

Program Diploma - Capstone Project

Project Title: PocketPOS
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Cohort: *Web Development 2022*

Project Overview

1.1 Description

PocketPOS is a web application allowing from of house workers of service industry keep track of their gratuity earnings, total sales and use tip-outs. As well as providing all required functionality to have POS system available on the chosen device to organize order taking and shift organization.

1.2 Problem

In my 12+ years in restaurant business I realized that people who work as a server/bartender for many years most likely have a job in multiple places that might or might not have house POS. The preferred way of righting down the order for a table and then passing it to POS is still pen and paper for most of small places. PocketPOS will provide professional servers with a solution to have menus of multiple restaurants available on device of choice with information about every dish and drink and full functional of modern POS.

1.3 User Profile

Who is the end user?

Ideal end user of the product is a front of house worker in any restaurant.

How will they use your application?

As a pocket notepad to take the orders from the customer right at the table and provide guest with up to date information about the dishes and drinks. The app will also help with shift paperwork organization, calculating house tip-outs and track total tips earned from all places of work.

Are there any special considerations that your design must take into consideration for the end user? The app must have full functional for order management on any device.

1.4 Requirements: Use Cases and Features

- Provide user with information about total shifts worked per month, total gratuity earnings.
- User end functionality of programming menu for each restaurant with categories and menu positions in each.
- On click of the restaurant name redirect to POS page with menu of specific restaurant.
- Provide functional to create new table with certain amount of seats and ability to right down order for each seat.
- Provide functionality to split the bill in few different ways as well as manipulate gratuity adds.
- On bill close add total amount of sales to day sales and tips
- On shift close add shift starts to main page info.

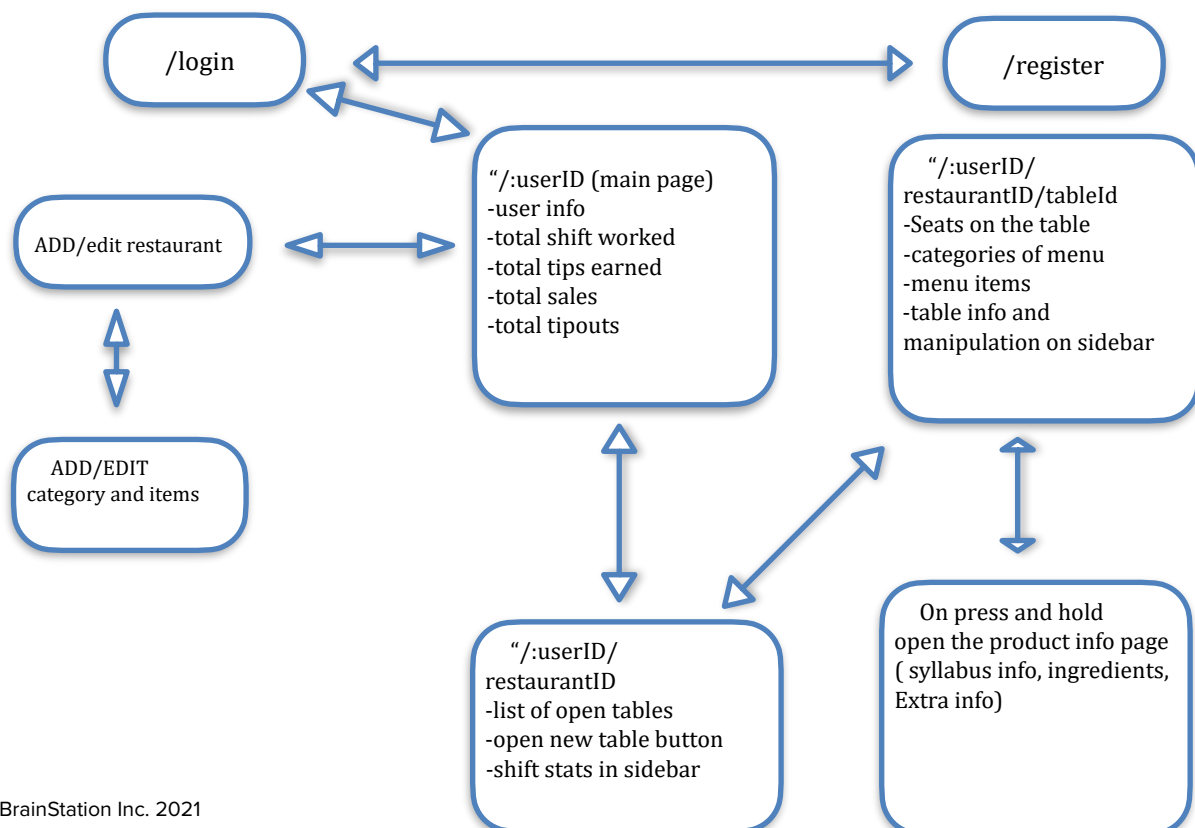
1.5 Tech Stack and APIs

- *HTML/CSS, Sass, JavaScript, React JS, Node JS, mySQL, knex.*

2. Client-Side Implementation

Site Map

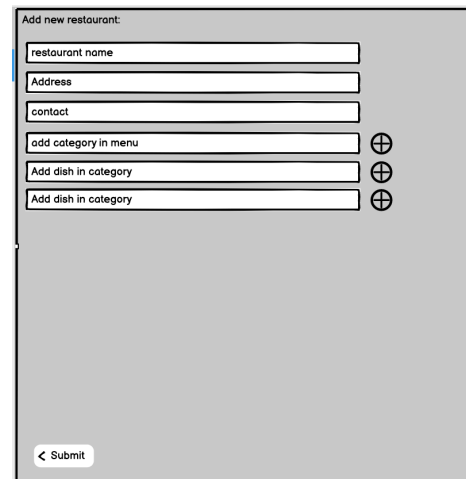
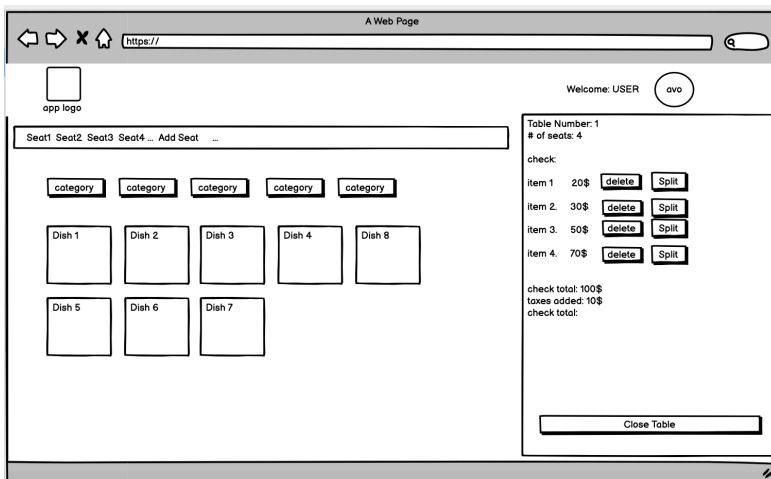
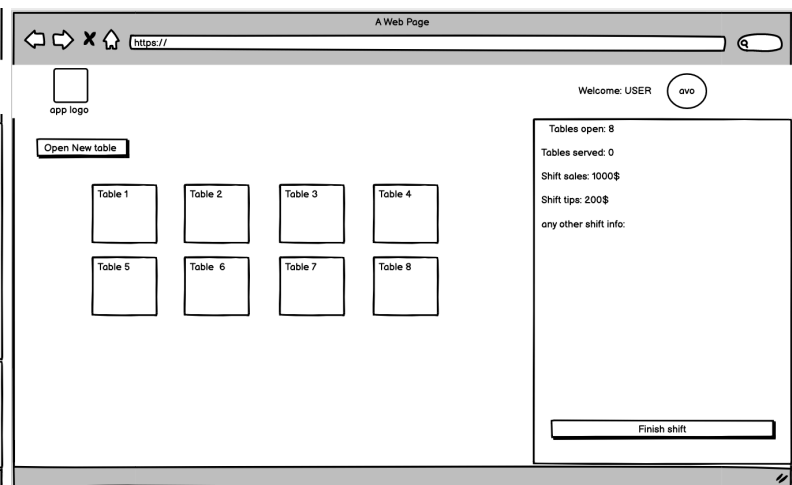
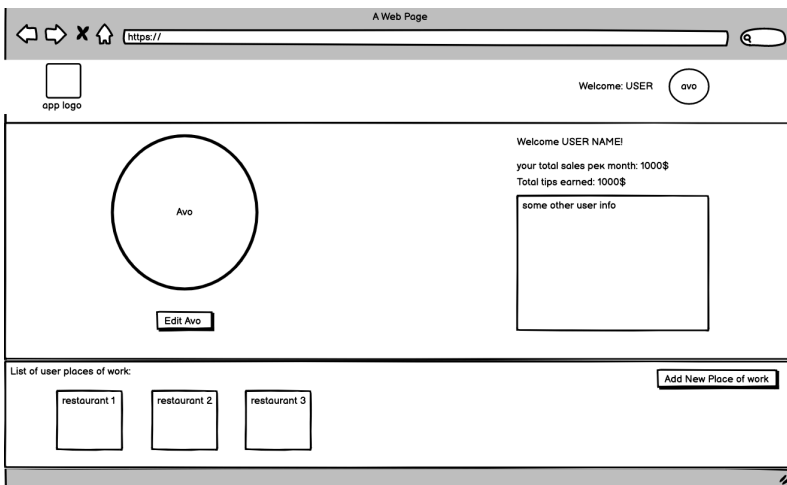
List of pages/screens that your project will implement with brief descriptions. You can use draw.io to make technical diagrams. e.g.)



In list format:

- *Login/register:*
 - *Login page (on submit pull the user info and elated restaurants from API)*
 - *Register page (add new user info and password for log in, push o api)*
- *Home/main page*
 - *User information display*
 - *User photo display and upload functionality*
 - *Total sales from all shifts displayed*
 - *Total tips earned displayed*
 - *Add Restaurant button link to add restaurant page.*
 - *Start shift button-link that leads to /restaurant id page*
 - *Display list of programmed restaurants w/ edit buttons*
- *Add restaurant page/*
 - *Form to fill restaurant info*
 - *Add category*
 - *Add dish in each category*
- *RestaurantId page*
 - *Main area displays total sales for the shift*
 - *Open tables*
 - *Button to add new table*
 - *Button to edit menu of the restaurant with categories*
- *POS page per table*
 - *Displays sit numbers u on top (on choice of the seat number adds dishes to this seat on click)*
 - *Display category list on top in buttons (on CKlick of category opens list of dishes*
 - *List of dishes (on click adds item to specific seat in the check*
 - *Sidebar with bill information (functional of working with bill(splits, totals, tip percentage, close table button)*
 - *Close table button (adds sales amount to total shift sales, add tips to shift tips)*

Screen Details:



Mockups might/will change as the project progresses...

3. Server-Side Implementation

3.1 End-Point Descriptions

A list of endpoints your server will implement, HTTP methods for the end points, and any parameters that the endpoint will accept to fulfill the request. e.g.:

End-point	Response Format
<i>HTTP GET - /todos</i>	<i>{ todos : [{ text : 'STRING', done : TRUE/ FALSE, ID : NUMBER } ...] }</i>

3.2 External APIs that will be consumed

API providing liquor and spirits info on request with spirit/bottle name. (Still in saerch)

3.3 Database Structure

- 1) Table with user info (GET/ PUT/ POST/delete ends on api)
- 2) Table with restaurant info (GET/PUT/POST/delete ends on API)
- 3) Table with menu info (GET/PUT/ POST/delete ends on api)

3.4 Authentication/Authorization and Security

Simple user authorization

4. Project Roadmap

Phase 1

Main project/ pages structure and linking

Styling for all the pages

Main POS functionality (add dish to check on click. Calculate total price)

Main close table/ close shift functionality (adds tips amounts, sales amount, updates info required)

Simple API build with all necessary end points.

Day	Goal
1 (Wed)	Create design for mana pages
2 (Thurs)	Figure out pages layout and routing of the application
3 (Friday)	Include main functionality and structure data distribution for the info page
4 (Mon)	Include main functionality and structure data distribution for the POS page
5 (Tues)	Include main functionality and structure data distribution for the POS page
6 (Wed)	Include main functionality and structure data distribution for the POS page
7 (Thurs)	Include main functionality and structure data distribution for the POS page
8 (Fri)	Create endpoints on the backend based on information needed in front
9 (Mon)	Backend organization and connection to mysql tables
10 (Tues)	DEPLOYMENT
11 (Wed)	DEMO DAY

Phase 2

User authentication and verification.

Phase 3

Connection to a separate API to provide users with information on wine and spirits inventory of each place based on the name of the bottle.

5. Demo Day Information

Please fill out the Google Forms that will be sent out via Slack. This information will be used to complete your presentation and to showcase your profile on the BrainStation website.