



## Cover page

Project title: .....Smart Fridge..... Academic Ye...2024-2025.....

Group Members: .....Saba Shoqo..... Department Name:

.....Faiha'a Odeh.....

.....

.....

**Project Type**      **Software**

Supervisor Name: .....Dr.shareef Yaseen.....

### Format:

- Single space, Times New Roman.
- 12 pt,
- Maximum 1 page.

### Abstract Body:

#### Items must be provided in the Abstract:

- Why do you think this project is important? Please explain the significance of this Project in brief.
- In your point of view what are the important aspects that should be covered in the project?
- Objective(s): In your view, please explain the main objectives of the project.
- Methodology: Give a brief outline of the application development process.
- Had this project been done before? Are there any similar applications available today?
- 
- **Note:** Please deliver this abstract early to ensure that your Project has been approved by the department's projects committee. **Registration will not be done without this approval.**



**Project's Abstract:** This project aims to develop an innovative mobile application that enhances the management of food inventory and minimizes food waste in households. The importance of this project lies in its potential to simplify daily kitchen activities by helping users track items in their fridge, suggest recipes based on available ingredients, and notify users of approaching expiration dates. In addition to promoting smarter food usage, the application could contribute to reducing food wastage, which is both an economic and environmental concern.

**Key Aspects:** The project focuses on essential functionalities such as manually tracking fridge items, generating recipes based on available ingredients, providing expiration alerts, and creating a smart shopping list. Additionally, the app will offer nutritional analysis of meals and low stock notifications.

**Objectives:**

- To help users manage their food inventory more effectively by tracking expiration dates and sending timely alerts.
- To reduce food wastage by suggesting relevant recipes based on available ingredients.
- To simplify grocery shopping by generating automatic shopping lists based on inventory data.
- To provide users with nutritional information about their meals.

**Methodology:** The project will follow a structured application development process, starting with requirements gathering, user interface design, and backend development for item tracking, recipe suggestions, and alert notifications. Integration with databases for ingredient management and expiration tracking will also be included, followed by rigorous testing to ensure functionality and usability.

**Existing Solutions:** Although there are similar food management applications available, this project seeks to differentiate itself by offering personalized recipe suggestions based on the time of day, a more robust nutritional analysis, and automatic shopping list creation. While existing apps focus on one or two features, this app aims to provide a comprehensive food management experience.

