

# Software Requirements Specification

for



## Juice With Ease

Version 1.0, 14th February, 2021

Authored by Team 6  
[Larika Sehgal , Sanchit Trivedi,  
Soumyadeep Paul, Vrinda Singhal ]

CSE583 SDOS Winter 2021, IIITD

# Table of Contents

<b>Table of Contents</b>	<b>ii</b>
<b>Revision History</b>	<b>ii</b>
<b>1. Introduction</b>	<b>1</b>
1.1 Origin	1
1.2 Product Overview	1
<b>2. Overall Description</b>	<b>3</b>
2.1 User Classes and Characteristics	
2.2 List of Product Features	
2.3 Design and Implementation	4
<b>3. External Interface Requirements</b>	<b>4</b>
3.1 User Interfaces	4
<b>4. System Features</b>	<b>5</b>
4.1 User System Feature	5
4.2 Admin System Feature	10
4.3 Super Admin System Feature	15
<b>5. Other Nonfunctional Requirements</b>	<b>17</b>
5.1 Performance Requirements	17
5.2 Safety Requirements	18
5.3 Software Quality Attributes	18
5.4 Business Rules	18
<b>6. Other Requirements</b>	<b>18</b>
<b>Appendix A: Glossary</b>	<b>19</b>
<b>Appendix B: Acceptance Criteria</b>	<b>19</b>
<b>Appendix C: Analysis Models</b>	<b>19</b>
<b>Appendix D: To Be Determined List</b>	<b>19</b>
<b>Appendix E: Meeting Summary</b>	<b>20</b>

## Revision History

Date	Changes	Version
14-02-2021	First Draft	1.0

# **1. Introduction**

## **Origin**

This is a new self-contained product, for the start-up JuiceWithEase. This enables the company to establish an online shop for selling their fresh and healthy juices and beverages product range.

## **Product Overview**

This is a web-app for buying fresh cold pressed juices and beverages online and getting it delivered at your doorstep. The responsive web-app offers one-time delivery and a Daily/Weekly Basket: A customized subscription service where you can choose a variety of juices you want for as many weeks. The users would be able to explore product categories, see the product listing and add items to cart. They can choose the timings for their delivery, allowing 6hrs hours between the time at which order is placed and the expected delivery time.

They can then proceed to checkout and pay using multiple payment options. The web-app will also have an Admin interface, which will allow the admin to track customer transactions and business statistics.

# **2. Overall Description**

## **2.1 Classes and Characteristics**

### **Administrative:**

#### **Store Admin:**

- Frequent User
- Approximately less than 50
- Expectation: Able to view active, past orders, mark orders completed,, mark product availability [ Of that particular store ]

#### **Super Admin:**

- Frequent User
- One account
- Expectation: Able to view details of all the stores. Add/remove pincodes

### **Customer:**

- Infrequent User
- Many Accounts ( DAU ~ 50 , expected to scale upto 1000 ]
- Expectation: Fast, easy and hassle-free product browsing and checkout.

## 2.2 List of Product Features

### User:

1. User Account Setup : Login/SignUp ( High )
2. Select Category ( High )
3. View Product ( High )
  - a. Catalogue
  - b. Single Product info page
4. Add to Cart ( High )
5. Checkout ( High )
6. Order by WhatsApp ( High )
7. Check if Delivery is Possible ( High )
8. View User Details ( High )
9. View About Us ( High )
10. View Contact Us ( High )
11. Payment ( Medium )
12. Submit Feedback ( Medium )
13. Edit User Details ( Medium )
14. View Active Order ( Medium )
15. Forgot Password ( Low )
16. Subscription Purchase ( Low )
17. Order Cancellation ( Low )

### Store Admin:

1. View Active Orders of the Store (Medium)
2. View Completed Orders (Medium)
3. View Failed Orders (Medium)
4. Mark Order Completed ( Medium )
5. Add new orders (Medium)
6. View Customer Feedback ( Low )
7. Change Product Availability (Low)

### Super Admin:

1. View orders of all the stores (Medium )
2. Add/Remove pin codes and Stores (Low)
3. View all user information ( Low )



## Back-end:

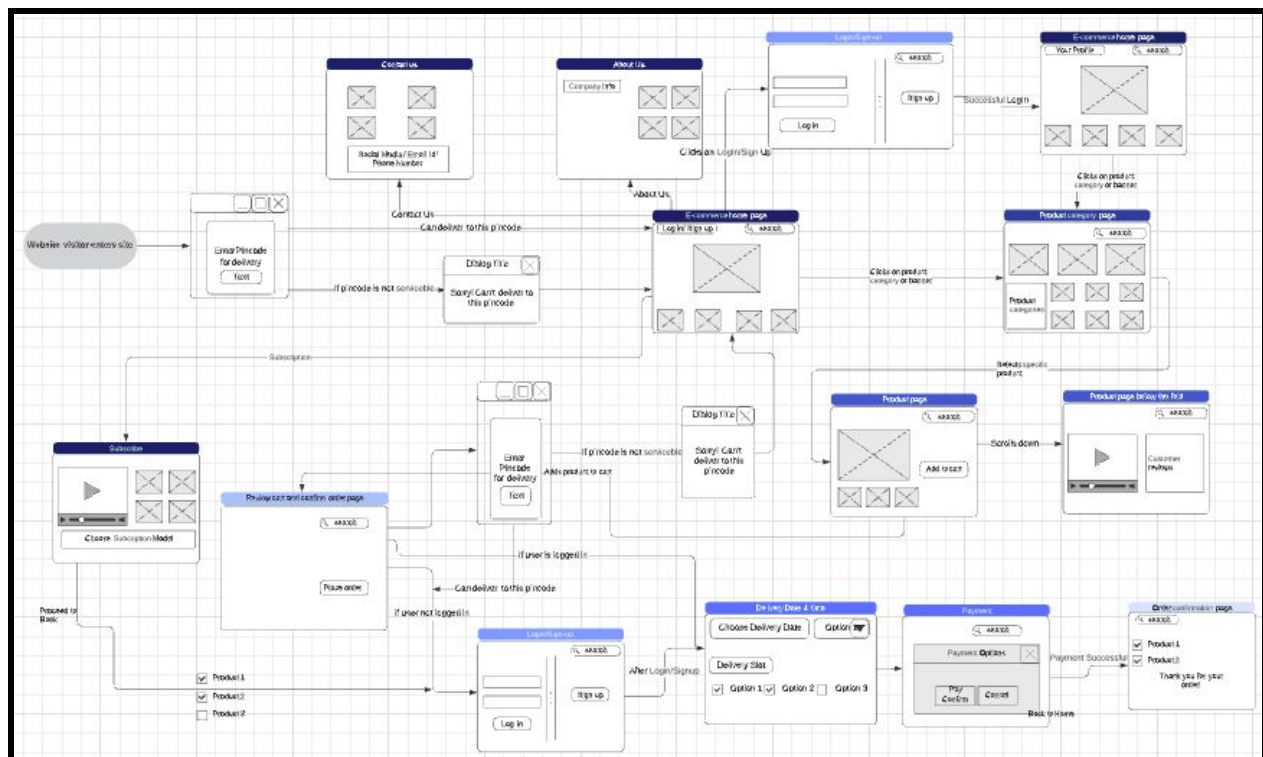
- Node
- Express Js
- JavaScript
- Npm

## Database:

- PostgreSQL

## 3. External Interface Requirements

### User Journey



[Link to Access](#)

## 4. System Features

### CUSTOMER FUNCTIONAL FEATURES:

#### User Account Setup : Login/SignUp

Priority: **HIGH**

##### 4.1.1 Description

The feature enables the user to create a new account or login into an existing account.

##### 4.1.2 Stimulus/Response Sequences

Will prompt the user to select any one of the two options: "Login" or "Sign Up". The "Sign Up" option will allow the user to create a new account.

Sign-Up Options:

1. Google Account ( **LOW Priority** )
2. Facebook Account ( **LOW Priority** )
3. Manual Entry of Name, Mobile number, email address and password.

The "Login" option will allow the user to sign in into an existing account by providing the mobile number/email-id and password.

##### 4.1.3 Functional Requirements

REQ-1 : During "Sign Up" , the email Id and the mobile number entered by the customer will be verified and in case any of them are invalid, the user would be prompted to fill it out again. After verifying these fields successfully, a new account will be created and the user is redirected to the "Home page".

REQ-2: During "Login" using mobile number if the mobile number is invalid or the password is wrong, the user is prompted to retry.

REQ-3:( **LOW Priority** ) During "Login" using facebook/gmail, the user is required to select their facebook/google account and provide the password for the respective account.

After a successful login attempt the user is redirected to the "Homepage".

#### User Profile

Priority: **Medium**

##### 4.2.1 Description

The feature enables the user to view their profile.

##### 4.2.2 Stimulus/Response Sequences

If the user selects the “My Profile” option, they are redirected to a page, which shows the user's details, as described below.

#### **4.2.3 Functional Requirements**

REQ-1: The user should be able to view all their details: Name, mobile number, email Id, Addresses and their past 10 orders. \*

REQ-2: Current subscription Details, If no subscription is availed it shows “Not subscribed”

### **Edit Profile**

Priority: **Medium**

#### **4.3.1 Description and Priority**

The feature enables the user to view and edit their profile.

#### **4.3.2 Stimulus/Response Sequences**

If the user selects the “Edit Profile” option, they are redirected to a page, which shows the user's details, and allows them to edit them.

#### **4.3.3 Functional Requirements**

REQ-1: The user should be able to view all their details: Name, mobile number, email Id, Addresses and their previous 10 orders.\*

REQ-2: The user should be able to edit the mobile number and address.

REQ-3: “Change Password option”, the user should be able to change their password after entering the previous password, the new password and confirming the new password.

REQ-4: The user should be able to add new addresses to the “My Addresses” field.

### **Check if Delivery is Possible**

Priority: **HIGH**

#### **4.4.1 Description**

The feature allows the user to see whether the company delivers to a specific pincode or not. The admin can modify pin codes from the admin dashboard that are serviceable by the company.

#### **4.4.2 Stimulus/Response Sequences**



Will prompt the user to enter a pin code to check for serviceability of the location. Check if pincode can be serviced and accordingly display a message to the user in a popup window. If the pincode is :  
Valid: User Message: "Let's Order! "  
Invalid: User Message: "Sorry, the pin code is not serviceable currently"

#### **4.4.3 Functional Requirements**

REQ-1: User can enter pincode to check whether the product is deliverable  
REQ-2: Admin can add and delete pin codes from the backend.  
REQ 3: **(Low Priority)** Automatically take the GPS location of the user and identify pincode.

## **Product Categories**

**Priority: HIGH**

### **4.5.1 Description**

The feature enables the user to view different product categories ( currently 4 ), by clicking on Categories in the header.

### **4.5.2 Stimulus/Response Sequences**

The user is able to view and choose from the three categories available. On selecting one of the categories, the user can see all the products available under that category.

### **4.5.3 Functional Requirements**

REQ-1: The user can select any one of the four categories: Pure Juices, Daily Detox, Desi Splash, Exotic Delight

REQ-2: The user should be able to select any of these categories and view the products under that particular category

## **View Product**

**Priority: HIGH**

### **4.6.1 Description**

The feature allows the user to view the details of a particular product.

### **4.6.2 Stimulus/Response Sequences**

The user is able to view the details like available bottle sizes, price for one bottle.

### **4.6.3 Functional Requirements**

REQ-1: The user should be able to view the bottle variations for a particular product

REQ-2: The user should be able to view the price of the product.

REQ-3: The user also has the option to “Add to cart”.

## **Add To Cart**

**Priority: HIGH**

### **4.7.1 Description**

While viewing a particular product, the user is shown the option of “Add to Cart”. This will allow the user to add the product to the cart. The user can also select the quantity of that product.

### **4.7.2 Stimulus/Response Sequences**

When the user clicks the “add to cart” button, the user is prompted to select the quantity of that product. After the user inputs the quantity, the products are added to his cart.

### **4.7.3 Functional Requirements**

REQ-1: The user can see the “Add to Cart” option for all the products.

REQ-2: The quantity to be added should be shown as a “number” field. The minimum value should be 1 and the maximum value would be admin defined.

REQ-3: Once the user selects the quantity, the product is added to the user’s cart.

## **Checkout**

**Priority: HIGH**

### **4.8.1 Description**

The feature allows the user to “checkout” or buy the items in their cart. It gives an order summary and allows modifications to the order also.

### **4.8.2 Stimulus/Response Sequences**

On checkout, the user can see the products in their cart, and the quantity selected and price corresponding to each product.

### **4.8.3 Functional Requirements**

REQ-1: The user should be able to view all the different products in their cart.

REQ-2: The user should be able to see the quantity of each product.

REQ-3: The user should be able to see the total price for a product.

Total price = price of 1 item \* Quantity of that item.

- REQ-4: The user should be able to change the quantity of any product.  
special case: If the quantity of a product is 1 and user reduces the quantity of this product, the product should be removed from the cart.
- REQ-5: The user should see a “Confirm Order” option and a warning that “ Orders once placed cannot be cancelled”. If the user selects this option and :  
i) The user is not logged in :  
The user is prompted to “Login/Sign Up”. After the user successfully logs in, they are asked to “select delivery time & date”.  
ii) The user is logged in:  
The user is asked to “select delivery time & date”.
- REQ-6: The user should be able to select a date. The user should be able to select the time slot from the three slots: Morning slot 6 am – 8 am, 8 am -10am and Evening Slot 4pm-6pm, 6 pm -8pm). The users should only be able to view the slots that are at least 6 hours from the time of placing order.
- REQ-7: After selecting the date and time slot for delivery, the user is redirected to the payment gateway.

## **Cancelling Order**

**Priority:** LOW

### **4.9.1 Description**

The feature allows the user to cancel their upcoming subscription order.

### **4.9.2 Stimulus/Response Sequences**

If the user clicks on the “cancel order “ option for an active order, their order gets cancelled and the payment (if done prior to the order delivery) is refunded into the account which was used to pay for the order.

### **4.9.3 Functional Requirements**

- REQ-1: The user can select any active subscription order to cancel. Single Orders cant be cancelled.\*
- REQ-2: Subscription can be cancelled at least 2 days in advance.
- REQ-3: After cancellation, a refund is initiated if the order was already paid for.\*

## Forgot password

Priority: **Low**

### 4.10.1 Description and Priority

The feature enables the user to create a new password if they forget their current password and are not able to login.

### 4.10.2 Stimulus/Response Sequences

If the user selects the “Forgot Password” option, they are redirected to a new window which asks them their email-id/Phone Number using which they created their account.

### 4.10.3 Functional Requirements

REQ-1: The user should be able to enter his/her email and get a link via mail. On clicking the link a new link will open asking them for the new password.

## View Active Orders

Priority: **Medium**

### 4.11.1 Description and Priority

This shows the list of orders to the user that he/she has ordered.

### 4.11.2 Stimulus/Response Sequences

In the profile page when the user clicks on “show active orders”, it shows him/her the list of orders they purchased.

### 4.11.3 Functional Requirements

REQ-1: This list should be fetched from the database on every request in order to show the most latest details.

## Order by WhatsApp

Priority: **High**

### 4.12.1 Description and Priority

The feature enables the user to contact the store admin and place an order directly by chatting with him/her/them.

### 4.12.2 Stimulus/Response Sequences

If the user selects the “WhatsApp” option, the whatsapp app gets opened up with the whatsapp number of the store admin.

### 4.12.3 Functional Requirements

REQ-1: The user is now able to chat with the store admin and places his/her order manually.

REQ-2: The whatsapp of the store admin would be determined by the pincode added by the user, if the pin code lies in the non-serviceable region the whatsapp contact of the super admin is used.

## Subscription purchase

Priority: **Low**

### 4.13.1 Description and Priority

The feature enables the user to book a Daily/Weekly regular order. They can choose from existing subscription models or customize their own model.

### 4.13.2 Stimulus/Response Sequences

If the user selects the “Subscribe” option, they are redirected to a new window where they

1. Choose from existing subscription models
2. Customize their model by:
  - a. Picking type of juices
  - b. Interval of delivery
  - c. Duration of subscription
  - d. Time slot for delivery

They can then proceed to checkout.

### 4.13.3 Functional Requirements

REQ-1: The user should be able to see and choose the Subscription models.

REQ-2: The user should be able to customize their model by entering all the above mentioned details.

REQ-3: Users should be able to redirect to the checkout page after subscription selection.

## About Us

Priority: **Medium**

### 4.14.1 Description and Priority

The feature enables the user to view the details and history about the company “Juice with Ease”

## Submit Feedback

Priority: **Medium**

### 4.15.1 Description and Priority

The feature enables the user to submit a feedback

### 4.15.2 Functional Requirements:

REQ-1: The user can enter a feedback and submit it. These feedbacks can be read by the admins.

## Contact Us

Priority: **Medium**

### 4.16.1 Description and Priority

The feature enables the user to view the contact details about the company “Juice with Ease” such as email id, mobile number, address, etc.

---

## STORE ADMIN FUNCTIONAL FEATURES:

### View orders (to-be-served)

Priority: **Medium**

### 4.17.1 Description and Priority

This is an admin feature and it shows the list of orders that are yet to be delivered.

### 4.17.2 Stimulus/Response Sequences

In the admin page when the admin clicks on “current orders”, it shows them the list of orders which are yet to be delivered.

### 4.17.3 Functional Requirements

REQ-1: This list should be fetched from the database on every request in order to show the most latest details. It should contain all the details of order.

### View orders ( Completed/Failed )

Priority: **Medium**

### 4.18.1 Description and Priority

This is an admin feature and it shows the list of orders that have been delivered.

#### **4.18.2 Stimulus/Response Sequences**

In the admin page when the admin clicks on “past orders”, it shows them the list of orders that have been delivered.

#### **4.18.3 Functional Requirements**

REQ-1: This list should be fetched from the database on every request in order to show the most latest details.

### **Mark orders completed**

Priority: **Medium**

#### **4.19.1 Description and Priority**

This is an admin feature and lets the admin change the order status to completed when they have delivered it.

#### **4.19.2 Stimulus/Response Sequences**

In the admin page when the admin clicks on the “tick symbol”, it removes that order from the list of to-be-delivered orders.

#### **4.19.3 Functional Requirements**

REQ-1: That particular order is removed from the to-be-served list and dumped in the past orders list.

### **View Customer feedback**

Priority: **Low**

#### **4.20.1 Description and Priority**

This is an admin feature and it shows the list of customer feedback and reply to them.

#### **4.20.2 Functional Requirements**

REQ-1: The admin can see the list of user feedbacks that were submitted corresponding to the orders served by that store.

### **Add order details**

Priority: **Medium**

#### **4.21.1 Description and Priority**

This is an admin feature and lets the store admin add the order details to the database which he received through WhatsApp.

#### **4.21.2 Stimulus/Response Sequences**

In the admin page when the admin clicks on “add order”, he is taken to a new page where he/she can add the order details.

#### **4.21.3 Functional Requirements**

REQ-1: When the store admin adds the order details, it gets added to the database successfully.

### **Change product availability**

Priority: **Medium**

#### **4.22.1 Description and Priority**

This is an admin feature and it lets the admin change the availability of the product in the website for the customer to see if that product can be ordered or not.

#### **4.22.2 Stimulus/Response Sequences**

In the admin page when the admin clicks on “show products”, it takes them to a page showing the list of products.

#### **4.22.3 Functional Requirements**

REQ-1: Admin can choose which products are available and which are not and depending on that the availability will be shown in the website for the customers to order.

---

## **SUPER ADMIN FUNCTIONAL FEATURES:**

### **Adding of new pincodes and stores**

Priority: **Low**

#### **4.23.1 Description and Priority**

This is an admin feature and it helps to add new pin codes where delivery is now possible.

#### **4.23.2 Stimulus/Response Sequences**



After logging in with the admin credentials if he/she selects the “add pincode” button, then they are prompted with an input asking to enter the new pincode.

#### **4.23.3 Functional Requirements**

REQ-1: After the pincode is entered it is added in the database and then when a customer from that area enters their pincode the website should show that the delivery is possible in that area.

### **View Orders of all stores**

**Priority:** Low

#### **4.24.1 Description and Priority**

This is an admin feature and it helps to view all the active orders in all the stores.

#### **4.24.2 Functional Requirements**

REQ-1: The super admin should see the order details corresponding to the store that order has to be served by.

### **View all user information**

**Priority:** Low

#### **4.25.1 Description and Priority**

This is an admin feature and it helps to view all the users registered on the website

#### **4.25.2 Functional Requirements**

REQ-1: The super admin should see the user Ids and their order histories.

## **5. Other Nonfunctional Requirements**

### **Performance Requirements**

- Handling DAU ~ 50, expected to scale upto 1000
- Handling ~ 10 Stores

## Safety Requirements

- Email Authentication
- Phone Number Authentication

## Software Quality Attributes:

- Maintainable : The Software will have the required Documentation accompanying the code.
- Correctness: User review is used to ensure the **correctness** of requirements stated in the **SRS**. **SRS** is said to be **correct** if it covers all the requirements that are actually expected from the system.
- Responsive : The website will be able to run on devices of varying screen sizes.
- Usability: The interface is easy to learn and navigate; buttons, headings, and help/error messages are simple to understand.
- Accessibility: The website will suitable for use by people with disabilities

## Business Rules

- 1) There are two types of Admin access levels:
  - a) Admin of particular Store: Should only be able to access Order list and customer transactions, customer review of the given store and not all the stores.
  - b) Super Admin: Has access to all the stores
- 2) Customers have to choose the delivery time for at least 6 Hours later, than the time of order placement.
- 3) Order should be placed only if the pincode of the address added by the customer is in the serviceable region.
- 4) Cancellation and Refund Policy \*

## 6. Other Requirements

### Appendix A: Glossary

DAU → Daily Active Users

### Appendix B: Acceptance Criteria

High & Medium Priority Features

### Appendix C: Analysis Models

User Journey: [Link to Access](#)

Entity Relationship Diagram: [Link to Access](#)

### Appendix D: To Be Determined List ( Marked with \* )

1. Subscription Model Design: It is yet to be determined what customizations are allowed in the customer subscription model.
2. Return Policy , Cancel Policy
3. Features of Admin Interface

### Appendix E: Meeting Summary

#### Meeting 1:

**Date:** 24th January, 2021

**Attendees:** Mr. Rahul Pandey (Sponsor)

**Duration:** 45 min

**Main points of discussion:** Introduction followed by a high level discussion on data security, code standards, code confidentiality , timeline, documentation, software development methodology, approach and architecture.

**Estimate of duration the sponsors spoke:** 25 min

**Estimate of duration the team members spoke:** 20 min

#### Meeting 2:

**Date:** 29th January, 2021

**Attendees:** Mr. Rahul Pandey (Sponsor)

**Duration:** 60 min

**Main points of discussion:** Discussion on User Interface, Functional requirements, tech-stack

**Estimate of duration the sponsors spoke:** 30 min

**Estimate of duration the team members spoke:** 30 min

### **Meeting 3:**

**Date:** 6th February, 2021

**Attendees:** Mr. Rahul Pandey (Sponsor)

**Duration:** 30 min

**Main points of discussion:** Our team presented the User journey diagram, Entity-relation-Diagram, project timeline and User Interface design, discussion on clarification on some functional requirements.

**Estimate of duration the sponsors spoke:** 10 min

**Estimate of duration the team members spoke:** 20 min

### **SRS Review Meeting:**

**Date:** 10th February, 2021

**Attendees:** Mr. Rahul Pandey (Sponsor)

**Duration:** 40 min

**Size of the SRS being reviewed (in pages):** 17

**Briefly describe the method of review used:** The SRS was read allowed and discussed point-by-point by point, Clarified functional doubts, discussion on ERD

---