iVending Part 2

Project Group 37

Software Requirements

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| --- | --- |
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* A diagram of a computer

  Description automatically generated with medium confidence**Class Diagram:**

**Fig1: Class Diagram**

* **Sequence Diagrams**

**1. Customer Makes a Purchase**

A diagram of a machine

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**2.Customer Views Purchase History**

**A diagram of a customer

Description automatically generated**

**3. Employee Restocks Vending Machine**

**A diagram of a machine

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**4. Distributor Places Order**

**A diagram of a product

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**5. Payment Failure and Retry**

**A diagram of a machine

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**6. Vending Machine Out of Service**

**A diagram of a machine

Description automatically generated**

**7. Machine Maintenance Request**

**A diagram of a machine

Description automatically generated**

**8. Customer Registers for Loyalty Program**

**A diagram of a company

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* **Communication Diagram**

A vending machine with bottles of soda

Description automatically generatedA person pointing at a screen

Description automatically generatedA person with dark hair and blue shirt

Description automatically generatedA person with dark hair and blue shirt

Description automatically generatedA person with dark hair and blue shirt

Description automatically generated

Customer Interfaces

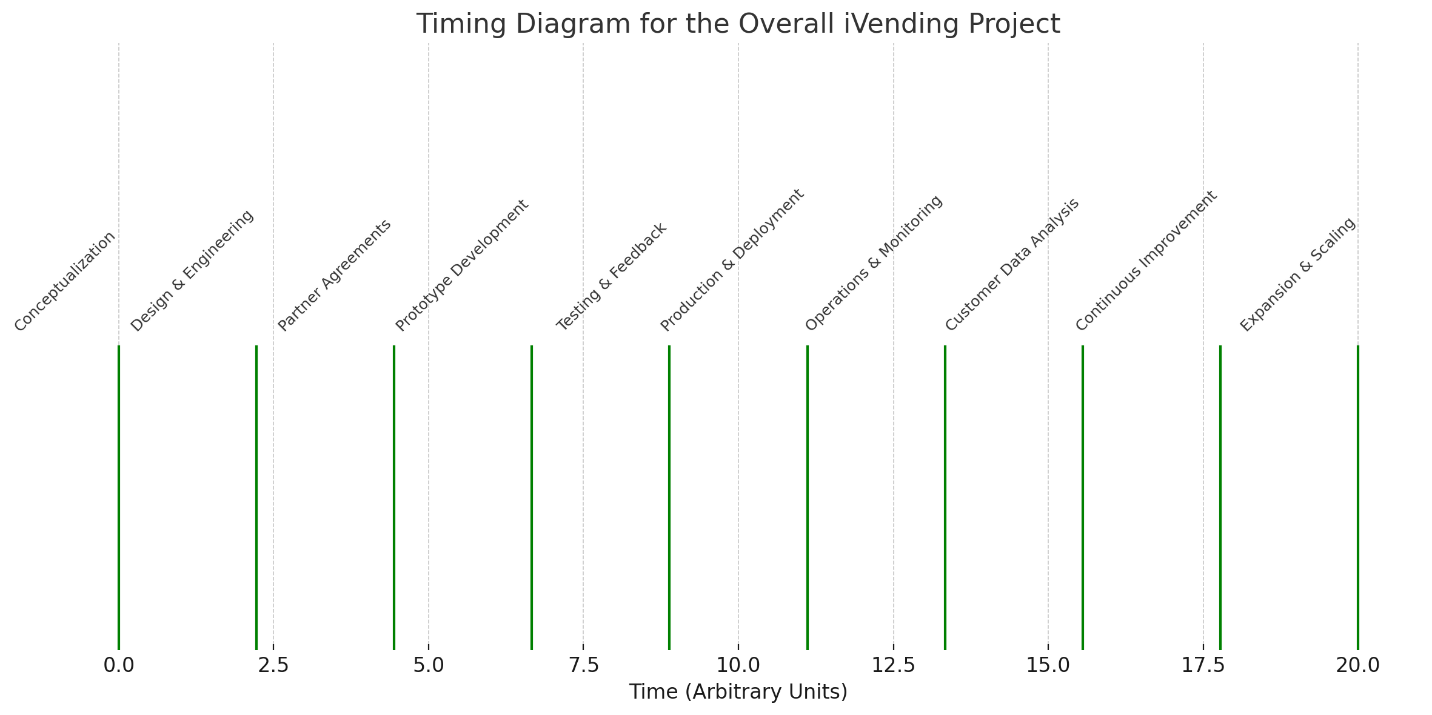
Inventory Management

Operations Center

iVending Machine

Distributors

* **Timing Diagram**



* **User Interfaces**

**A screenshot of a mobile phone

Description automatically generated**

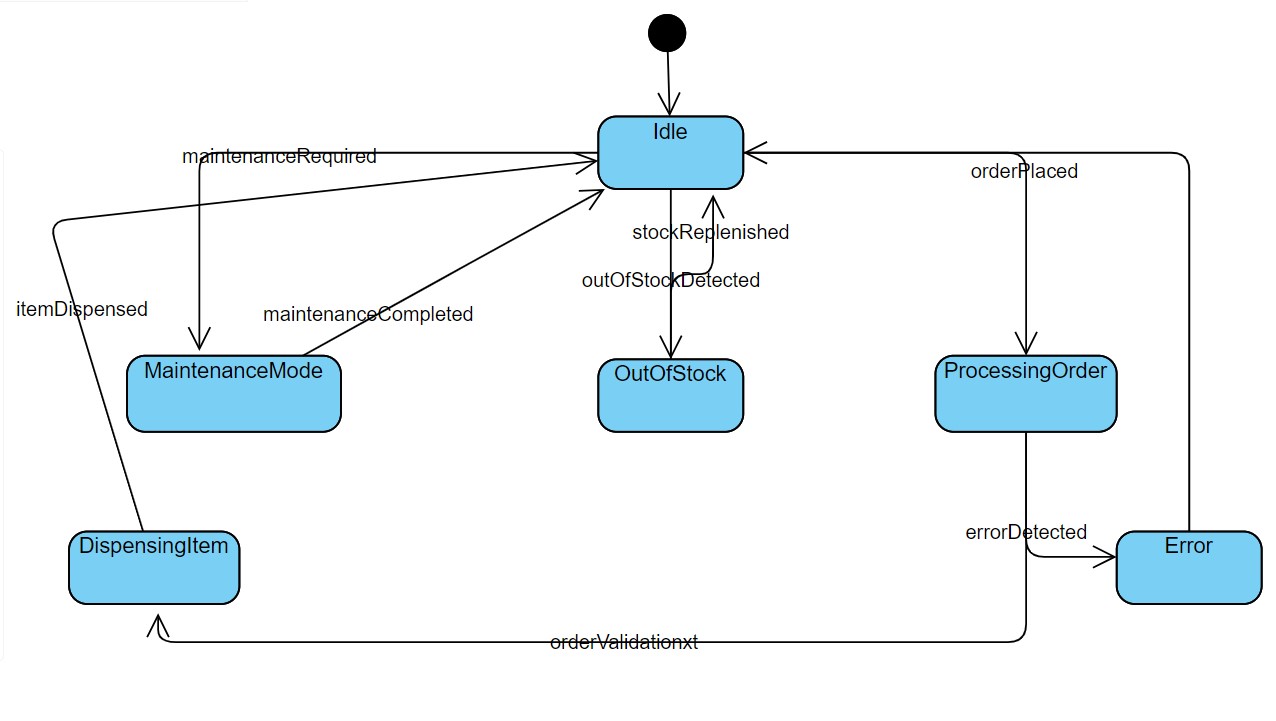
* **Product Selection Screen:** Displays various food, drink, and snack items, categorized for different meals like breakfast, lunch, and dinner, with clear labels and prices.
* **Payment Screen:** A cashless payment interface with options for card payment, mobile payment, and loyalty program participation. It includes a digital keypad for entering payment details and a prominent 'Pay' button.
* **Machine Monitoring Screen:** Features a dashboard for monitoring the vending machine's status, including alerts for maintenance, inventory levels, and machine performance statistics.
* **State Machine Diagrams**

1. **State Machine Diagram 1:**

A diagram of a product

Description automatically generated

1. **State Machine Diagram 2:**

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