SOFTWARE REQUIREMENTS SPECIFICATION

Snack Sharing App

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1. Introduction

The snack sharing app aims to provide a platform for users to share and discover snacks. The application will be developed with Java as the backend technology. This document outlines the functional and non-functional requirements of the snack sharing app.

1.1 Purpose

The purpose of the snack sharing app is to provide a convenient platform tailored specifically to the needs of hostelers.

1.2 Intended Audience

Targeted users are hostelers, especially who are restricted with no outing.

1.3 Scope

The snack sharing app will allow users to:

- Create an account and login securely.
- Browse, search, and discover snack recipes shared by other users.
- Upload, share, and manage their own snack recipes.
- Receive notifications for activities related to their recipes or interactions.

1.4 Glossary

- **User:** An individual registered with the Snack Sharing App.
- **Notification:** A message or alert sent to a user to inform them about a specific event or activity.

2.Overall Description

2.1 System overview:

The system overview section provides a high-level description of the Snack Sharing App, outlining its core components, functionality, and interaction with users. This overview sets the context for the detailed discussions on system requirements, design, and implementation.

2.2 System features:

- Snack category - Homemade, fruits, sweets ,spicy etc should be available.
- Snacks should be available at all times.
- Good quality snacks should be available at an affordable price.
- Preferred snacks
- Timely notifications
- Organized snack list

3. Functional Requirements

User Registration : Users should be registered with user name, password.

Authentication : After registration , users should enter those details to login into the app.

Profile Management : Should give the option to change their password. Should give the option to edit postings, Option to logout.

Notifications :

- Should give the option to request their prefered snack to buy.

-Users who shared snacks should recieve notifications if anyone requests their shared snack with the accept or deny option.

-Users who want to buy a snack should have details of requested snacks in notifications with status of snack such as or accepted / not by a shared person.

-When a posted person accepts the request then who requested it gets status accepted.

Snack Listings :

Home interface should contain various snack type icons . If a particular snack type has data then the icon should blink. Whenever a user selects a particular icon they should get a list of snacks of a particular type. Snack items should display with photo,name, quantity, price, description etc.

Filters :

To get specified snacks should contain various filter like price based, snack type base, floor based..etc

Search :

Should contain an option to browse to see particular snacks.

3. Software Requirements

- Html
- Css
- JavaScript
- ThymeLeaf
- Java
- Spring
- MySql

4. Hardware Requirements

- **RAM :** 8gb or more
- **CPU :** Multicore processor (intel i5 or higher , AMD ryzen)
- **IDE :** Android Studio

5. Testing Requirements

5.1 Functional Testing :

- **User Registration / Login :** Ensure users can register, login and logout successfully.
- **Snack Listing :** Verify that users can list snacks they have available for sharing.
- **Profile Management :** Test profile editing functionalities.
- **Search Functionality:** Test the search feature to find snacks based on different criteria (e.g., name, category).
- **Requesting Snacks :** Ensure users can request snacks from other users.
- **Notifications :** Verify that users receive notifications for new requests, snack accepted status etc.
- **Filters :** Ensure that the filters functionality is working properly.

5.2 Usability Testing :

- Ensure the app is intuitive and easy to navigate.
- Verify that the interface is user-friendly on different devices and screen sizes.

5.3 Compatibility Testing :

- Check compatibility with different devices and screen sizes.

5.4 Performance Testing :

- Test the app's performance under different network conditions (3G, 4G, Wi-Fi).

6.References

- Existing Food Sharing Apps