

SE 216 – SOFTWARE PROJECT MANAGEMENT
REQUIREMENTS DOCUMENT

PROJECT NAME: FOOD BRIDGE

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REQ. #	FUNCTIONAL REQUIREMENTS
1	Both users (donor users and recipient users) must register and log in to the application using their name, surname, ID number, e-mail, phone number. Users must log in securely using the correct credentials to access the app's features.
2	When users want to donate food through the application, they must initiate this process in an uncomplicated manner via the application interface. They should be able to choose the food items they will donate and specify the amount of food.
3	Donor users should be able to list extra or expiring food items on the platform, specifying details such as quantity, expiry date, and pickup location.
4	While using the application, users should be able to see the food currently available on the food storage facilities they need, its quantity, content and expiration date. Users should also be able to see the times when the food in that storage is ready for ordering, delivery or gathering.
5	Food storage facilities should list all different types of food they have in their facilities with frequent updates to their amount and availability in the application. The application should also make announcements for the urgency of need for certain foods.
6	The application should send notifications to users about new foods added to food stores in line with users' needs and preferences.
7	Users should see the location of the food storage closest to them through a mapping system. They should also have access to the phone number and service hours of the food storage they want to reach.
8	Users should be able to rate and comment on the quality of the food and service they receive in a clear section visible to everyone using the application. They should be able to evaluate the food storage facilities, employees and delivery they receive service from.
9	Administrators should have access to reports and analytics to monitor platform, platform usage, donation trends and user satisfaction.
10	Pick up and delivery affairs should be able to be discussed between donors, recipients and workpeoples via a communication system that is implemented.
11	Users must have access to information approved by food authorities on the safety of food.

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12	To prevent misuse of the application, the eligibility of individuals/families to benefit from food donations must be assessed according to specific laws. Additionally, the need of individuals/families should be determined, and the amount of donation should be calculated accordingly, and provided based on this calculation.
13	A customer service can be implemented so users can write about their problems live to a customer support personnel.
REQ. #	NON-FUNCTIONAL REQUIREMENTS
1	The application must be protected from unauthorized access to protect users' information. Encryption should be used to protect data between the application and servers. Authentication must be done to protect against people who want to abuse the application.
2	The application interface should be easily understandable by every age people. The design should be simple and the interface should be user-friendly.
3	The FoodBridge app is expected to reach to a very large number of users so the application should be able to handle a large volume of users data and food donations without experiencing performance issues.
4	The system should have minimal downtime and data loss, ensuring continuous availability of food donation services. Regular backups and failover mechanisms should be in place to mitigate potential failures.
5	The application must keep people's information strictly confidential. Donor and donation recipient information should not be shared with any party or third parties. The application must be based on personal data protection law.
6	The application should be updated and improved periodically based on user feedback and new technologies. Database updates, remediation of security vulnerabilities, server optimizations, etc.
7	The application should be able to respond quickly to user and staff responses, and quickly update and report food entry-exit information.
8	For users who are new to using the application, information and commands on how to use the application should be provided at the first login.
9	The application should be translated into many common languages (English, German, Chinese, etc.) and be able to generate voice commands for people who do not have reading skills.
10	The application should be accessible from desktops, laptops, tablets, and phones. It should be able to run on different operating systems like Windows, macOS, and iOS. Access should be possible from various web browsers such as Google Chrome, Safari, and Firefox. It should be able to adapt to different screen resolutions.