# **[Project Logo (optional)]**

**BratSpot**

**Software Requirements Specification**

**Version #1**

**Team 12**

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**Revisions**

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**Review History**

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10. **Introduction**

This is a software requirements specification, or SRS, document for a point-of-sale application created for hot dog cart owners, called BratSpot (pronounced “brotspot”). This document will specify the purpose, overall description, and requirements of BratSpot. It will serve as a reference for designers, developers, and testers to ensure that the project requirements are fulfilled. Project management may use the requirements to estimate resources and development timelines, as well as to monitor progress against the plan.

* 1. **Purpose**

The purpose of this project is to improve hot dog vendors’ productivity by enabling them to do more than input an order for a generic hot dog and calculate payment. With BratSpot, hot dog vendors will be able to input customized orders, track inventory, and display filtered search results. By simplifying the ordering and inventory management processes and offering customization, hot dog cart owners can differentiate themselves from others to build brand loyalty in an ever-evolving mobile food vending landscape.

* 1. **Project Objective**

Add 3 features to increase the functionality of a point-of-sale application for hot dog cart owners by May 10, 2022.

* 1. **Project Scope**

BratSpot will be a mobile point-of-sale application that hot dog cart owners can use to conduct their business. In addition to basic functions, such as inputting an order and calculating payment, the application will allow users to:

* + Customize the menu
  + Offer customers even more customization options for hot dogs
  + Easily view orders of varying complexity
  + Keep track of inventory
  + Receive alerts when stock is running low
  + Automatically reorder items when stock is low
  + View filtered menu results

Users will have access to the application anywhere where they can access a Wi-Fi network or cellular data.

* 1. **Definitions, Acronyms, and Abbreviations**
  + **Hot dog vendors**: used interchangeably with “hot dog cart owners”
  + **MOSCOW**: Prioritization technique to rate the importance of the delivery of each requirement - Must have, Should have, Could have, Won’t have
  + **POS**: Point of Sale
  + **SRS**: Software Requirements Specification
  + **Wi-Fi network**: an internet connection shared with multiple devices via a wireless router
  1. **Overview**

The requirements will be discussed in detail in the following sections:

* **Section 2**: describes project features and functions, use cases, and user stories
* **Section 3**: lists the team collaboration and documentation tools used by everyone involved in the application’s creation
* **Section 4**: shows the project management plan using a Gantt chart
* **Section 5**: describes the business requirements, or what the customer needs to do or have to stay in business
* **Section 6**: describes the user requirements, which is how the end-user(s) will use the application
* **Section 7**: describes the functional requirements, which specifies what the application should do
* **Section 8**: describes the non-functional requirements, which specifies how the application performs a certain function

1. **General Description**
   1. **Project Features / Functions**

The 3 features that will be added to BratSpot:

* + **Hot dog customization**: vendors will be able to add and remove ingredients to customize hot dog orders
  + **Inventory management system**: vendors will be alerted when ingredient quantities drop below a certain amount and uses automation to order more stock.
  + **Menu filter**: vendors will be able to view filtered menu options based on selected ingredients to minimize the risk of allergic reaction and for ease of ordering.
  1. **User Stories**
     1. As a hot dog vendor, having the option to keep track of orders on an app would improve productivity.
     2. Being able to remove and add different condiments and toppings to the hot dogs could help improve the customization of the order and bring in more customers.
     3. Displaying each order with the custom toppings and condiments would help the quality of each order stay consistent and therefore keep customers happy.
     4. Having the ability to track my stock of items would greatly improve the flow of work and free up time for my job as a hot dog vendor.
     5. When new items are purchased, I would love for them to be added to my database of existing items in my stock.
     6. Allowing an app to purchase items automatically when they start to reach a low threshold would free up a lot of time for extra work elsewhere.
     7. At my hot dog vendor location, having an app to help search through our various selections and menu would greatly improve the customer experience.
     8. Items on the menu being tagged in the system with different ingredients and toppings would help with ordering from suppliers and for customers ordering from us.
     9. Having a search function which can filter based on names, tags, and ingredients would make for easier ordering, and also prevent problems such as allergic reactions.
  2. **Use Case**
     1. Given a customer's hot dog order, when the vendor inputs the order with the chosen toppings, the order with the correct toppings should appear on the ticket
     2. Given an ingredient that falls below x amount, when the quantity of stock goes below a specified threshold, the vendor will be alerted and the items will be automatically ordered
     3. Given a menu search function, when a customer asks which hot dog contains x ingredient, the vendor should be able to display the filtered menu.

1. **Team Collaboration and Documentation Tools**

Microsoft Teams, GitHub

1. **Project Management Plan**

Graphical user interface, application

Description automatically generated

Timeline

Description automatically generated

1. **Business Requirements**

| Requirement ID | Requirement Description | MOSCOW |
| --- | --- | --- |
| BR1 | e.g. We need to contact the customer with xyz information. | M |
| BR2 |  |  |
| BR3 |  |  |

1. **User Requirements**

| Requirement ID | Requirement Description | MOSCOW |
| --- | --- | --- |
| UR1 | BratSpot will allow customers to input customized orders through a menu. | M |
| UR2 | BratSpot will take customized ingredients and allergy information into account to filter out redundancy for the end user and improve the ordering process. | S |
| UR3 | BratSpot’s menu will display quantities of items on the vendor side with alerts on low items, so that regardless of the automatic ordering vendors will be apprised of low stock. | M |

1. **Functional Requirements**

| Requirement ID | Requirement Description | MOSCOW |
| --- | --- | --- |
| FR1 | When quantities of stocked items reach a low threshold, BratSpot should automatically order more | S |
| FR2 | Once new items have arrived, BratSpot will add them to the inventory database | S |
| FR3 | When a customer makes an order, BratSpot will send the custom order to the vendor | M |
| FR4 | When a customer makes an order, BratSpot will store the data in a database for later viewing | C |
| FR5 | As a customer searches for specific ingredients or toppings, the system will filter to ones that match | M |

1. **Non-Functional Requirements**

|  |  |  |
| --- | --- | --- |
| Requirement ID | Requirement Description | MOSCOW |
| NFR1 | BratSpot will either email or text the hot dog vendor a verification code to prove their identity. | M |
| NFR2 | BratSpot will require username and password to create an account. | M |
| NFR3 | BratSpot should not allow login unless correct username and password are provided. | M |
| NFR4 | The BratSpot app should have bug fixes and maintenance updates regularly. | M |
| NFR5 | BratSpot should be able to be used on multiple mobile platforms like Apple, Android, etc. | S |
| NFR6 | BratSpot shouldn’t use a lot of storage on mobile devices. | S |
| NFR7 | When users put in their orders, the order will be updated and displayed within seconds. | M |

1. **Implementation (Performance) Requirements (Optional)**

| Requirement ID | Requirement Description | MOSCOW |
| --- | --- | --- |
| IR1 |  |  |
| IR2 |  |  |
| IR3 |  |  |