System requirements of

The ticket vending machine

Student: Nguyễn Ngọc Thông

ID: 521K0032

Class: 21K50201

Table of Contents

**FUNCTIONAL REQUIREMENTS1**

Type chapter title (level 2)2

Type chapter title (level 3)3

**NON-FUNCTIONAL REQUIREMENTS4**

Type chapter title (level 2)5

Type chapter title (level 3)6

Part 1: Functional requirements:

* The system’s first display screen must display a map of it’s operating zone.
* The system must be able to determine the stations that are around the destination’s general area.
* If the customer chooses to pay with credit/debit card, the system must be able to validate the card using the card’s number, and if for any reason the card can’t be validated or is denied, notify the customer so.
* If the customer chooses to pay via E-wallet. The system must issue a QR code and be able to validate the customer’s transaction using information the system fetched from the QR scan, and if for any reason any required information is missing or the wallet is denied, notify the customer so.
* Once the customer has chosen their station and their ticket paid, the system must check at least twice that the ticket has been issued.
* Once all is done, the system must notify the ticket checker of the chosen vehicle about the ticket to avoid the customer being denied entry. Also, the system must record an invoice into it’s database in case the customer’s ticket has been lost or stolen.

Part 2: Non-functional requirements:

* During rush hour (5am - 9am and 4pm – 9pm) the system’s downtime oughtn’t surpass 5 minutes.
* The recommended stations should be sorted by how close they are to the customer’s chosen destination.
* The system’s validation time shouldn’t be more than 1 minute.

Part 3: Domain requirements: