# **CSC154 Software Development Project Overview Template**

Project Name: BratSpot

Team: 12

Project Manager: Michelle Moore

Mentor: Tolu Idowu

Team Members: Nathaniel Behymer, Daniel Hixon, Daniel Meserve, Michelle Moore, Nathan Stewart

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## **Project Objective**: Add 3 features to increase the functionality of a point-of-sale application for hot dog vendors by May 10, 2022.

## **Project Description**:

## This project will develop features that will increase the functionality of BratSpot, a point-of-sale application for hot dog vendors. BratSpot would allow vendors to simplify processes, such as taking customized orders and inventory management. This can lead to increased profit margins by 1) attracting more customers, and 2) highlighting the most popular hot dog combinations. Customers will be more attracted to the app because of the customized options and guaranteed stock from the inventory management. In addition, tracking popular hot dog ingredients allows the vendor to better understand their clientele and generate more revenue from offering popular items.

1. **Project Scope**:

The 3 features that will be added to BratSpot:

1. **Hot dog customization**: offering custom-made hot dogs can build customer loyalty, as well as increase profits by allowing the vendor to charge more for personalization.
2. **Inventory management system**: alerts vendor when ingredient quantities drop below a certain amount and uses automation to order more stock.
3. **Menu filter**: filters menu options based on selected ingredients to minimize the risk of allergic reaction and for ease of ordering.

Deliverables:

* Weekly project status report
* Project overview documentation due by October 6, 2021
* Project requirements specification documentation due by October 20, 2021
* Project high-level design documentation due by November 7, 2021
* Project design documentation completed by November 21, 2021
* 3 new features completed by May 10, 2022

Milestones:

* **Milestone 1 *- Project Selection*** 
  + Date: 09/20/2021 – 10/6/2021
  + Tasks
    - Team kickoff meeting.
    - Selecting project manager.
    - Discussing and determining project management plan.
    - Researching and completing project selection and user stories.
    - Completing and submitting project overview documentation.

* **Milestone 2** – ***Project*** ***Requirements Specification***
  + Date: 10/11/2021 – 10/24/2021
  + Tasks
    - Analyzing the user stories and gathering project requirements.
    - Completing and submitting project requirements specification documentation.
* **Milestone 3** – ***Project*** ***High-level Design***
  + Date: 10/25/2021 – 11/7/2021
  + Tasks
    - Analyzing the project architecture and implementing high level design.
    - Completing and submitting project high-level design documentation.
* **Milestone 4** – ***Project Pitch Presentation and Project Development Evaluation***
  + Date: 11/8/2021 – 11/21/2021
  + Tasks
    - Completing and submitting the completed project design documentation.
    - Presenting the team project pitch.
    - Completing and submitting the self and peer evaluation.
* **Milestone 5:*****Complete Hot Dog Customization Feature***

Date: 1/6/2022 – 2/7/2022

Tasks:

* + - Creating a menu of various hot dog combinations and optional ingredients
* **Milestone 6*: Complete Inventory Management System***

Date: 2/8/2022 – 3/18/2022

Tasks:

* + - Creating a database containing items, their current quantities, the quantity that triggers an alert and the automatic ordering process, and the maximum quantity for each item
    - Adding an alert that notifies the vendor when items are running low
    - Automating ordering items when they fall below a certain amount
    - Connecting hot dog purchases to inventory management
* **Milestone 7: *Complete Menu Filtering Feature***

Date: 3/21/2022 – 4/21/2022

Tasks:

* + - Creating a filter that searches the menu based on ingredients that the customer would like to include or exclude, and display the results

1. **Use Cases and User Stories**:

Use cases:

* + 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.
  + 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.
  + 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.

User stories:

* + As a hot dog vendor, having the option to keep track of orders on an app would improve productivity.
  + 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.
  + Displaying each order with the custom toppings and condiments would help the quality of each order stay consistent and therefore keep customers happy.
  + 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.
  + When new items are purchased, I would love for them to be added to my database of existing items in my stock.
  + 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.
  + At my hot dog vendor location, having an app to help search through our various selections and menu would greatly improve the customer experience.
  + 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.
  + 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.

## Team Collaboration and Documentation Tools: Teams, GitHub

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## Project Management Methodologies: Agile, Scrum