EM\_17

EVENT MANAGER 2017

MOBILE APP DOCUMENTATION

**INDEX**

1. **Requirements**
2. **Software Analysis**
3. **Software Design**
4. **Testing plan**

# Requirements

1.1. Requirements Elicitation

* INTERVIEW n.1

STAKEHOLDER: Prof. Sergio Di Martino

Control officers have mobile devices for accesses validation. The system provides to give and manage an account for each of them.

Each device, connected to a central server, validates a customer’s ticket by scanning its QR code.

Whenever the QR scanning succeeds, the application must show the linked event’s details

* INTERVIEW n.2

STAKEHOLDER: Prof. Sergio Di Martino

It is important for the service to be reliable and fast.

1.2 Requirement Analysis

1.2.1 Use case diagram

Android application

 

Controller Back-office

1.2.2 Use Case Description (Cockburn’s template)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| #1 | Log In |  |  |  |
| *Goal in context* | The controller accesses his account on the application | | | |
| *Success End Condition* | The controller succeeds to log in | | | |
| *Fail End Condition* | The controller fails to log in | | | |
| *Primary actor* | Controller | | | |
| *Trigger* | The controller presses the “Log In” button on the app | | | |
| DESCRIPTION | **STEP N°** | **CONTROLLER** | **SYSTEM** | |
|  | 1 | Writes username and password and presses Log In [LOGIN] |  | |
| 2 |  | Shows scan page [HOME] | |
|
|
| SUBVARIATION #1 | **STEP N°** | **CONTROLLER** | **SYSTEM** | |
|  | 1 | Fails to match user and password and presses Log In [LOGIN] |  | |
|  | 2 |  | Shows the same page but displays a “mismatch user-password” message [LOGIN] | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| #2 | Scan and validate | | |  | |
| *Goal in context* | The controller scans and validate a ticket | | | |
| *Preconditions* | The controller must be logged in | | | |
| *Success End Condition* | The ticket gets validated | | | |
| *Fail End Condition* | The ticket cannot be validated | | | |
| *Primary actor* | Controller | | | |
| *Trigger* | The controller presses “SCAN” button | | | |
| DESCRIPTION | **STEP N°** | **CONTROLLER** | **SYSTEM** | |
|  | 1 | Presses “SCAN” button [HOME] |  | |
| 2 |  | Shows scanning page [SCAN] | |
| 3 | Frames the QR-Code [SCAN] |  | |
| 4 |  | Validates the QR | |
| 5 |  | Shows a feedback (“QR OK”) and the transaction’s data [SCAN DONE] | |
| 6 | Press the “Scan Again” button [SCAN DONE] |  | |
| 7 |  | Shows scanning page [SCAN] | |
| SUBVARIATION #1 | **STEP N°** | **CONTROLLER** | **SYSTEM** | |
|  | 4 |  | Fails to validate the QR | |
| 5 |  | Displays an error message [SCAN FAILURE] | |
| 6 | Press the “Scan Again” button [SCAN FAILURE] |  | |
| 7 |  | Shows scanning page [SCAN] | |
| EXTENSION #1 | **STEP N°** | **CONTROLLER** | **SYSTEM** | |
|  | 3 | Presses “Cancel” button [SCAN] |  | |
| 4 |  | Shows home page [HOME] | |
| EXTENSION #2 | **STEP N°** | **CONTROLLER** | **SYSTEM** | |
|  | 1 | Presses “Log Out” button [HOME] |  | |
| 2 |  | Shows Log In page [LOGIN] | |