SOFTWARE REQUIREMENTS SPECIFICATION

Kitchen Delight

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VCE APPLIED COMPUTING
SCHOOL ASSESSED TASK
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Contents

1. Introduction

The intended audience of this Software Requirements Specification (SRS) are the designers and developers of the software.

The purpose of this SRS is to inform the designers of this software of the client's srequirements.

i. **Purpose**

The purpose of creating the commercial website *Kitchen Delight* is to advertise and market for a business selling homemade food, to try to expand the business.
The website is to contain the menu which will provide customers with the ability to view the menu of the business and browse pictures of the food and add their favourite items to their Wishlist.

This website will also be used as a communication tool between the business and its customers by allowing them to share their opinions through comments and ratings, as well as being able to send messages to the business directly.

A website is required because it is professional and allows the owner (my client) to assess whether their business has a chance of success. The owner prefers to have a website instead of using social media or apps like *Zomato* because a website allows the users to search for their favourite items and make a list of them.

ii. **Scope**

This website is **only** being designed as a way of advertising as well as a tool for communication.
It does **NOT** process payments (no sales done online)
It does **NOT** advertise for other businesses

iii. **Overview**

The following sections will include in detail the following:

- An overall description that has all the requirements (functional and non-functional); and
- User classes and characteristics
- External interface requirements
- System features

2. The Overall Description

i. **Product Perspective**

Kitchen Delight is a business that sells homemade food and which has no restaurant or shop to sell the food in. The owner has decided that a website is needed to advertising for her business and to try and target customers in Melbourne, particularly in the City of Manningham.

The business is not targeting a specific culture, and considering that the City of Manningham includes many people who come from different backgrounds, mainly Australian, the website should not reflect a certain culture. The owner is trying to target people from different cultures although the food they are selling is mainly Arabian.

The business is not targeting a specific age group but is rather trying to attract all possible age groups, including children, teenagers and the older generation. This means that the website should be user-friendly and usable by different age groups, meaning complicated words, phrases or icons are not required.

The website should be usable by various age groups who do not necessarily have excellent technical skills or high educational levels, considering that some of them are likely to be young or quite old.
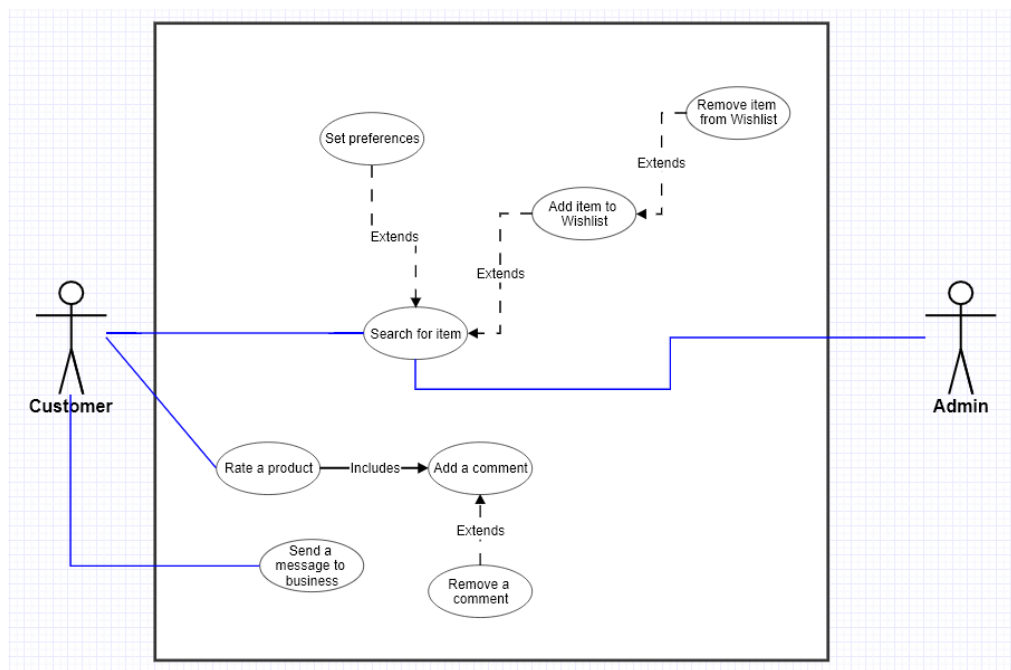
The client has requested that the colour red should be used.

ii. Product Functions

The software should:

- Allow the user to add and remove items to and from Wishlist
- Allow the user to write a review for a product (consists of ratings **and** comment)
- Allow the user to contact the business
- Allow the user and the admin to search for a product, including being able to filter their options
- Allow the user to sign up or sign in to their account, and allow the admin to sign in.

Below is a Use Case Diagram for the Kitchen Delight software project:

iii. User Characteristics

Customers – They can use moderate website functions such as searching for products, filtering options and writing reviews, but no other technical expertise should be assumed.
Customers come from different cultural backgrounds and age groups.

Admin – They have high technical skills and can write, edit and maintain written code. They also have the ability to administer the website such as adding a new product to the website.

iv. Operating Environment

Cross-Browser, including Microsoft Edge, Chrome and Safari

Basic phone/computer hardware or better.

v. Design/Implementation constraints

1. Financial
   - No money will be paid for the creation of the website. It will be designed for free.

2. Legal
   - The website will need to comply with the Australian privacy laws and copywrite act.

3. Accessibility
   - The website should be easily used and navigated by people with low technical expertise.
   - The website main colours should be easily visible to colour blind people, but the client's wish is to use the colour red as the main colour, thus we are required to work around it.
   - Light colours should not be shown on top of a light background (same with dark colours)

- No very bright colours should be used

4. Technical
   - The website should run on Chrome 90.0.4430 (or the equivalent of Microsoft Edge, Safari, Internet explorer) or better.

5. Usability
   - The website should include icons, a navigation bar and self-explanatory functions to help users to use the website, as no user guide is available.
   - The website should provide users with the ability to add their favourite items to their 'Wishlist' to easily view their favourite items.

6. Scalability
   - The website should include a 'contact us' function to allow users to share their opinions with the business on how to improve the website to be more accessible. (as well as being able to contact the business for enquiries, which is the main role of this function)

7. Reliability
   - The homepage should load within 5 seconds.
   - The search should return results within 7 seconds.
   - The website should crash not more than once in 100 uses.

vi. User Documentation

The functions in the website (such as the search function) have to be self-explanatory. (for example a search function should say 'Search' and have a search icon, and the comment function could say something like 'share your opinion with others!')

No user guides will be included.

A privacy policy should be available on the website for customers to read in case they wish to.

3. External Interface Requirements

i. Hardware Interfaces

The website is designed for a computer, and the system should be Windows 8 (or an equivalent) or better.

ii. Software Interfaces

The following browsers:

- Microsoft Edge (version 88.0.705.74 or better)
- Chrome (version 90.0.4430 or better)
- Internet explorer (version 11.0.220 or better)
- Safari (version 14.1 or better)

iii. Communication Protocols and Interfaces

The website requires a wi-fi/mobile connection as follows:

- Wi-fi 802.11b, or better; or
- 4G mobile network or better

4. System Features

i. Allow the user and the admin to search for a product, including being able to filter their options

A. Description and priority

The user and admin can search for products available on the webpage and can filter the results.

B. Action/result

Search for products on the webpage that match the preferences (or what is typed in the search bar)

C. Functional requirements

Display results to user/admin.

ii. Allow the user to add or remove a product review (comment *and* rating)

A. Description and priority

The user can add a product review to the website, which consists of a comment and star ratings (out of five).

B. Action/result

The website will add the review for other users and the admin to see.

C. Functional requirements

Display product review.

iii. Allow the user to contact the business

A. Description and priority

The user can send the admin a message through the website, which consists of the full name, email address and the comment (purpose of the message).

NOTE: The client requested that users should not necessarily have an account to send messages to the business.

B. Action/result

The message is sent to the admin with the details (full name, email address and comment)

C. Functional requirements

Send message to admin.

iv. <u>**Allow the user to add and remove items to and from Wishlist**</u>

    A. Description and priority

Users have a 'Wishlist' in which they can have a list of their favourite products. They can choose to include a product, and remove it whenever they like.

    B. Action/result

The item is saved to the 'Wishlist' datastore.

    C. Functional requirements

Add item to Wishlist

v. <u>**Allow the user to sign up or in to their account, and the admin to sign in (only) to their accounts**</u>

    A. Description and priority
Any user can create an account to add reviews or create a Wishlist. They can sign in to this account later
There is ONLY one admin, and there account should be set up for them. From this account, they can add or remove product from the page, or, edit the products.

    B. Action/result
The user/admin is logged in to their account

    C. Functional requirements
Sign the user up, log the user in, log the admin in.s

5. Other Non-Functional Requirements

i. <u>Performance Requirements</u>
- The website should not take more than 5 seconds to load a page.
- The website should not take more than 7 seconds to display search results.
- The website should not take more than 15 seconds to send a message or add a review.

ii. <u>Safety Requirements</u>
- The website should not include overly bright colours to not harm the users sight.
- The website should not contain any elements (photos, videos, icons, etc.) that are considered harmful by animal lovers/non-meat eaters.

iii. <u>Security Requirements</u>
- Passwords in general (user/admin) have to be:
  - ❖ 8 characters long
  - ❖ Contain at least 1 uppercase letter
  - ❖ Contain at least 1 lowercase letter

iv. <u>Software Quality Attributes</u>
- The software should be cross-browser; it should run on the following browsers:
  - ❖ Microsoft Edge

- ❖ Chrome
- ❖ Internet Explorer
- ❖ Safari

The code should be tested to ensure that the website works the same on all browsers, and the scale is not significantly different. Small differences in scale and colours between browsers do not concern the client.

v. __Project Documentation__

- ▪ This *Software Requirements Specification*
- ▪ *The questions sheet* that includes the survey, interview and report questions to be asked to the client and to be researched.
- ▪ *A Use Case Diagram*
- ▪ *A Data Flow Diagram – Level 0* (Context Diagram)
- ▪ *A Data Flow Diagram – Level 1*

vi. __User Documentation__

- ▪ No user guide is included as the website is self-explanatory
- ▪ User Privacy Policy