**SOFTWARE REQUIREMENTS SPECIFICATIONS (SRS)**

**FOR**

**PROUDFOODIE (ONLINE FOOD WEBSITE)**

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## 1.1PURPOSE

## Defining and describing the functions and specifications of the ProudFoodie (Online Food Website) is the primary goal of this Software Requirements Specification (SRS). This Software Requirements Specification describes the uses and required functionalities provided by the application.

## The basic terminologies used here in this document are defined in the section of acronyms with the purpose of avoiding misconceptions & ambiguity. This document is useful to developers, testers, UI designers and product owner for referencing the functionalities throughout the development of the web application.

## 1.2SCOPE

## ProudFoodie (Online Food Website) will allow any user to create an account to become a customer. The application will allow users to browse, search, select, and add food items to a cart. Then, after selecting food items in their cart, they can pay for the order items as per the order details. The above specified web application also allows an admin to manage the stock with full create, retrieve, update and delete (CRUD) functionality.

## The application can by deployed by the owner provided with the specified requirements of server, virtual space & database versions. Also, it can be accessed by the normal users simply with the help of an updated Google Chrome Browser.

## 1.3DEFINITIONS / ACRONYMS / ABBREVIATIONS

Fashion 24 x 7 (Online Clothes Shopping Website) involves following abbreviations:-

|  |  |  |
| --- | --- | --- |
| Sr. No. | Abbreviation | Definition |
|  | | |
| 1 | SRS | Software Requirement Specification |
| 2 | CRUD | Create Read Update Delete |
| 3 | POJO | Plain Old Java Object |
| 4 | DB | Database |
| 5 | MYSQL | My Structured Query Language |
| 6 | E-R | Entity Relationship |

## REQUIREMENTS

### 2.1. FUNCTIONAL REQUIREMENTS

ProudFoodie (Online Food Website) will provide the following functionalities:-

* List Of Functions :-

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Function ID** | **Name Of The Function** |
|  | | |
| 1 | F - 01 | Menu of Food Items |
| 2 | F - 02 | User’s Records |
| 3 | F - 03 | Discounts |
| 4 | F - 04 | Log In – Log Out |
| 5 | F - 05 | Food Cart |
| 6 | F - 06 | Sorting Criteria |
| 7 | F – 07 | Reviews & Ratings |
| 8 | F - 08 | Admin Role |
| 9 | F - 09 | Checkout |
| 10 | F - 10 | Account Recovery |
| 11 | F - 11 | Concurrency ( Multi Threading ) |
|  | | |

* Functional Description :-
  + 1. Function ID : F – 01
    2. Purposes : i. To maintain data associated with the inventory,

: ii. A food item has a title, brand name, size,

quantities, availability, category,

description, price etc.

: iii. The inventory also keeps track of the

stock / quantity of each food item.

* + 1. Entities Involved : FoodItem ( POJO )
    2. Organizational Unit :
    3. Frequency of Use : High
    4. Function ID : F – 02

a. Purposes : i. To maintain records for many users,

: ii. An user can be either a member or non-

member,

: iii. An user has a username (unique across all

users), email address, password (with proper

validations), and address (including detailed

address, city, pin code, country etc.) , contact

number etc.

: iv. Anyone may sign up for a customer account.

b. Entities Involved : User (POJO)

c. Organizational Unit :

d. Frequency of Use : High

* + 1. Function ID : F – 03

a. Purposes : i. To show a listing of discounted food items,

: ii. All the food items are to be displayed in

proper order by title.

: iii. Each food item will list the following – Title /

Brand / Price / Availability

b. Entities Involved : FoodItem (POJO)

c. Organizational Unit :

d. Frequency of Use : High

* + 1. Function ID : F – 04

a. Purposes : i. To allow users and managers to log in and out of

the system,

: ii. Users (Including both user and the manager)

will be logged out if inactive for 30 minutes.

b. Entities Involved : User, Manager (POJOs)

c. Organizational Unit :

d. Frequency of Use : High

* + 1. Function ID : F – 05

a. Purposes : i. Any registered user is able to add one or more

food items to the food cart,

: ii. The food cart does not need to allow multiple

copies of any food item.

b. Entities Involved : Cart, Cart-item (POJOs)

c. Organizational Unit :

d. Frequency of Use : Medium

* + 1. Function ID : F – 06

a. Purposes : i. The website must provide consistent sorting

options including following criteria - Sort By Price /

View New Products / Sort By Discounts / Sort By Category

b. Entities Involved : FoodItem, Category (POJOs)

c. Organizational Unit :

d. Frequency of Use : Medium

* + 1. Function ID : F – 07

a. Purposes : i. This web application must give options to all the

registered users to give reviews & ratings for

all the food items.

b. Entities Involved : Feedback (POJO)

c. Organizational Unit :

d. Frequency of Use : Medium

* + 1. Function ID : F – 08

a. Purposes : i. Registered Manager should be able to view and

add new food items,

: ii. Also, they should be able to view and update

user’s details.

b. Entities Involved : Manager (POJO)

c. Organizational Unit :

d. Frequency of Use : High

* + 1. Function ID : F – 09

a. Purposes : i. Checkout is only available to logged-in users

/ managers,

: ii. When a user enters incorrect credentials, will be

given a chance to log in.

b. Entities Involved : User, Manager (POJOs)

c. Organizational Unit :

d. Frequency of Use : Medium

* + 1. Function ID : F – 10

a. Purposes : i. This online website should give facility to recover

account in case of ‘ Forgot Password Scenario ’.

b. Entities Involved : User, Manager (POJOs)

c. Organizational Unit :

d. Frequency of Use : Low

* + 1. Function ID : F – 11

a. Purposes : i. The online food system would need to

be highly concurrent. There will be multiple

ordering requests for food items at particular

point in time. The service should handle

this type of load gracefully and fairly.

b. Entities Involved : - - -

c. Organizational Unit :

d. Frequency of Use : - - -

### 2.2. NON - FUNCTIONAL REQUIREMENTS

ProudFoodie (Online Food Website) will provide the following non – functional requirements:-

* + 1. **Interface :-**

~ ProudFoodie (Online Food Website) must provide user

interactive interface in order to attract more users.

~ The application should use best available attractive colour shade

combinations.

### Performance:-

~ Number of Concurrent Users: - The application must handle maximum

number of requests.

### Security:-

~ The Online Food Website must provide maximum level of

security regarding data.

~ The data of the users, product details, valuable feedbacks, login credentials

must be protected in order to maintain high customer satisfaction.

~ The application must provide separation via Authorization &

Authentication.

### Availability:-

~ ProudFoodie (Online Food Website) must be available 24 X

7 i.e. throughout the day & night, so that users can enjoy shopping all the

time.

### Reliability:-

~ The specified application must be reliable, especially at the time of

weekend, festival days, year endings etc.

~ The application must be reliable in the perspective of login / payment

failures also.

### Safety:-

~ The online application must be saved against session fixations / SQL

injection etc. malicious attacks.

~ The whole software must use firewall configurations in order to safeguard

the application.

### Maintainability:-

~ ProudFoodie (Online Food Website) should be able to maintain with as less efforts & changes as possible.

### Portability:-

~ The specified application must provide portability in order to change

components of architecture in case of emergencies.

~ It should hazel – free facility to replace the databases to enhance the

efficiency in needed in future. Like replacement from MYSQL to Oracle or

MYSQL to MongoDB.

### Accessibility:-

~ The online website must be accessible via desktops, laptops, smart devices

including mobile phones, tablets etc.

~ The UI – UX must not hamper in case of above options. It should remain

uniform throughout all the devices.

### Durability:-

~ The overall application should be durable, especially in the terms of data, product availability, and uniform performance over time.

### Other Requirements:-

* **Hardware: -** The application is expected to function on Dell G3 – 15 with 1100 MHz Pre Processor Equivalent Or Above, 4 GB RAM, 512 GB HDD.

### Software: - ProudFoodie (Online Food Website) shall work on Microsoft Windows operating systems family (MS Windows XP & Above). It configures to work with MYSQL database. This System works on Apache Tomcat server. It uses browser Google Chrome Browser.

## 3. REFERENCES FOR REQUIREMENT ANALYSIS & DESIGN

Following references are considered throughout the development of ProudFoodie (Online Food Website) :-

* + Google for problem solving
  + https:/[/www.tutorialspoint.com/java](http://www.tutorialspoint.com/java/)/
  + <http://www.javatpoint.com/java-tutorial>
  + https://docs.oracle.com/javase/tutorial/
  + Effective Java By Joshua Bloch
  + <http://www.tutorialspoint.com/mysql/>