Software Engineering-2 Cover Sheet

Project   Title: **Restaurant**

Row Number (in PDF): 93

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Introduction:

Welcome to Taste It, where culinary innovation meets cutting-edge technology to provide you with an unparalleled dining experience. Our restaurant isn't just about serving exceptional food; it's about leveraging software solutions to enhance every aspect of your visit. With a commitment to seamlessly integrating digital tools into our operations, we invite you to explore our virtual platform and discover how we're revolutionizing the dining industry.

Overview:

At Taste it, we harness the power of software to redefine the way you dine. Our website serves as a dynamic hub where technology and gastronomy converge, offering a comprehensive suite of digital features designed to elevate your experience. Here's what you can expect from our software-integrated platform:

Interactive Menu: Immerse yourself in our digital menu, where each dish is accompanied by vivid descriptions, mouthwatering images, and allergen information. With interactive features such as ingredient sourcing and nutritional details, you can make informed choices tailored to your preferences and dietary needs.

Online Reservations: Say goodbye to long wait times and phone calls – our intuitive reservation system allows you to book your table with just a few clicks. Whether you're planning a spontaneous dinner or a special occasion, our software ensures seamless scheduling and real-time availability updates.

Events and Promotions: Stay in the loop with our ever-evolving calendar of events, promotions, and exclusive offers. From chef's specials to wine tastings, our software keeps you informed about upcoming happenings and ensures you never miss out on a culinary adventure.

Digital Feedback: Your feedback matters, and our software makes it easy for you to share your thoughts. Whether it's through post-meal surveys or instant feedback forms, we value your input and use it to continuously improve our offerings and service.

Virtual Tour: Embark on a virtual tour of our restaurant through immersive 360-degree photography and virtual reality technology. Explore our elegant dining spaces, state-of-the-art kitchen, and captivating ambiance from the comfort of your own device.

Contactless Payments: Experience the convenience of contactless payments powered by our secure software solutions. Whether you prefer Apple Pay, Google Wallet, or traditional credit cards, we offer a variety of payment options to suit your preferences and ensure a seamless checkout process.

Data-driven Insights: Behind the scenes, our software collects and analyses data to optimize operations and enhance your overall experience. From inventory management to customer preferences, we leverage data-driven insights to deliver personalized service and anticipate your needs.

Our website isn't just a digital storefront – it's a gateway to a new era of dining where software-driven innovation takes centre stage.

Software Requirements Specification (SRS)

1. Functional Requirements:
- Functional requirements descriptions

  - Functional requirements outline the specific behaviours, features, and functionalities that a software system must exhibit to meet the needs of its users and stakeholders. They focus on what the system should do and describe the interactions between the system and its users.

  - The introduction to functional requirements typically provides an overview of the purpose and importance of these requirements within the Software Requirements Specification (SRS). It sets the context for the detailed specifications that follow and explains how functional requirements contribute to achieving the project's objectives.

- Functional requirements Specifications

  - User Authentication and Authorization:

  - Allow users to register and log in.
  - Provide different access levels for customers and restaurant staff.
  - Menu Management:

  - Enable staff to add, edit, and delete menu items.
  - Categorize menu items.
  - Ordering System:

  - Allow customers to browse the menu, add items to a cart, and place orders.
  - Provide order history and tracking.
  - Table Reservation:

  - Allow customers to reserve tables online.
  - Manage reservation slots and availability.
  - Online Payments:

  - Integrate a secure payment gateway for online orders.
  - Support multiple payment methods.
  - User Reviews and Ratings:

- Enable customers to leave reviews and ratings for dishes and the overall experience.
- Provide moderation tools for staff.
- Restaurant Information:

- Display essential information such as location, contact details, and opening hours.
- Integrate with maps for navigation.
- Event Management:

- Showcase special events and allow customers to book tickets or reservations.
- Staff Management:

- Enable staff scheduling and shift management.
- Provide performance tracking tools.
- Analytics and Reporting:

- Generate sales reports and analytics.
- Provide customer insights and inventory management.
- Responsive Design:
- Ensure the web application is responsive across various devices.
- Accessibility and Localization:

- Comply with accessibility standards.
- Support multiple languages and currencies.
- Integration with Social Media:

- Allow users to share dining experiences on social media.
- Integrate social media platforms for login and promotions.

2. **Non-Functional Requirements:**

- **Non-Functional requirements descriptions**
- Non-functional requirements (NFRs) are as critical as functional requirements in shaping the design and behavior of a software system. Unlike functional requirements, which specify what the system should do, non-functional requirements define how the system should perform in terms of quality attributes such as performance, reliability, security, usability, and maintainability.

  The introduction to non-functional requirements sets the stage for understanding their significance and impact on the overall success of the software project. It provides context for the detailed specifications that follow and emphasizes the importance of considering non-functional aspects alongside functional features.

- **Non-Functional requirements Specifications**

- **Performance**. How fast does the system return results?
- **Scalability**. How much will performance change with higher workloads?

  Portability. Which hardware, operating systems, and browsers, along with their versions, do the software run on?
- **Compatibility.** Does the system conflict with other applications and processes?

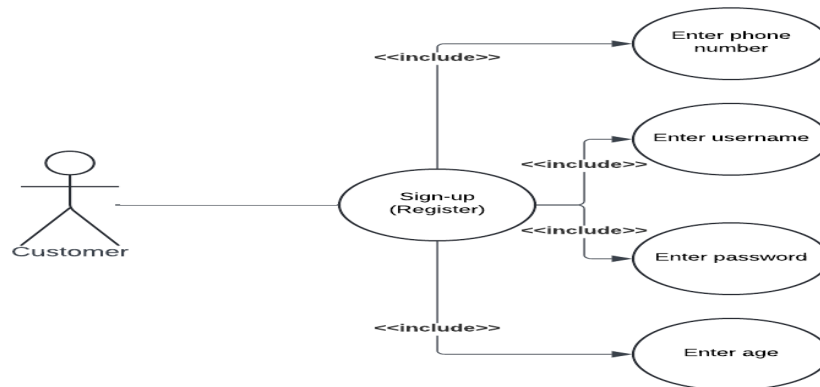 **Reliability**. How often does the system experience critical failures?
- **Maintainability**. How much time does it take to fix the issue when it arises?
- **Availability**. How long is the average system downtime?

  Security. How well are the system and its data protected against attacks?

  Usability. How easy is it to use the system?

3. Use-Cases

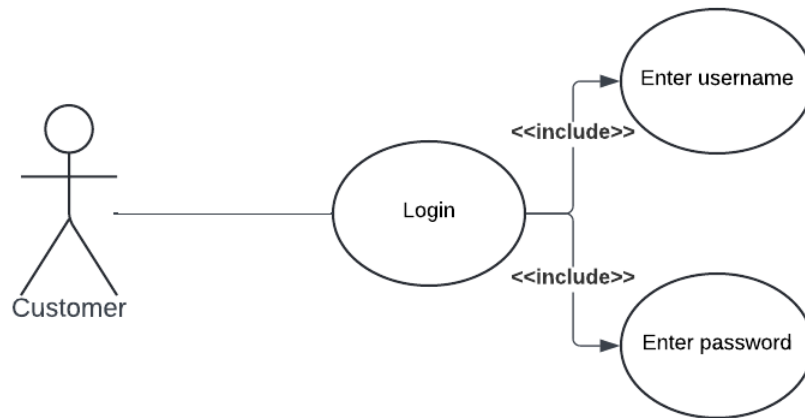- ## <u>Sign- up use case.</u>

<u>Brief description</u>

-The user first sign up, enter their data and log in

<u>Steps</u>
1. Enter a valid username and password.
2. Enter a valid email address.
3. Enter his/her age.
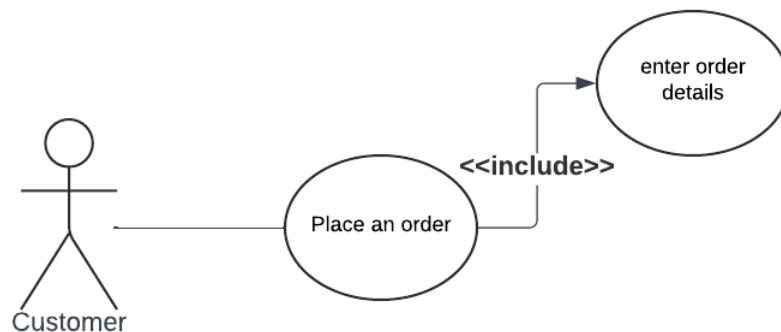4. Sign up completed.

- ## **Log in use case.**

Brief description

-after signing up the user now log in by his saved data, he/she registered with.

Steps
1. Enters username and password.
2. Log in completed.

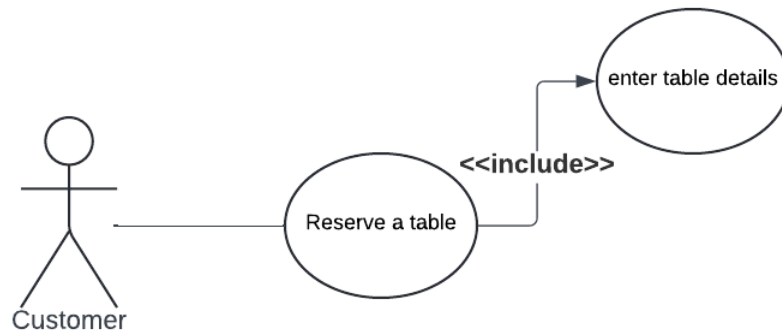- ## **Place an order use case.**

Brief description
-After logging in the user can choose one of many things , place an order by adding the order details .
Steps
1. The user logged on the website.

2. Enter the orders page.
3. Enter the order details.
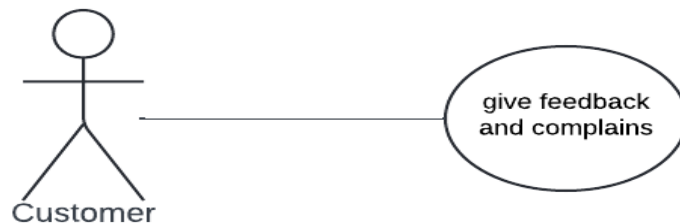4. ensure order details.

- ## **Reserve a table use case.**

Brief description
- After logging in the user can choose one of many things, reserve table by the website, by adding the table details.

Steps
1. The user logged on the website.
2. Enter the reservation page.
3. Enter the table details.
4. ensure table details.

- ## **Feedback/complain use case.**

Brief description
- After logging in the user can give feedback or complain about his/her experience.

Steps
1. The user logged on the website.
2. Enter the feedback message.
3. Or enter the complaint message