**CS3354 Software Engineering**

**Final Project Deliverable 1**

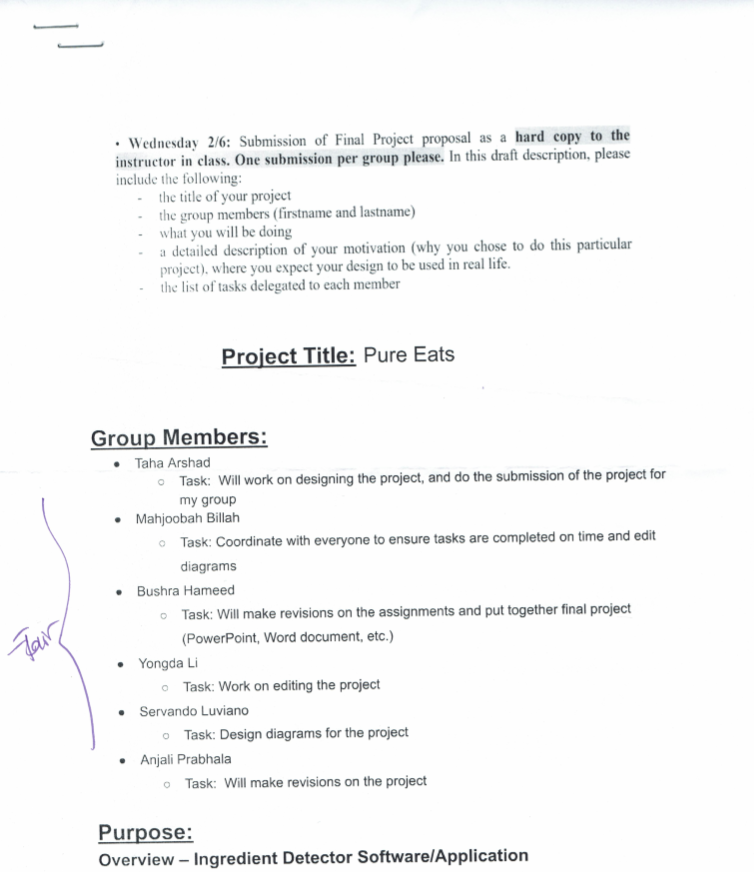
**Pure Eats**

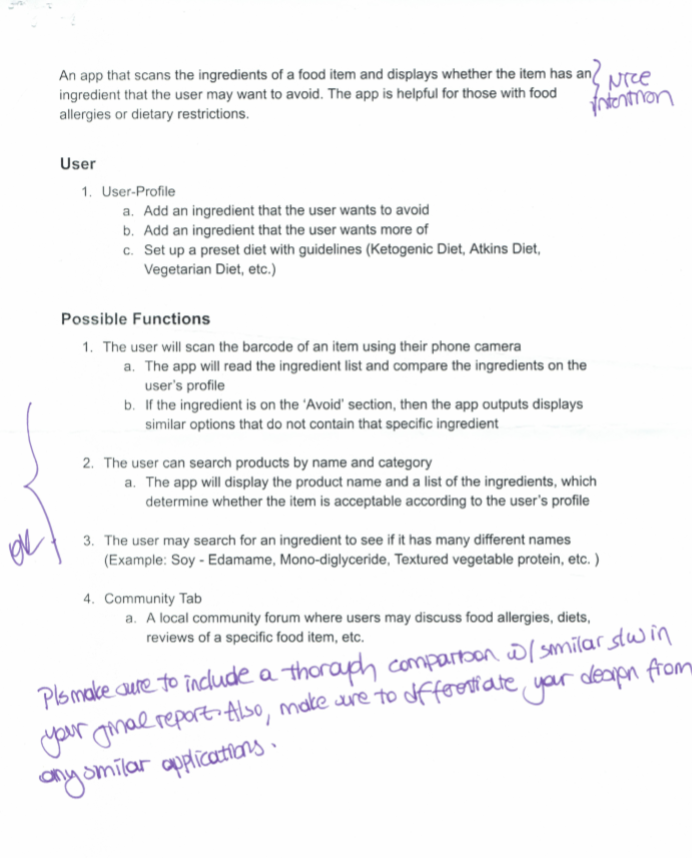
**By**

**Taha Arshad, Mahjoobah Billah, Bushra Hameed, Yongda Li, Anjali Prabhala, and Servando Luviano**

**GitHub**

https://github.com/ServandoL/CS3354-PureEats.git

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1. Address the feedback provided for your proposal by listing what you are doing to comply with the proposed changes/requests for additions to your project.  
     
   As mentioned in the feedback given to our group, we will discuss the differences between our application and any similar software on the market within our final report. A specific software application that we will be comparing our project to is the Scan Halal app. This application scans the barcode of a product and determines if there are any dietary restrictions applicable to that item. Our project enhances this idea as we widen our demographic for those with food allergies and other dietary restrictions including, but not limited to, kosher and veganism.
2. Delegation of tasks:
   1. Anjali Prabhala oversees addressing the feedback provided for our proposal and deciding which software process model is being employed in our project.
   2. Mahjoobah Billah oversees the lists of software engineering requirements.
   3. Taha Arshad will provide the use case diagram for our project.
   4. Yongda Li will provide the sequence diagram for each use case of our project.
   5. Bushra Hameed will provide the class diagram of our project.
   6. Servando Luviano will provide the architectural design of the project.
3. Which software process model is employed in the project and why?

The incremental software process model is employed within our project. This is because each phase can be referred to in order to update any changes made to the application. In addition, the cost is low and the process model is flexible to change. The incremental process model also promotes user involvement as well as maintainability with low risk involvement. Our application is created for users to be able to find alternative food items in the case that a specific product contains an ingredient that the user may be allergic to or may not be able to consume due to any dietary restrictions. The app is an interactive tool that requires flexibility related to change. For these reasons, we have decided to incorporate the incremental software process model.

Software Requirements:  
  
**Functional Requirements:**

* User will be able to scan the barcode of an item using a phone camera
* User will be able to search products by name and category
* User will be able to search for an ingredient to see if it has different names
* User will be able to create a user profile where user can:
  + add an ingredient that user wants to avoid
  + add an ingredient that user wants more of
  + set up a preset diet with guidelines

**Non-functional Requirements:**

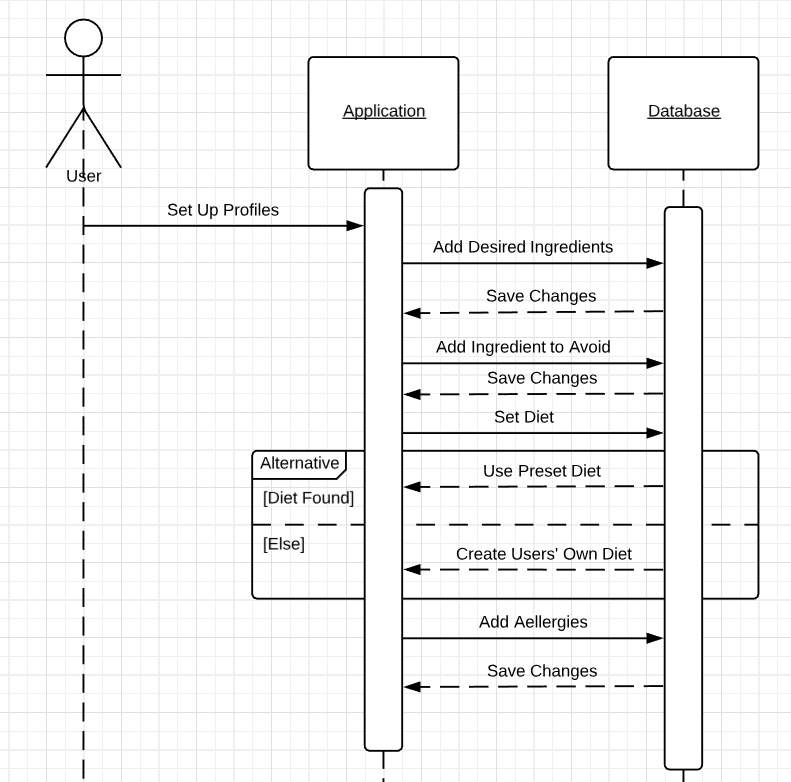
* **Product Requirements:**
  + **Usability requirements:** User must have: a working smartphone with a working camera and internet connection.
  + **Efficiency requirements:**
    - **Performance requirements (how fast the system must execute):** There should be no lagging
    - **Space requirements (how much memory it requires) :** About 50MB
  + **Dependability requirements:** The downtime shall not exceed 30 seconds
  + **Security requirements:** User will have a password to protect his or her personal information.
* **Organization requirements:**
  + **Environmental requirements (specify the operating environment of the system):** The system will be operated on a mobile app.
  + **Operational requirements (define how the system will be used):** The system will have the user login and set up their personal preferences for their diet. Then, when they need to use the app, they will go to the Scan Product area where the app will use their camera to scan the barcode of a product.
  + **Development requirements (specify the programming language):** The programming language will be Java
* **External requirements:**
  + **Regulatory requirements (set out what must be done for the system to be approved for use by a regulator):** Certain disclaimers will be disclosed such as: All information contained on the system, including nutrient information, ingredients, food allergens, and information relating to medical, religious, and health conditions is for informational purposes only and not provided as official medical, religious, and dietary advice. You should not use information on the services for the diagnosis or treatment of a health problem or diseases. You should always consult your healthcare provider before making any dietary or nutritional changes.
  + **Ethical requirements (ensure that the system will be acceptable to its users and the general public):**  The system will always stay up to date so that no information will be outdated.
  + **Legislative requirements  (ensure that the system operates within the law):** There will be a terms of service
    - **Accounting requirements:** All financial statements will adhere to GAAP (Generally Accepted Accounting Principles)
    - **Safety/security requirements:** Users’ personal information will be protected. There will be a privacy policy.

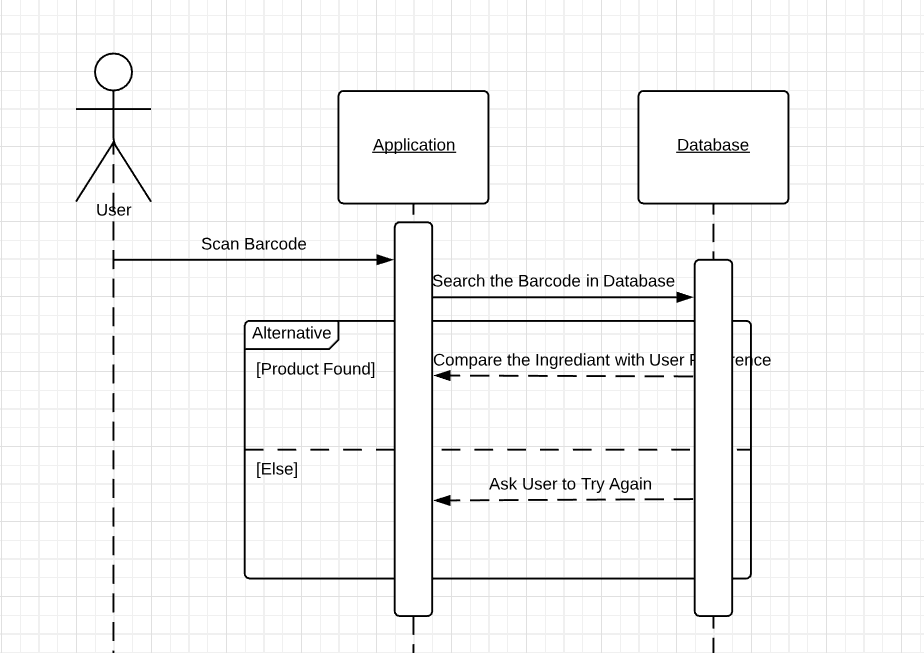
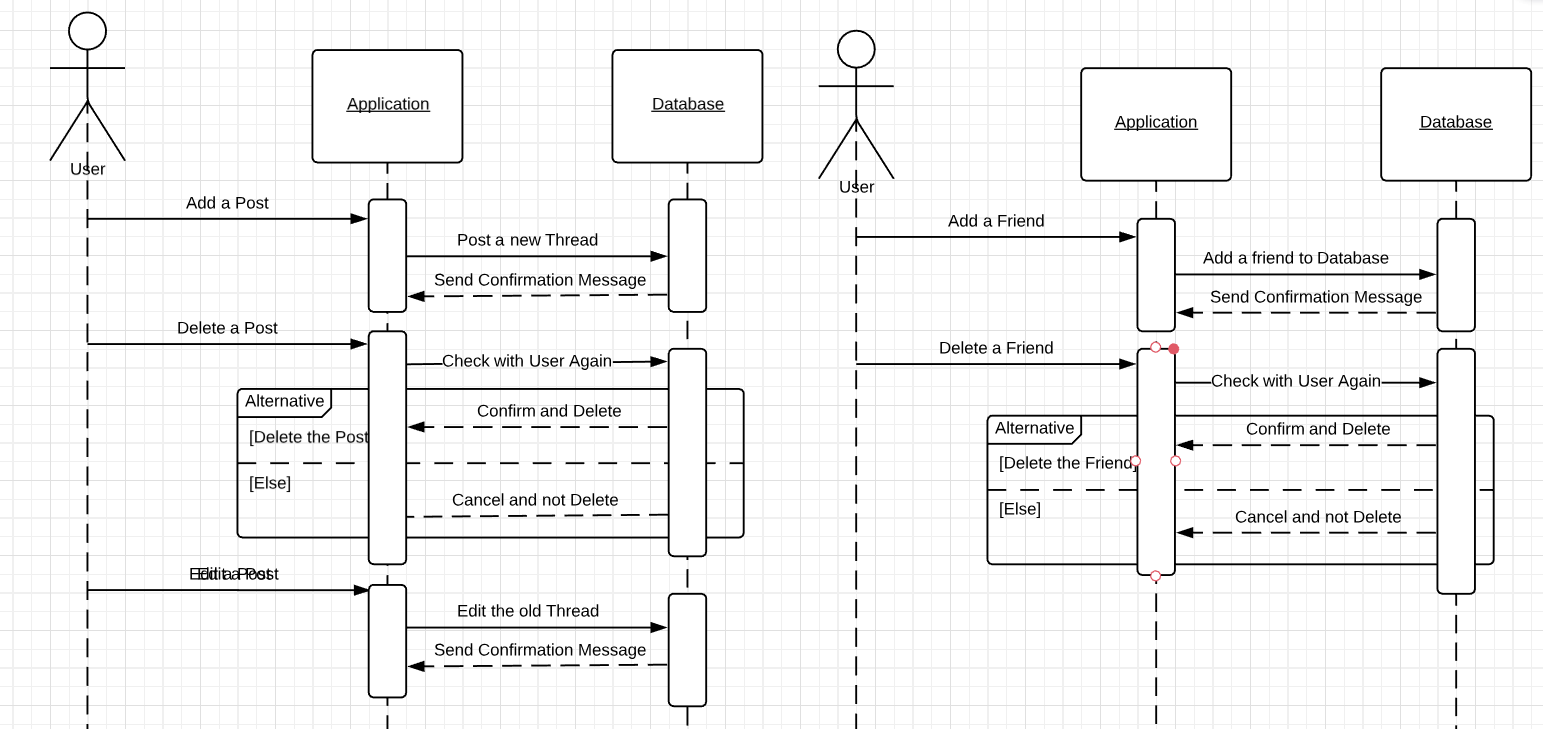
**Domain Requirements:**  
Entering the food allergies or dietary restrictions  
Entering the category of the food

# Use case diagram:

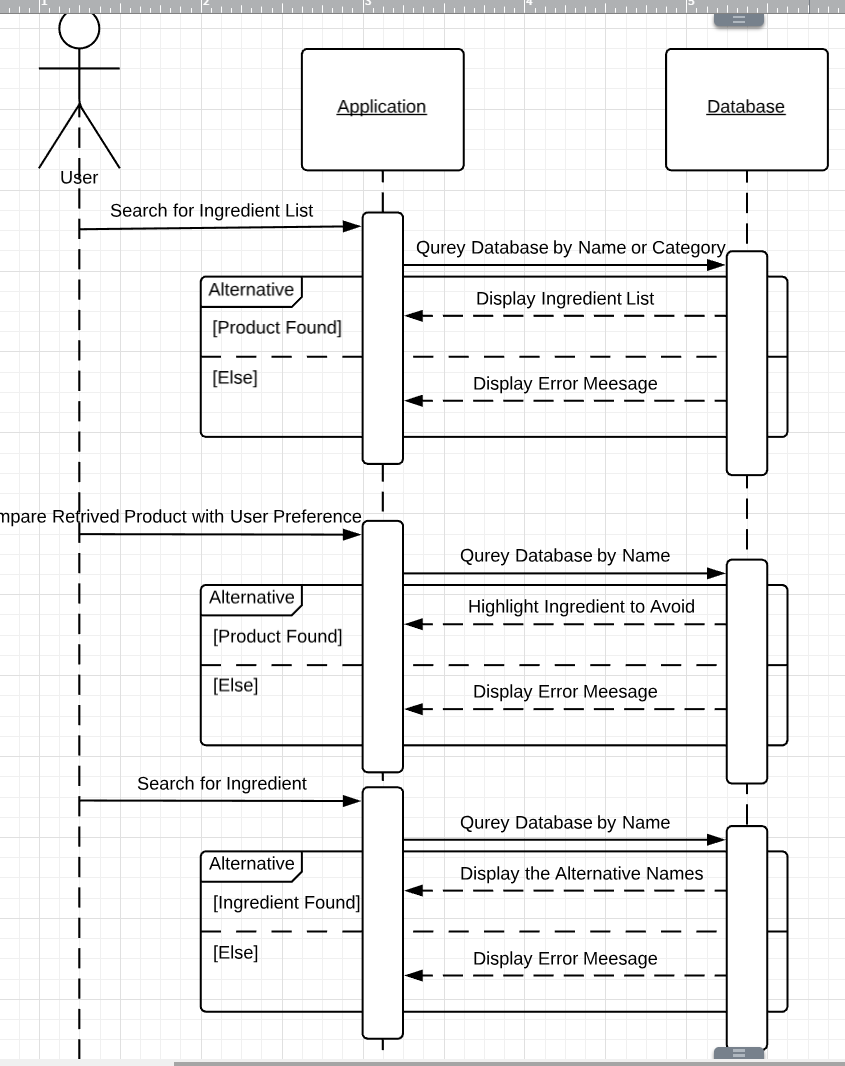
# Sequence diagram:

**PROFILE SETUP**

  
  
  
  
  
  
  
  
  
  
  
**CAMERA SCANNER**

  
  
**COMMUNITY TAB**

**SEARCH**



# Class diagram:

# Architectural design:

