Requirements

Functional requirements

1. **Authentication**
   1.1. Login
      1.1.1. Login with PIN
      1.1.2. Login with password
   1.2. Logout
2. **Order**
   2.1. View orders
   2.2. Create order
      2.2.1. Select table
      2.2.2. Select order items
   2.3. Cancel pending order
   2.4. Edit pending order
      2.4.1. Edit selected table
      2.4.2. Edit order items
   2.5. Accept order
   2.6. Decline order
   2.7. Change order status
3. **Bar order**
   3.1. View bar orders
   3.2. Create bar order
   3.3. Decline bar order
   3.4. Accept bar order
   3.5. Change bar order status
4. **Financial reports**
   4.1. View financial report
      4.1.1. View daily financial report
      4.1.2. View weekly financial report
      4.1.3. View monthly financial report
      4.1.4. View yearly financial report
   4.2. Generate report
      4.2.1. Generate daily financial report
      4.2.2. Generate weekly financial report
      4.2.3. Generate monthly financial report
      4.2.4. Generate yearly financial report
5. **Manage staff**
   5.1. Manage wages
      5.1.1. View staff member wage

        5.1.2.   Edit staff member wage

        5.1.3.   View total monthly wages

   5.2.   Staff information

        5.2.1.   View staff members

        5.2.2.   Edit staff member PIN

        5.2.3.   Add staff member

        5.2.4.   Delete staff member

6. Manage food

   6.1.   View available food items

   6.2.   Edit available food items

   6.3.   Add new food item

   6.4.   Delete available food item

7. Manage food menu

   7.1.   View food menu

   7.2.   Edit menu item prices

   7.3.   Edit menu item from-to date

   7.4.   Delete menu item

   7.5.   Add item from food to menu

8. Manage drinks

   8.1.   View drink menu

   8.2.   Edit drink menu item prices

   8.3.   Edit drink menu item from-to date

   8.4.   Delete drink menu item

   8.5.   Add new drink to drink menu

9. Table organization

   9.1.   View table organization

   9.2.   Move table around the restaurant map

   9.3.   Add table to the restaurant map

   9.4.   Delete table from the restaurant map

   9.5.   Change table number on the restaurant map

10. Notifications

   10.1.   Notify bartender that a drink order has been made

   10.2.   Notify waiter that a drink order is ready to be served

   10.3.   Notify cook that a food order has been made

   10.4.   Notify waiter that a food course is ready to be served

Nonfunctional requirements

1. The application is a client-server application supported on both mobile and desktop devices
2. The application will be scalable and will initially support around 100 concurrent staff users and 10,000 concurrent guest users
3. The application runs in a PWA (single page web application)

4. Sensitive data is encrypted using BCrypt
5. The website will require authorized access to handle sensitive financial and employee data pertaining to the restaurant.
6. The website will not allow unauthorized staff members to use functionality dedicated to other roles on the application.
7. The website will be available online 99.9% of the time.
8. The website will be regularly backed up
9. In case the website goes down, it will eventually turn back on and restore a backup of the server.