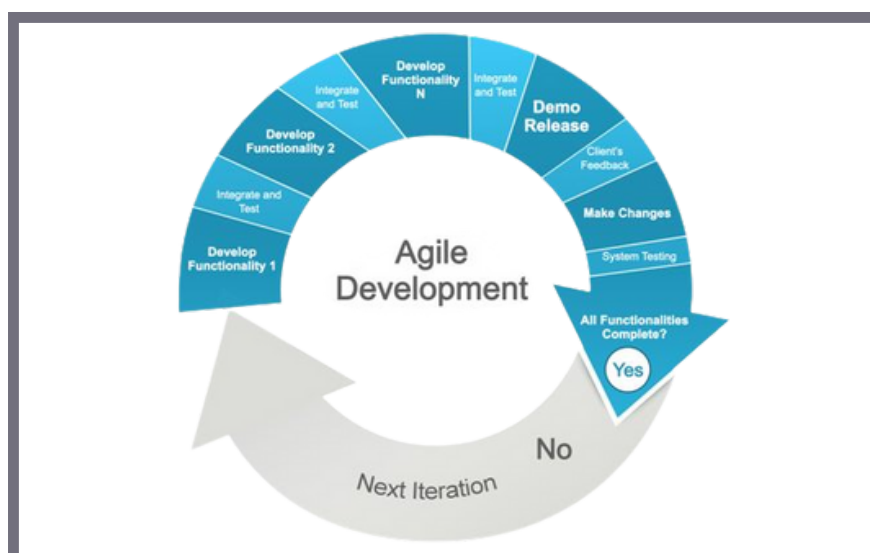


FIGURE 1

The NutriFood List: Recipe for a Healthy Eating was designed and developed using the Agile Development approach. As shown in Figure 1. This method is a project management approach that is mostly used in software and mobile app development. Moreover, the proponents chose this kind of model because of its advantages also it will considerably enhance the application, This will help the developers to ensure the quality of the system to perform as it should. . The Agile Method way is to break up the project into smaller phases to ensure continuous improvement at every stage.

NUTRIFOOD LIST : A RECIPE MOBILE APPLICATION FOR A HEALTHY EATING



INITIATION AND REQUIREMENT ANALYSIS

In this phase, the team first addressed the project's goal, which is to create a mobile application that provides a healthy guide in making and cooking nutritious foods for all possible future users. . The application requirements intended by the team will be to provide the user with reliable kitchen assistant, where it is a convenient application for everyone, and to create a less time-consuming app where the user can enjoy cooking healthy foods in their kitchen anytime.

DESIGNING THE APPLICATION

The team reviews the requirements collected as input in this phase to identify which software tools will be required for the development. To illustrate how the actual application structure will look, a wireframe and mock-up design would be utilized. The team intends to create a graphical interface for the application a user-friendly and simple to use.

DEVELOPMENT

During this phase, the proponents begin writing code. This is also the stage at which the mock-up and prototype designs will be made into a fully functional mobile application. The proponents would create an application that is both in line with the goals and successful enough to meet the system's users' needs.

APP TESTING AND DEBUGGING

The testing phase is for the developers to find errors and bugs. This will also test the quality of the mobile application. This phase is conducted to make sure that every function is working properly. This is the stage of determining if the system is working as it was supposed to and it has achieved the requirements..

LAUNCH

The mobile application will be launched after testing so that users can access and use it.

REVIEW/MONITORING

During this phase, the goal is to be able to monitor or examine any issues or problems that may arise on the mobile application and attempt to fix them.

SYSTEM ARCHITECTURE

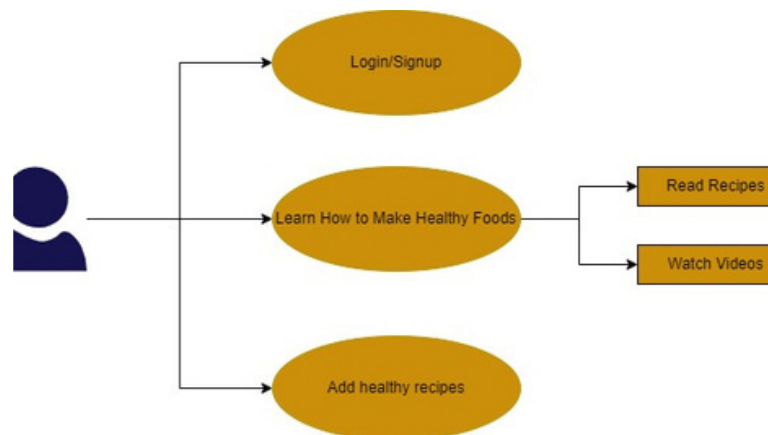


Figure 2
Use Case Diagram

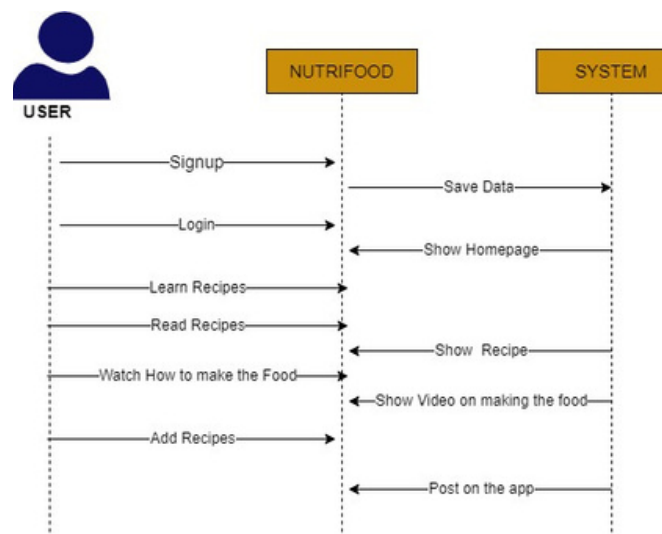
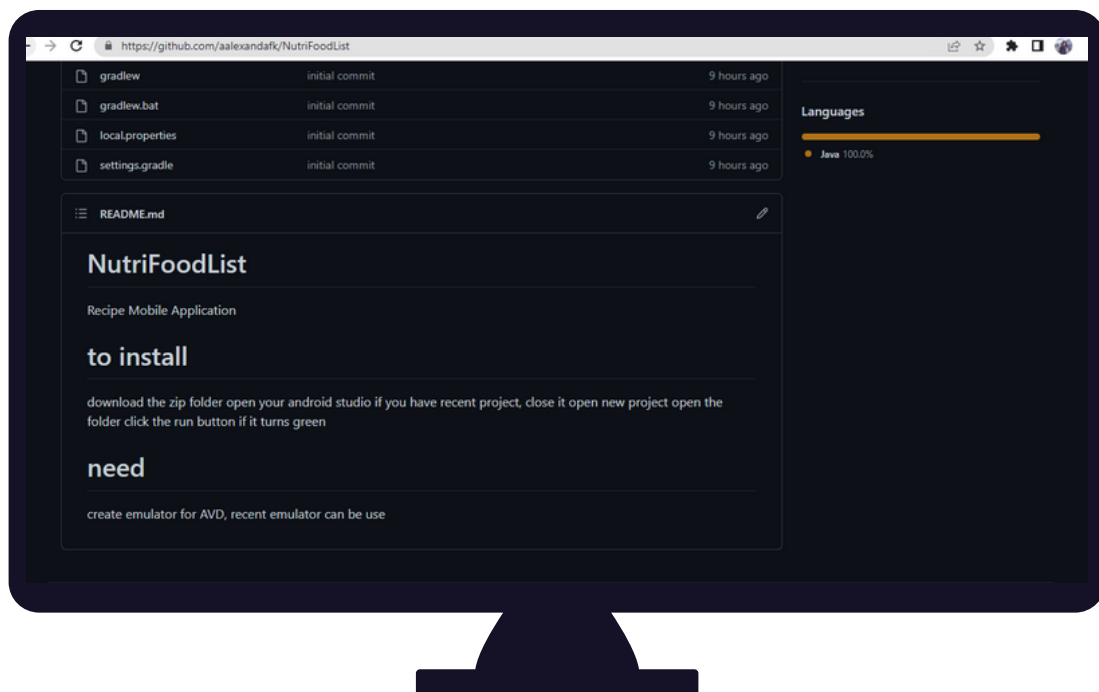
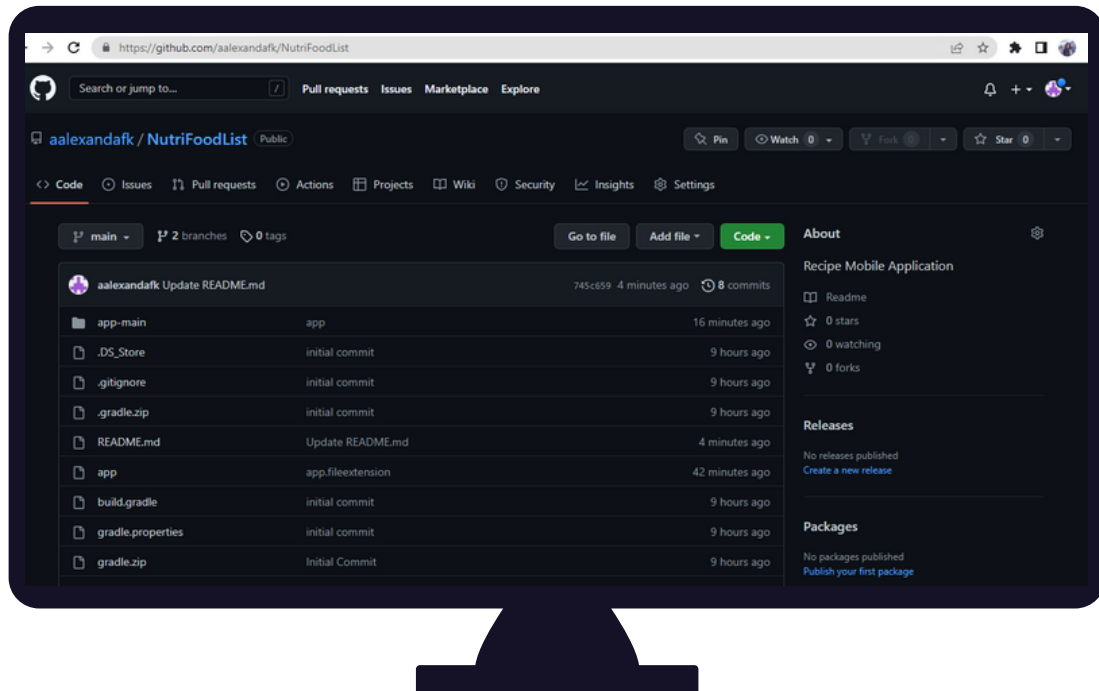


Figure 3
Sequence Diagram,

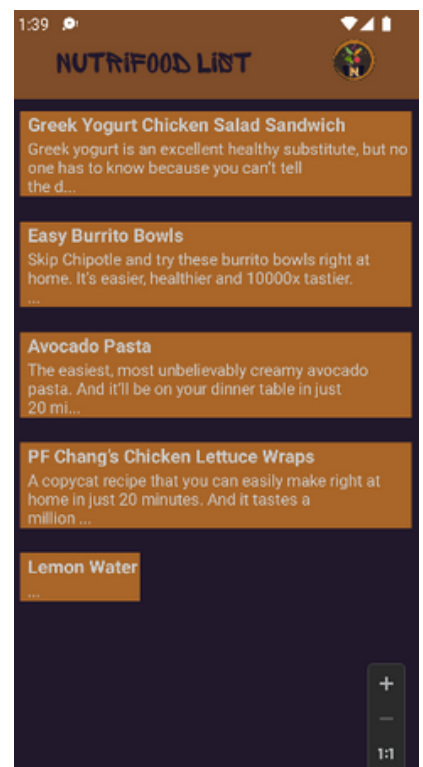
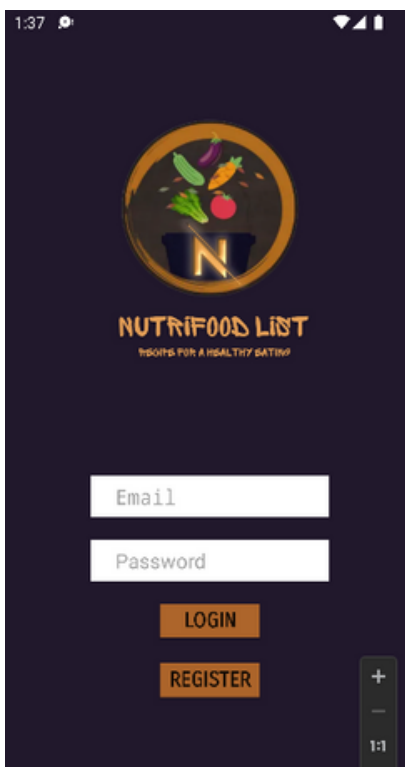
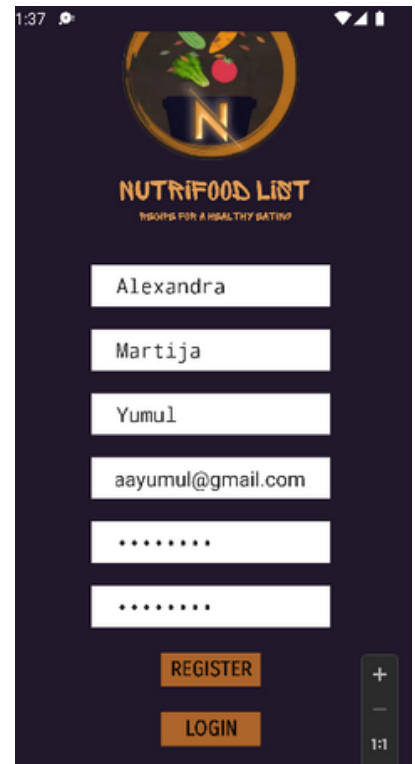
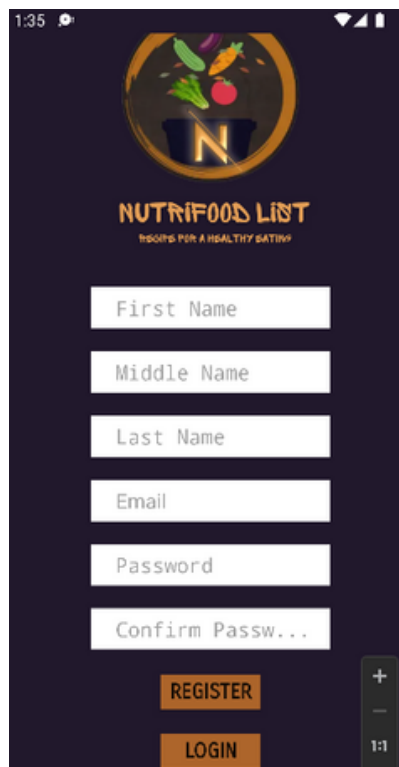
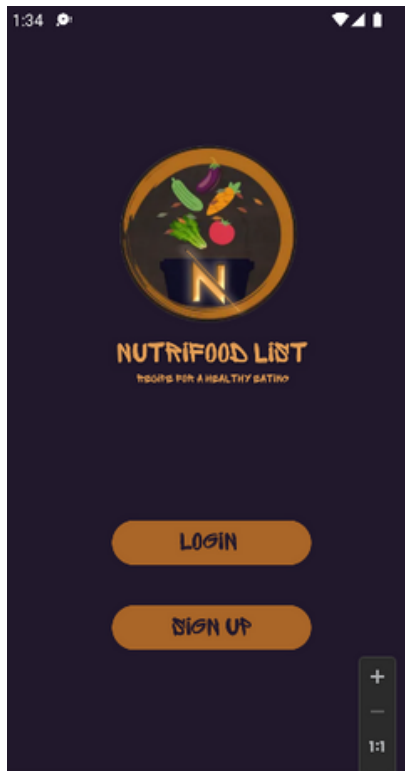
The diagrams above are presented by the proponents to demonstrate how users interact with the application. It demonstrates that the user must first register before they can log in. Once logged in, the user has access to the full functionality of the application, where they can search for recipes or simply tap each recipe category to see all the recipes that they can follow. It also has a feature where every recipe has nutrition facts that you can check to see if it has low calories and fats. Furthermore, the user can add and upload their own recipe, which will receive a push notice. Another feature is that the user can choose whether to follow the recipe via text or video.

GITLAB REPOSITORY

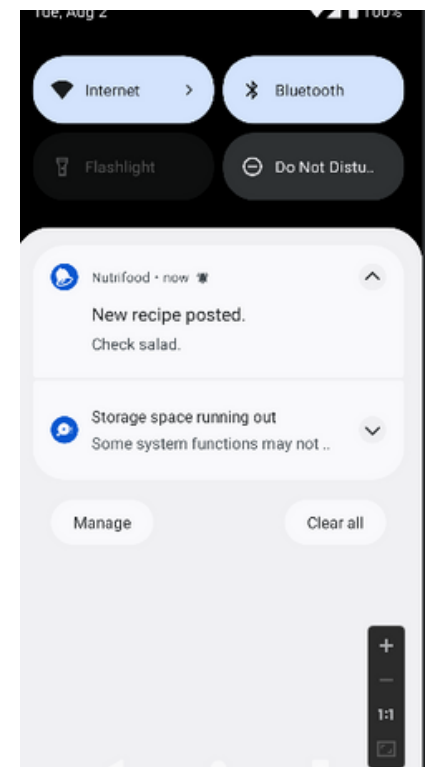
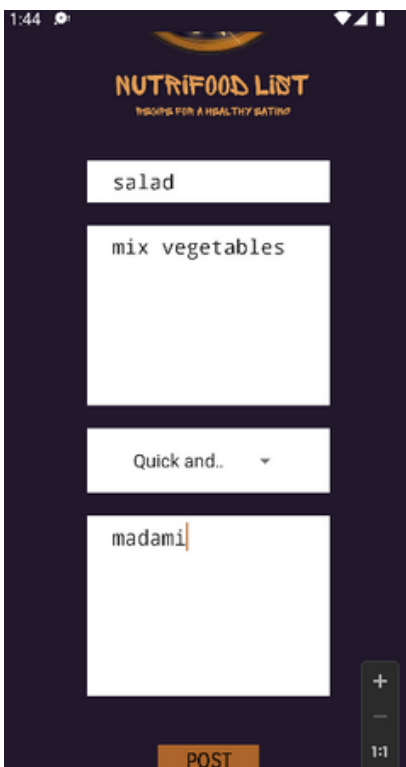
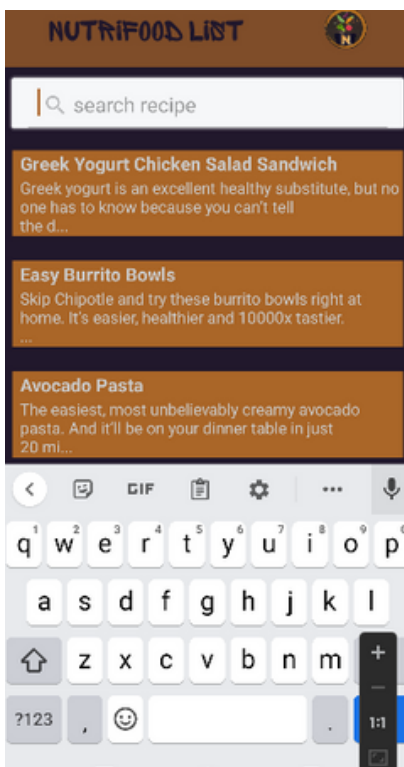
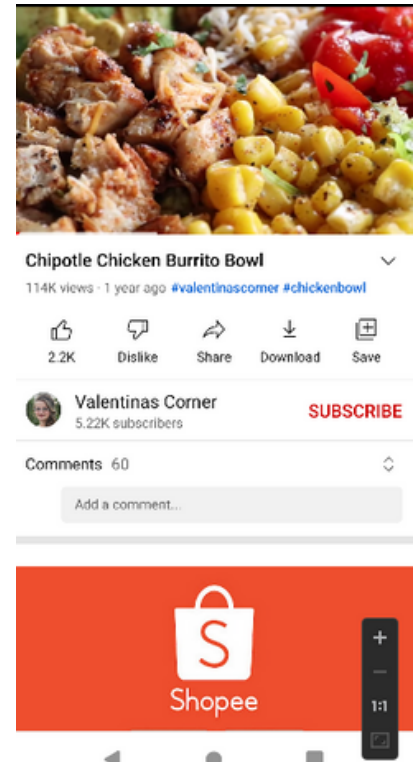
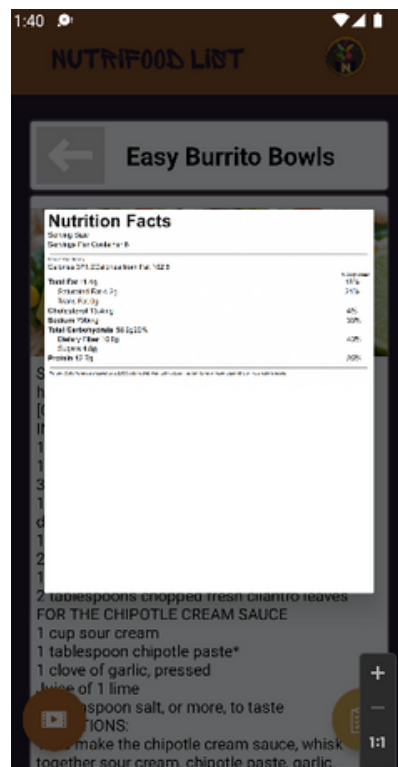
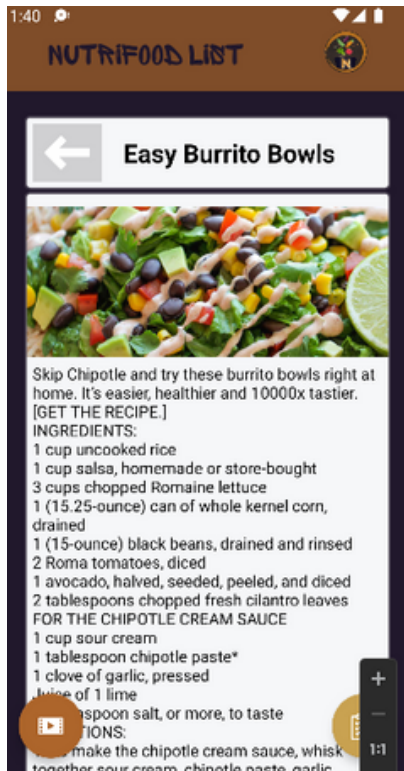
Link to repository: <https://github.com/aalexandafk/NutriFoodList>



APPLICATION SCREENSHOTS



APPLICATION SCREENSHOTS



MOBILE APPLICATION FEATURES

Login/Signup

This is where all users will start where they sign up for the application and then log in to access the application.

Search tool

Users can search in the mobile application what kind of nutritional food they are looking for.

Recipes

It shows the list and description of the available recipes of chosen food for the user's healthy meals and cooking.

Nutritional value button

If the user taps this button it will show the nutritional values of each meal and also shows how many calories are there.

Categories

Upon opening the application it shows recommended nutritional foods to choose.

Push Notification

The app notifies users if there is another recipe available.

Post/ Add Recipe

This feature allows the user to post or add the user own helpful healthy recipe.

Video

This feature allows the user to watch the process of making the food. The application gives the user options on whether they want to recreate the food if it is by watching the video or reading the recipe.

TEAM MEMBERS



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