

REQUIREMENTS ANALYSIS

Group 4348

App Name: Foodle

1. Introduction:

The purpose of this document is to outline the requirements of the development of Foodle – an environmentally sustainable student focused recipe website. Foodle aims to connect students within Exeter university accommodations to sustainable recipes to avoid the negative environmental externalities associated with food consumption, food waste, and inefficient cooking practices.

2. Functional Requirements:

Users:

- Student user registration and profile management including:
 - Create account.
 - Delete account.
 - View Foodle game score (and associated rank).
 - View Environmental score (and associated rank).
- Student user can play the Foodle word guessing game.
- Student user accommodation kitchen group membership management including:
 - Ability to join a group through a QR code in accommodation kitchen.
 - Ability to leave group.
- Recipe functionality including:
 - Create a new recipe.
 - Browse/search through all recipes on Foodle.
 - View individual recipe.
- Meal Event functionality including:
 - Create a Meal Event for your group/self.
 - View Meal Events for your group/self.

Admins:

- Accommodation kitchen groups management including:
 - Create group with a given name.
 - Generate a QR code for a group (which can be used by student users to join group)
- Student user management:
 - Delete user.
- Recipe management:
 - Create a new recipe.
 - Browse/search through all recipes on Foodle.
 - View individual recipe.
 - Delete Recipe

- Admin user management:
 - Create a new admin user.

3. Non-Functional Requirements

Sustainability: The platform must promote environmentally sustainable consumption habits.

Geo-Locality: The platform must be based around physical locations on campus.

Security: The platform must have robust security to protect user data.

Performance: The platform will be accessed by mobile devices so must be fast and responsive.

Ease of Use: The platform must be intuitive and simple to use; complexity risks scaring away users.

4. Constraints

Timeline: The project has a short timeline. This necessitates efficient project management, a clear prioritisation of needs, and timely delivery of implemented features.

Limited user base: Student users must be within Exeter accommodations , which restricts userbase (and test-base), while increasing reliance on Exeter accommodation leaders.

Regulatory Compliance: The platform must comply with relevant regulations and standards, including data protection laws.

5. Assumptions

- Exeter accommodations all contain sufficient kitchen appliances (ovens, fridges, stoves etc.) for students to effectively use Foodle platform.
- Exeter university accommodation leaders would be willing to manage kitchen groups (i.e. create groups and distribute QR codes to kitchens within accommodation).
- Student users have access to internet-enabled smartphones to access Foodle platform.
Student users within Exeter university accommodations are located close enough to grocery stores to effectively use Foodle platform.