



UNIVERSITI MALAYSIA TERENGGANU

Faculty of Computer Science and Mathematics

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Project Specification Document

Food Recommendation System

(Web-Based Development – CSE3023)

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1 Project Overview

This project proposes the development of a web-based **Food Recommendation System** within the ads and marketing industry domain. The aim is to help users make smarter food choices by providing personalized recommendations based on preferences, allergies, health goals, and medical conditions. The system provides targeted suggestions and feedback mechanisms through ratings and reviews. It also enables businesses to market food options more intelligently.

2 Scope

Inclusions:

- User/Admin registration and login system
- Admin modules for food management, ingredients, facts
- Personalized food recommendation view
- User ratings and reviews
- Ingredient warnings (e.g., gout, pregnancy)

Exclusions:

- Payment systems or transactions
- Native mobile application
- Third-party API integration

3 Requirements

3.1 Functional Requirements

- User and Admin login/register
- Admin can CRUD food, ingredients, reviews
- Users can view and review food
- Recommendations based on health profile

3.2 Non-Functional Requirements

- Responsive web-based interface (desktop)
- 30-minute session timeout
- Secure password handling
- System should load within 3 seconds

4 Timeline

Milestone	Deadline
Proposal Submission	Week 4
Wireframes and Frontend Design	Week 5–6
User Module + Login/Register	Week 7–8
Admin + Ingredient CRUD + Food CRUD	Week 9–10
Review + Recommendation Features	Week 11
Testing, Debugging	Week 12
Final Report	Week 13
Presentation	Week 14

5 Budget

- Web Hosting: Free (localhost via Apache Tomcat)
- Database: MySQL (Free via XAMPP/phpMyAdmin)
- IDE: NetBeans (Free)
- Domain Name: Not required
- Total Estimated Cost: **RM 0.00**

6 Stakeholders

- **Supervisor:** Assoc. Prof. Ts. Dr. Wan Nural Jawahir Hj Wan Yussof
- **End Users:** Users looking for food suggestions based on health needs
- **Team Members:**
 - Nurul Syamimi Binti Kamaruddin — User Login/Register
 - Muhammad Sharmin Aiman Bin Jafri — Admin Food CRUD
 - Wan Muhammad Zakwan Al-Hakim Bin Wan Mohd Azman — Ratings/Facts
 - Nur Ainin Sofia Binti Suhaimi — Ingredients/Health Advice

7 Risks and Assumptions

Risks:

- Delayed task completion by team members
- Database connection/configuration issues
- Limited frontend experience causing UI delays

Assumptions:

- Users have basic tech literacy
- All team members complete assigned modules
- PHPMyAdmin and Tomcat run properly on local machines