# **CSC289 Programming Capstone**

# **Project Plan**

**Project Name:** *CentRes*

**Team Number:** *#6*

**Team Lead/Scrum Master:** *S. Andy Short*

# Team Member Details

| Name | Email | Phone | Role |
| --- | --- | --- | --- |
| Carson Pribble | cwpribble@my.waketech.edu | 919-943-6923 | PHP/JS  Mid-Front Dev  **PHP Lead** |
| Stephen Short (Andy) | sashort@my.waketech.edu | 919-215-5154 | SQL/PHP/QA  Mid-Back Dev  **SQL Lead** |
| David Utshudiema | dbutshudiema@my.waketech.edu | 919-746-5987 | HTML/CSS  Front Dev  **Front End Assist** |
| Kristen Dine | kcdine@my.waketech.edu | 908-323-5290 | Cloud/HTML/CSS/JS  Front Dev  **Cloud Expert**  **Front End Lead** |
| Donovan Mahan | dlmahan@my.waketech.edu | 703-728-9434 | HTML/JS/SQL  Full-Stack Float  **Front/Back Assist** |

# Industry Mentor Details

| Name | Email | Phone | Preferred Contact |
| --- | --- | --- | --- |
| Heber Romero | hromerot@redhat.com | Has not responded |  |
|  |  |  |  |

# Instructor Details

| Name | Email | Phone | Preferred Contact |
| --- | --- | --- | --- |
| Susan Rizzo | srizzo@waketech.edu | N/A | Email / TEAMS |

# Project Objectives

Our objective is to implement a streamlined and locally deployed Point-Of-Sale system that can handle the daily tasks necessary to efficiently run a restaurant.

# Project Scope

* Application will have four unique user interfaces, one for each employee type. These employee types include the following designations: Manager, Serving Staff, Hosting Staff, Back-of-House (Line-cooks).
* Some of these interfaces will include links to different views that allow for more information/forms in other windows.
* Maintains data collected over time to be used for managerial analysis.
* Will not handle payment transaction nor financial data for analysis.
* Will not be a platform for employee communication and scheduling.
* Will provide transaction logs for employee login/logout, table/ticket history, as well as records of when management overrides a ticket item’s price.

# Project Overview

Servers will have an easy-to-read display that keeps track of things such as menu items, prices, order time, and order status. They can also view their current tables and see the current bill/tab for each table, see the average order time, and display information associated with a table. Line cooks/Chefs will see the current orders placed and the time they were placed. They can notify the server when an order is ready. The application will display the menu and allow the manager the ability to add or edit items in an order. When viewing a table, the server/manager can view or distribute an itemized bill to the customer. The application will display all tables allowing host/hostess to assign tables to specific servers.

# Project Goals

Goals should be S.M.A.R.T. (Specific Measurable Acceptable Realistic Timebound)

| Goals | *S.M.A.R.T. goal* |
| --- | --- |
| **Project Goal 1** | Database schema, and login/logout functionality implemented. First iteration of the server’s user interface will be able to push orders to the database/kitchen. A functioning menu ordering system will also be fully implemented in this view. One team member will ensure that the first iteration will be deployed and accessible through a CSP. |
| **Project Goal 2** | Implement the Back-Of-House user interface and finalize the Server user interface. Integration testing will be heavily utilized here to ensure interoperability between the server and back-of-house views. A menu editing system will be developed during this sprint. This will allow managers to edit the menu and set quantities for menu item inventory. |
| **Project Goal 3** | Implement Manager and Hosting Staff user interfaces. They will have full interoperability with the previously completed interfaces. At this point, full integration tests will be performed as all components will be fully implemented. |

**Note**: See reference information at end of document

# Project Assumptions

{List any assumptions made that could impact the ability of the project team to achieve the project objectives}

* The team is unsure if the deployment will be cloud-based or on prem. It’s likely that difficulties will arise during the implementation of a cloud solution.
* The Back-Of-House implementation has not been finalized.

# Project Resources Required

{List any known dependencies that could constrain the ability of the project team to achieve the project objectives}

* CSP to deploy app for testing and demonstration purposes.

# Project Constraints

{List any know dependencies that could constrain the ability of the project team to achieve the project objectives.}

* Time is the biggest constraint. Most of the team is saddled down with other coursework or and or jobs.
* The group’s competency may styme the progress, functionality, and efficiency of our final product.
* Proper discipline to stay focused and motived to complete tasks in a timely manner.
* Succinct and effective communication is crucial. Meeting length should be kept to the minimum necessary to disseminate the current state of the project and ask/resolve any questions/issues. The Team will have to adapt to its members’ communication styles and personalities to optimize meeting efficiency.
* CSP service provisioning. We must try not to pay for hosting services. This may be the deciding factor for whether CentRes is cloud based.

# (Tentative) Meeting Dates/Times/Venues

Provide details of the meeting dates, times and locations you have arranged with your team and with Industry Mentor(s). Remember to send a calendar invite!

**Note**: You should expect to meet, *at minimum*, once-per-week for Scrums once Project Execution begins. More frequent (*short*) meetings will help maintain communication and momentum while working on this project, so additional scrum meetings are recommended during Sprints. The more successful teams in previous semesters met 2-3 times a week.

# Meeting Details

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Milestone – Week (Activity)** | **Start Date** | **End Date** | **Date/Time** | **Date/Time** | **Date/Time** |
| Milestone 2 – Week 1 (Project Plan) | 1/5 | 1/15 | 1/9 | 1/13 | 1/15 |
| Milestone 2 – Week 2 (Project Plan) | 1/18 | 1/24 | 1/27 |
| Milestone 3 – Week 1 (Sprint 1) | 1/30 | 2/19 | 1/30 | 2/2 | 2/5 |
| Milestone 3 – Week 2 (Sprint 1) | 2/6 | 2/9 | 2/12 |
| Milestone 3 – Week 3 (Sprint 1) | 2/13 | 2/16 | 2/19 |
| Milestone 4 – Week 1 (Sprint 2) | 2/20 | 3/12 | 2/20 | 2/23 | 2/26 |
| Milestone 4 – Week 2 (Sprint 2) | 2/27 | 3/2 | 3/5 |
| Milestone 4 – Week 3 (Sprint 2) | 3/6 | 3/9 | 3/12 |
| Milestone 5 – Week 1 (Sprint 3) | 3/20 | 4/9 | 3/20 | 3/23 | 3/26 |
| Milestone 5 – Week 2 (Sprint 3) | 3/27 | 3/30 | 4/2 |
| Milestone 5 – Week 3 (Sprint 3) | 4/3 | 4/6 | 4/9 |
| Milestone 6 – Week 1 (User’s Guide) | 4/10 | 4/30 | 4/10 | 4/13 | 4/16 |
| Milestone 6 – Week 2 (Presentation Prep) | 4/17 | 4/20 | 4/23 |
| Milestone 6 – Week 3 (Presentation) | 4/24 | 4/27 | 4/30 |

Specific meeting dates will be adjusted weekly based upon the team’s availability.

## NOTES

* You should be able to get the Project Objectives from the SRS document.
* You should be able to get the Project Scope from the SRS document.
* You should be able to get the Project Overview from the SRS document.
* You should be able to come up with at least 3 Project Goals.
  + A project goal is a desired outcome of a project
  + A project goal is a high-level statement providing overall context of what a project will accomplish
  + A project goal, although high-level, should still be a S.M.A.R.T. goal
* The purpose of the Project Plan is to establish team member roles, meeting schedules, etc.
* Prioritize your features keeping your end user’s needs in mind (not yours).
* This is NOT a static document. You may find you need to make changes as development progresses and feedback is received.

## REFERENCES

* What are SMART Goalls and How to Write Them (With Examples!)
  + URL: <https://clickup.com/blog/smart-goals/>
* How to Write SMART Project management Goals
  + URL: <https://project-management.com/smart-goals/#goals>

