**Functional Requirements:**

* The ticket vendor machine shall allow passengers to select their destination and mode of payment.
* The machine shall display a menu of potential destinations for the passenger to select .
* The machine shall allow passengers to input their credit card information or scan a QR code for digital wallet payment.
* The machine shall issue a paper ticket with a barcode for credit card payments.
* The machine shall validate credit transactions and issue the ticket only after successful validation.
* The machine shall provide passengers with the option to cancel their transaction and receive a refund.
* The machine shall track and store ticket information for each transaction, including passenger name, destination, fare, and payment method.
* The machine shall provide a printed receipt to passengers upon completion of their transaction.

**Non-Functional Requirements:**

* The ticket vendor machine shall be reliable and available for use at all times, with a maximum downtime of 5% per month for maintenance and repairs.
* The machine shall respond to passenger inputs within 5 seconds or less.
* The machine shall be secure and protect passenger information from unauthorized access or theft.
* The maximum response time for issuing a ticket should be no more than 10 seconds
* The machine should be easy to use and navigate for users of all ages
* The machine should have a user-friendly interface with clear instructions

**Domain Requirements:**

* The machine should comply with all relevant laws and regulations related to ticket vending and payment processing
* The machine should be able to communicate with other systems in the smart ticketing ecosystem, such as payment gateways and transportation management systems