



POLITECNICO
MILANO 1863

CLup - Customer Line Up

Software Engineering 2 Project 2020/21

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1 Project analyzed

Repo of the analyzed project:

<https://github.com/davidebaroffio-polimi/baroffiocaleffi>

Group members:

Davide Baroffio (Mat. 970559)

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Source code link:

<https://github.com/davidebaroffio-polimi/baroffiocaleffi/tree/master/clup>

Delivered documents link:

<https://github.com/davidebaroffio-polimi/baroffiocaleffi/tree/master/DeliveryFolder>

2 Installation setup

A Installation Instructions

To install the prototype, we firstly prepared the prerequisites, such as MariaDB creating a new 'clup' database and user 'clup' as illustrated in the installation guide.

Then, we proceeded configuring the environment in Eclipse following step by step the furnished instructions.

They have been written in a very precise and clear way, unfortunately specific on linux operating system, but easily adaptable also to other operating systems (we installed the prototype on linux and macOS).

No incoherences have been found.

3 Acceptance test cases

A Acceptance test cases and outcome

To start testing the project, we started by analyzing the implemented functions and requirements in RASD. The main functionalities implemented are:

- The line-up process, by giving the possibility to a customer to select a store from a list of stores. It corresponds to R9 - Allow customers to select a store from a map and R10 - Allow customers to search for a specific store, even if the map feature has not been considered a core feature, so it has not been implemented.
The system retrieves to customers the first available time slot, with the average duration of the customer's visits and assuming that all the sections of the stores are chosen. So also R12 - Allow users to select the sections they are planning to visit and R13 - Allow users to select the estimated duration of a visit have been postponed to future implementations.
- The customer can start the line-up process and the system will prompt it to insert its personal information. It corresponds to R14 - Allow users to insert their personal information (i.e. first name, second name and telephone number).
- After sending the required informations, and computing the closest available time slot, considering all the section chosen, is created a reservation preview where users can download the QR- Code of the ticket (R15 - Allow users to download a PDF of the ticket)
- Store managers can scan QR-Codes (inserting the ticket number that'll be encoded in them in the web page), and receive a feedback. So R16 - Allow employees to scan QR-codes and R17- Notify employees of the validity of a scanned ticket have been implemented. The scans can be done both to register a customer entry and exit.

Notification manager, log in manager and statistics manager have not been implemented, so R1, R2, R3, R4, R5, R6, R7, R8, R18 (store manager login, store manager view of the list of stores, store manager selection of a store, store manager view of the number of customers, store manager view of customers' info, store manager view of details of visits to the store, store manager view visits details, store manager notification when reached max capacity) have not been considered in this phase. Also customer notification and booking haven't been developed.

We report below is a summary table of the test cases we have implemented:

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
1	Check Store Selection	1. Go to site http://localhost:8080/clup/clup 2. Select a Store from the drop down list. 3. Click Line up.	store=NewStore	Redirect to Credentials insertion	Redirect to Credentials insertion	Pass
2	Check Line Up Acquisition with valid customer data	After selecting store: 1. Enter First name 2. Enter Second name 3. Enter Telephone number 4. Click Get possible line up	first name = Francesco second name = Attorre telephone number = 3333333333 Free places in the next time slot. Time=15:20	Redirect to Reservation's info view. With all sections selected, current date and time slots from the first subsequent one	Redirect to Reservation's info view. With all sections selected, current date and first subsequent time slot (15:30 - 16:00)	Pass
3	Check Line Up Acquisition with valid customer and building full during next time slot.	After selecting store: 1. Enter First name 2. Enter Second name 3. Enter Telephone number 4. Click Get possible line up	first name = Pippo second name = Balo telephone number = 3333333333 There are no places in the next time slot. Time=15:20	Redirect to Reservation's info view. With all sections selected, current date and time slots from the first available	Redirect to Reservation's info view. With all sections selected, current date and first available time slot (16:00 - 16:30)	Pass
4	Check Customer Info Insertion with invalid/empty data	After selecting store: 1. Enter First name 2. Enter Second name 3. Enter Telephone number 4. Click Get possible line up	first name = " second name = " telephone number = ciao	Throws an error and asks for valid and non empty data	Redirect to Reservation's info view. With all sections selected, current date and first available time slot	Fail

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
5	Check Line Up request for a closed building	After selecting Closed Building: After selecting store: 1. Enter First name 2. Enter Second name 3. Enter Telephone number 4. Click Get possible line up	first name = Francesco second name = Attorre telephone number = 3333333333	Notifies there is no reservation proposal available.	Notifies there is no reservation proposal available.	Pass
6	Check Download QR Code	After clicking "Confirm" in Reservation's info page: 1. Click on "Confirm" 2. Click on "Download QR-code"		Downloads a file containing a QR Code image.	Downloads reservationQR file	Pass
7	Check QR Code scan result (entrance)	After Test 2: 1. Visit http://localhost:8080/clup/clup?storeId=1 2. Insert QR Code number 3. Click on Scan!	QR Code value=49. Time = 15:50	Prints "Success"	Prints Success	Pass
8	Check QR Code scan result (exit)	After Test 2 and 7: 1. Visit http://localhost:8080/clup/clup?storeId=1 2. Insert QR Code number 3. Click on Scan!	QR Code value = 49 Time = 15:54	Prints "Success"	Prints Success	Pass

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
9	Check QR Code scan result (after exit)	After Test 2,7 and 8: 1. Visit http://localhost:8080/clup/clup?storeId=1 2. Insert QR Code number 3. Click on Scan!	QR Code value = 49 Time = 15:55	Prints "Permission Denied"	Prints "Permission Denied"	Pass
10	Check QR Code scan (empty code number)	1. Visit http://localhost:8080/clup/clup?storeId=1 2. Insert QR Code number 3. Click on Scan!	QR Code value = "	Prints "Permission Denied"	Prints "Permission Denied"	Pass
11	Check QR Code scan (late)	1. Visit http://localhost:8080/clup/clup?storeId=1 2. Insert QR Code number 3. Click on Scan!	QR Code value = expired Code number	Prints "Permission Denied"	Prints "Permission Denied"	Pass

4 Quality of documentation and code

The repo appeared very neat and well organized, the code well commented and easily readable.

We have not encountered big difficulties in testing, installing and understanding the code.