CS246 System Design: Requirements Document
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1. Purpose and Scope:
   - Objective:
     - Create a dynamic web application that allows users to learn about Jampot, browse the menu, make purchases, contact the business about catering or personal inquiries, and explore career options.
     - Admins have the power to modify web page appearances, menu and promotion details, and can view applications submitted by potential hires.
   - Scope:
     - In-Scope:
       - Account structure and permissions for employees.
       - Providing editing power to authorized administrators.
       - Integrate Square API to allow for credit card transactions through online orders and E-commerce.
     - Out of Scope:
       - Administrative perspective of email communication.
       - Transaction processes (Square).

2. Stakeholders:
   - Internal Stakeholders:
     - Owners
       - Sarah Gucker
       - Sanjay
       - Third owner
     - Employees
   - External Stakeholders:
     - Customers
   - Stakeholder Roles & Responsibilities:
     - Customers:
       - Benefit through company's increased efficiency and accuracy of set expectations
     - Owners:
       - Receive applications from potential employees and review them.
       - Answer emails and calls from customers.
     - Employees:
       - Take customers orders.
       - Answer the phone at the restaurant.
       - Manage orders by cooking food, or getting merchandise together.

3. Functional Requirements:
   - Features & Functions:
     - Online orders:

- - - Customers need to make online orders, and pay online.
  - Menu:
    - Customers can view the menu (product photos and prices).
    - Menu will be categorized by food or drink type and add ons.
  - Career application:
    - Potential employees can apply for a job through an online form.
  - Advertising
    - Customers can find and contact Jampot (qr code).
    - Customers can view product photos for ongoing promotions.
  - Customer Rewards Program
    - Already tracked through square, but should apply in-store and during online orders (both food and merchandise).

4. Non-functional Requirements:
   - Performance:
     - System will respond to users actions within 2 seconds.
   - Scalability:
     - System will work on desktop and mobile devices.
     - Incoming orders for both food items and merchandise.
     - Any rewards implementation NOT tracked through square.
   - Security:
     - Transactions are secured by square.
     - Admin and employee account passwords are encrypted.
     - Admins and employees will follow a strong password policy.
   - Usability:
     - User-friendly interface with clear navigation.
   - Reliability:
     - Minimal downtime.

5. Constraints:
   - Technical Constraints:
     - No constraints.
   - Budget and Timeline:
     - No budget: project is free.
     - Timeline: Product will be ready to launch by the middle of June.

6. Assumptions & Dependencies:
   - Assumptions:
     - Site users will have constant stable internet connectivity.
   - Dependencies:
     - Stable internet connection and access to email, and phone.

7. Data Requirements:
   - Input:

- Customers can submit orders for food or merchandise.
- Admins can edit existing pages, promotions, and prices.
- Potential hires can submit applications.
- Contact us page allows email submission through on-site form.
- ◆ Output:
  - Reflect modifications made by admins.
  - Kitchen staff receive online food orders.
  - Employees receive online merchandise orders.
- ◆ Storage:
  - Centralized database system.
- ◆ Integrity:
  - Basic data validation for input processes to ensure accurate data entry.

8. Interface Requirements:
   - ◆ User Interface:
     - User friendly and responsive web-design for operation on both desktop and mobile environments
   - ◆ External Systems:
     - Square for processing payments.

9. Risk Requirements:
   - ◆ Potential risks:
     - Site could be configured by anyone who gained access to the admin's account.
     - Transaction portal uptime is not guaranteed since it's run through Square.
   - ◆ Mitigation plans:
     - User account passwords are encrypted.
     - Users will follow a strong password policy.
     - Implementation of two-factor authentication to prevent a breach.

10. Acceptance Requirements:
    - ◆ Definition of "Done":
      - All functional requirements are met
      - All non-functional requirements are met
      - Thorough testing ensures minimal bugs
      - Website is launched as accessible to clients and customers online under company's maintained domain
    - ◆ Validations and verifications plans:
      - Beta tested internally in the company to ensure software runs smoothly.
      - Security tests to confirm data is encrypted and safe