

System Requirement Specification for Cooking Recipes Platform

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1 Introduction

1.1 Purpose

At the modern time, many people ask themselves every day what food could open their appetite, and where they can find it, or what dessert that can make them happy or satisfied for the rest of the day.

From here comes our solution, a cooking recipes platform that contains many categories of food and desserts, the platform take your preferences and meet your needs.

The product is intended to take information from the user to identify his/her preferences and suggest a food every day that may user like. It also tell user about nearby locations that offer different kinds of food.

1.2 Intended Audience and Reading Suggestions

Readers and audience of this document are people who will work to deliver that product to market, users of the platform, and managers. Here a list of them:

- Project managers:
Different kinds of managers and supervisors of the operation of production of the project including the project manager, and other technical leaders.
- Software engineers:
Software architectures and developers that will design and develop that product. Also database engineers and administrators should have a closer look on that document.
- Marketing staff:
Marketing staff that responsible for clarify our idea to customers and users by neater ways.
- Testers:
Developers that make sure that the product operate well and do its intended functions efficiently during its developing phases.
- Users:
People who will use that product and send feedback and suggestions.

<Describe what the rest of this SRS contains and how it is organized>

1.3 Product Scope

The platform purpose is to satisfy user needs through the service provided, So user could make a profile and approve for some information such as geographical location and his/her preferences and recipes he/she liked before to match foods that may he/she likes. Also the platform bring benefits to the organization, as restaurants owners can register for a price and offer users their dishes.

Benefits Restaurants owners can make contracts with the organization to offer their dishes on the platform. Also when user like a certain dish, the platform provide list of nearby contracted restaurants that offer that dish, so the platform support advertisement that will bring financial benefits and make a name for the organization.

Objectives & goals

- Provide recipes and different kind of dishes to user.
- Attract restaurant owners to make contracts with organization.
- Connect more users with restaurants.
- Establish a name for the organization.
- Take the business from regional area to international area.
- Support the well being living especially for expatriates.
- Support new startups that based on food industry.

2 Overall Description

2.1 Product Perspective

The Platform has two main purposes. The first is to make a big social network to share recipes between different cultures, and aid people that have limited time to choose delicious healthy food, providing where to find that kind of food. The other purpose is to help restaurants and startups that depend on food industry to reach a wider layer of customers, helping youth startups by facilitate reaching their customers.

Also the platform will make the organization well established among regional and international users and customers, all of that besides the nature of the

platform that provide advertising service which returns benefits to the organization. The platform is a self-contained product that doesn't depend on another software.

2.2 Product Function

Functions that the platform should provide:

- User registration, login and logout
- Profile management and update capabilities
- Browsing through different categories of food
- Efficient searching mechanism
- User can be interested in certain product or category
- User can add, like or review a recipe
- Provide geographic locations of restaurants that provide certain product
- Take preferences from user and process it
- Rank products by 'Most Popular' in each category
- Restaurant can register as a shop for a suitable price
- Enterprise Resource Planning (ERP) for small restaurants may be a future feature

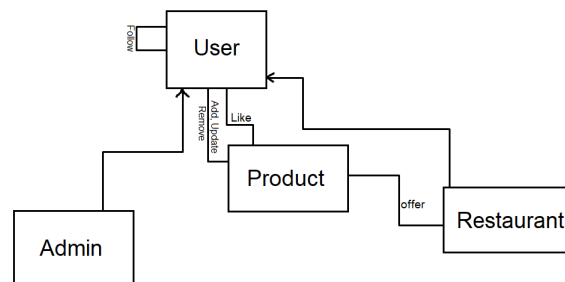


Figure 1: Initial object class diagram

2.3 Operating Environment

The software should operate on nearly all modern browsers with internet connection, such as Microsoft Edge, Google Chrome, Safari and Firefox.

It means that users can use the platform on any device has operating system support browser technology.

3 System Features

3.1 Customer's Interface

3.1.1 Description and Priority

Customer's interface is the most important and basic feature of the platform besides the nature of the service, as it is the main attraction factor.

The interface should be user-friendly, that is every one can enjoy the service and all features through the interface without any difficulty or ambiguity.

Priority: High

3.1.2 Stimulus/Response Sequences

User could register to make a profile or log in as a guest. Registration form take several input from the user, some are optional while some are mandatory to proceed with the registration.

After registration, user can update his/her information and set his/her preferences at any time. Some food or products categories will be displayed to him/her based on his preferences and information, he can choose categories he/she is interested in, the system should display recipes and posts from that categories he/she has chosen.

User can also search for some kind of food, products, recipes or restaurants -that have been registered in the platform- and give a comment or review. Reviews and comments on a product or recipe help the system to rank that product among those in its category.

The system suggests product or food to user from time to time based on his/her information, preferences, and categories he/she liked, if user likes that suggestion, system should give locations of restaurants that offer that product.

3.1.3 Functional Requirements

- Registration:

Registration form take some personal information from user, like username, password, email, nationality and city, geographic location, and account type. Username must contains uppercase or lowercase alphanumeric characters, with no special symbols, email address must follow the standardized form of email addresses, password must contains uppercase and lowercase alphabetic letters and numeric characters. If any of these are invalid according to the statements above, the system should prompt user to enter new valid inputs. Account type can be user account or shop account, each has its special features.

All input are mandatory except geographic location.

Code: REG-2480

- Login:

Login form prompt user to enter his/her email and password, the system validate whether email follow the standardized form or not. Then if email is registered in the system, system confirm that the corresponding password is identical with the entered password. If input are not matched with any records in the system, error message should displayed to user.

Code: LOG-2480

- Update User Information:

User can update his/her personal information from a button in user's profile page. Update form pass by same validation as in registration form. Nearly all information are editable.

Code: UPD-2480

- Browse & Search:

User can browse food and recipes through different categories. Products from liked categories are displayed on day feed.

Searching technology is included via search box at top of pages. Searching algorithms should be as efficient as possible to not affect performance. Searching by pictures may be included in future versions.

Code: BSR-2480

- Add, Update or Delete Recipe:

Users can share their own recipes and manage them. This should be provided by a button in profile and home pages. Also in each recipe

section that user own, there should be buttons for update or delete recipe.

Code: RCP-2481

- **Favorite Recipes or Food:**

The platform provide to users the ‘Favorite’ feature, that is they can add recipes or food they liked to their favorite list. They can add food from favorite list to ‘Want to try’ list a.k.a wish-list. After user choose a food as a favorite, his/her choice recorded and should pass through AI model or algorithms to know more about user preferences, this help the suggestion operation.

Code: RCP-2482

- **Feedback and Support:**

Feedback is essential in developing user-interface applications. For user’s best experience, the platform provide customer support and feedback review system. Also users can report spam, violent, or indecent contents.

Code: SPR-2480

3.2 Shop Interface

3.2.1 Description and Priority

Shop interface is important to attract restaurants and shops to make contracts with the organization. The more features in this interface the more shop owners would like to use our platform. In this interface, shop owner has same features of a regular user, plus several more feature to advertise his/her product, reaching wider range of customers.

Priority: High

3.2.2 Stimulus/Response Sequences

Shop owners have most features of regular users, besides this features, they can publish their products and announce their locations on the platform. Also they can see regional users -according to shop location- preferences and favorites to develop their product according to users preferences. Control panel for shops may be provided in the future.

3.2.3 Functional Requirements

Common requirements between customer interface and shop interface will not included in this section, only additional functionality or new features are listed.

- Registration:
Besides user registration functionality, shop registration take few more input. **"TBD"**
Code: REG-1520
- Set up the menu:
Shop owners can add menu of products they offer. The menu is available for every user on the platform. It can be accessed and modified by owner from shop profile page.
Code: MNU-1520
- Enterprise Resource Planning (ERP):
This feature may be included in future versions or as a separate product to our shop owners. **"TBD"**
Code: ERP-1520

3.3 Marketing Interface

3.3.1 Description and Priority

Marketing interface should be considered to facilitate and enhance marketing staff work. Through this interface, staff members can monitor user's preferences and trends in different locations and regions.

Priority: Medium

3.3.2 Stimulus/Response Sequences

Marketing staff has access on some data from database of the platform. Also staff can use tools provided by this interface to analyze data and produce meaningful information related to their job.

3.3.3 Functional Requirements

"TBD"

3.4 Customer Relationship Management (CRM)

3.4.1 Description and Priority

Customer Relationship Management interface should help employers to properly deliver various services to customers. As this requirement is a whole system that requires another whole software, it should have its own System Requirement Specification (SRS).

Priority: Medium

3.4.2 Stimulus/Response Sequence

CRM staff can access some of users data, receive reports and feedback from them. Also they can contact administrators via connection provided by this interface.

3.4.3 Functional Requirements

- Read users data:
Users data are available to CRM staff at any time through a button provided by their interface.
Code: DATA-0700
- Receive feedback & Reports:
Staff can receive feedback & reports, and reply on them through this interface.
Code: REP-0700
- Contact administrators:
This panel provide easy connection between CRM staff and administrators.
Code: CON-0700

3.5 Administrator Interface

3.5.1 Description and Priority

Administrator interface should be available to monitor user non-sensitive data and activities. It help managing the platform.

Priority: Medium

3.5.2 Stimulus/Response Sequences

Administrators can log to admin panel through a button in their profile pages. They will provided several panels to monitor data from the platform. Also they can approve and verify, or delete shop accounts.

3.5.3 Functional Requirements

- Read users data:
Users data are available to admins at any time through a button in the admin panel.
Code: DATA-0210
- Add users:
Admins can add users. If an admin click the button specified to that function, he/she will redirected to another page similar to registration page.
Code: REG-0210
- Ban users:
Admins can ban reported users after confirmation of information in the report.
Code: BAN-0210
- Delete contents:
Admins can delete reported contents after confirmation of information in the report.
Code: DEL-0210
- Make user administrator:
This functionality is available to super administrators only. From user data panel, there should be the button to make user admin beside each user data row.
Code: ADM-0100
- Contact employees:
This panel provide easy connection between administrator and employees.
Code: CON-0210

4 Other Nonfunctional Requirements

4.1 Performance Requirements

- Loading time must be reduced as much as possible.
- Contact system between admins and employees should operate and respond in real time.
- Ensure that the system is able to withstand many users at one time

4.2 Security Requirements

- Passwords should be hashed before stored in database.
- Ensure that privileges granted to administrators or staff are not accessible to unauthorized users.
- Ensure that privileges granted to super admins are not accessible to other admins or users.
- User registration should be authenticated by email message.
- The user's account will be blocked after a number of failed attempts to login and a verification mail will be sent to user via E-mail.
- Users can not modify other users information or contents.

4.3 Software Quality Attributes

- Errors exception and handling.
- System should be available 24/7.
- Ensure the scalability of the system.
- Ensure the flexibility of the system with huge number of users.