# **CSC154 Software Development Project Overview Template**

Project Name: BratSpot

Team: 12

Project Manager: Michelle Moore

Mentor: Tolu Idowu

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

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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.

1. **Project Scope**:

The 3 features that will be added to BratSpot:

1. Hot dog customizer – customers can build their own hot dog
2. Inventory tracker – alerts vendor when ingredient quantities drop below a defined threshold and resets ingredient quantity when restocked
3. Menu filter – filters menu options based on ingredients

Deliverables:

* Weekly project status report
* Project overview documentation due by September 26, 2021
* Project requirements specification documentation due by October 24, 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 – 10/03/2021
  + 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 – 11/07/2021
  + 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: 11/08/2021 – 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**: Create a menu of various hot dog combinations and optional ingredients

Date: TBD

Tasks: TBD

* **Milestone 6**: Complete inventory management feature

Date: TBD

Tasks: TBD

* **Milestone 7:** Complete filtering feature that displays result

Date: TBD

Tasks: TBD

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

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| Use Case 1 | Take a custom hot dog order |
| Actor | Hot dog vendor |
| Basic Flow | A customer asks for a chili dog with no onions.  The vendor selects the chili dog.  The vendor selects an option like “-“ and then “onions” to indicate that the customer wants everything but onions on their chili dog.  The “- onions” or “no onions” note appears on the order and the onion-less chili dog is made. |

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| Use Case 2 | Take an order that lowers the quantity of an ingredient to less than optimal amount |
| Actor | Hot dog vendor |
| Basic Flow | A customer asks for a hotdog with cheese and ketchup.  After customer pays for the hotdog, -1 is deducted from each ingredient’s quantity.  Now there are 2 bags of shredded cheese left, which is the specified threshold for re-ordering cheese.  A notification appears that cheese needs to be put on the order list.  Once the vendor restocks the cheese, they select an option that resets the quantity. |

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| Use Case 3 | Filter menu options |
| Actor | Hot dog vendor |
| Basic Flow | A customer asks what hot dogs come with chili.  The vendor selects the filter option on the menu and inputs “chili”.  The results return the types of hotdogs that contain chili (e.g., Coney dogs, Cincinnati chili dogs) |

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 hotdog 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