Room Allotment

Test report

Version *<4.0>*

08/04/2017

VERSION HISTORY

|  |  |  |
| --- | --- | --- |
| **Version #** | **Implemented**  **By** | **Revision**  **Date** |
| 1.0 | *Akshay Agrawal (B15CS004)*  *Aditya Agrawal (B15CS002)*  *Group No- 15* | *08/04/2017* |
| 2.0 | *Divyansh Aggarwal (B15CS017)*  *Vishesh Mistry (B15CS040)* | *22/04/2017* |

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# 1.0 Introduction

## 1.1 Purpose

This **Room Allotment** Test Report provides a summary of the results of test performed as outlined within this document.

# 2.0 Test PLAN

The test plan for this project can be summed up into the following major goals:

1. To check whether the actual software follows the SRS completely or not and if not then report on the changes.
2. To check whether the modules contain any bug, error and any kind of unexpected behavior, and if present then report it.
3. To see if all functionality works or not in the specified manner.
4. To see if UX of the software is consistent and follows the standard.

# 3.0 Test CASE Selection

Test cases were created to test the following functionalities of the software:

1. Login: Login is that functionality that a software having users specific information must have and if there is any error, or if it’s too vulnerable in it then the whole system is done for.
2. Signup: Signup is the very important functionality for any software in which user enters its crucial information, which needs to be correct at any cost.
3. Student Page (Request room): In this functionality user has to input the room related information which he is going to book.
4. HMC Page: The HMC (Admin) can accept/ decline any user’s request for booking of room. At the same time he can view any user’s information.

# Test Results

Number of tests conducted: 27

Number of tests failed: 20

Number of tests passed: 7

Percentage of passed cases = 25.9 %

## LOgin

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T1.1 | Login successful | Login successful | PASS | N/A | N/A | N/A |
| T1.2 | Login Failed | Login successful | FAIL | HIGH | Password is not Case Sensitive | High security concern |
| T1.3 | Toast: Wrong password | Toast: wrong email & password | FAIL | LOW | Toast must be wrong password only in case user id exists | User will be in dilemma whether user id or password is wrong |
| T1.4 | Toast:  User id not exists | Toast:  wrong email & password | FAIL | LOW | Toast must be invalid user id in case user id not exists | User will be in dilemma whether user id or password is wrong |
| T1.5 | Password Hided | Password is in alphanumeric format not in (\*\*\*...) format | FAIL | HIGH | At the time of entering password it must be in (\*\*\*…) format | High Security issues |
| T1.6 | Network status | App hang | FAIL | LOW | App must be connected to the internet otherwise message must be displayed | App has to be restarted |

## SignUP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T2.1 | Signup successful | Signup successful | PASS | N/A | N/A | N/A |
| T2.2 | Signup Failure | Signup successful | FAIL | LOW | Mobile number must be valid for ex it is accepting ‘0000000000’ | N/A |
| T2.3 | Signup Failure | Signup successful | FAIL | MEDIUM | Roll number must be in valid format | In case of false wrong number, identification of the student will become difficult |
| T2.4 | Signup Failure | Signup successful | FAIL | LOW | Password must be at least 6 char. long | Security concern |
| T2.5 | Password Hided | Password is in alphanumeric format not in (\*\*\*...) format | FAIL | HIGH | At the time of entering password it must be in (\*\*\*…) format | High Security issues |
| T2.6 | Signup Failed | Signup successful | FAIL | HIGH | Unique email for each user | High Security issues |
| T2.7 | Signup Failed | Signup successful | FAIL | MEDIUM | Unique roll number must be there | A student should not make 2 accounts |
| T2.8 | Signup Failed | Signup successful | FAIL | MEDIUM | In case of M. Tech. students max year must be 3 | User may register with wrong credentials |
| T2.9 | Signup Failed | Signup successful | FAIL | MEDIUM | Room number values be those which already exists. | User can also book room which doesn’t exists. |
| T2.10 | Network status | App hang | FAIL | LOW | App must be connected to the internet otherwise message must be displayed | App has to be restarted |

## Student Page (ReQuest room)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T3.1 | Room requested | Room number not valid | FAIL | MEDIUM | User cannot request any room | N/A |
| T3.2 | Current room to be displayed | Always showing ‘0’ as current room | FAIL | MEDIUM | N/A | N/A |
| T3.3 | Room requested | Room requested | PASS | N/A | N/A | N/A |
| T3.4 | Room invalid | Room invalid | PASS | N/A | N/A | N/A |
| T3.5 | Network status | App hang | FAIL | LOW | App must be connected to the internet otherwise message must be displayed | App has to be restarted |

## 4.4 HMC Page

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T4.1 | Request Accepted | Request Accepted | PASS | N/A | N/A | N/A |
| T4.2 | Request Declined | Request Declined | PASS | N/A | N/A | N/A |
| T4.3 | Get student details | Get student details | PASS | N/A | N/A | N/A |
| T4.4 | Network status | App hang | FAIL | LOW | App must be connected to the internet otherwise message must be displayed | App has to be restarted |
| T4.5 | Recent request of a particular student | Displaying all the requests which particular student has made | FAIL | MEDIUM | All room request is added every time in the database instead of updating it | Admin will get confused which request to accept or decline. |
| T4.6 | Message showing that room is at its capacity | Room is booked irrespective of no. of student preset there | FAIL | HIGH | No of students present in a room must be shown in the HMC page | Room can be overbooked |

# 5.0 HEURISTIC UX tESTING

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case ID | Issue | Heuristics | Severity |
| UT1 | Inconsistent layout when apps orientation is changed from portrait to landscape mode | Flexibility and efficiency of use | MEDIUM |
| UT2 | No back button functionality to revert back in case of leaving an unwanted state | User control and freedom | MEDIUM |
| UT3 | List view or drop down menu containing available rooms must be shown making it user friendly for inexperienced users | Flexibility and efficiency of use | MEDIUM |
| UT4 | Not compatible with different IOS devices with smaller screen size | General UI problem | HIGH |
| UT5 | Proper error messages with appropriate information must be shown | Help users recognize, diagnose, and recover from errors | MEDIUM |
| UT6 | Proper success messages when task is completed must be shown | General UI problem | LOW |
| UT7 | Allot rooms functionality in HMC page is of no use | Aesthetic and minimalist design | LOW |
| UT8 | UI is not attractive. Buttons are not placed properly and too much padding resulting in unnecessary extra space | Aesthetic and minimalist design | LOW |
| UT9 | Dialogue box to be shown for various confirmation (ex- logout, cancel, submit) | User control and freedom | MEDIUM |

# 6.0 Test Instances

Two major problems that were found during testing of the system:

1. App getting crashed in case of no internet connection, instead of showing any warning.
2. User have to filled room details which are already decided, instead of any drop down type feature which will help him select the room.
3. Inexperienced user will have huge difficulty in booking the room.

## Resolved Test Incidents

|  |  |  |
| --- | --- | --- |
| Test Case ID | Summary of Defect | Resolution Taken |
| T1.2 | Password was not case-sensitive | Backend was changed to make password case-sensitive |
| T1.5 | Password should be hidden | Password text is shown as (\*\*\*…) |
| T1.6 | App crashes when network connection fails | Pop-up message is shown when internet is down |
| T2.2 | Accepting invalid mobile number | 10-digit number not starting from ‘0’ are accepted |
| T2.4 | Password must be at least 6 characters long | Password was to be of minimum 6 characters |
| T2.5 | Password should be hidden | Password should be hidden |
| T2.6 | Unique email for each user | Changed backend to make email unique |
| T2.7 | Unique roll no. for each user | Changed backend to make roll no. unique |
| T2.8 | M.Tech and M.Sc should not have 4th year option | M.Tech and M.Sc can only select between 1,2,3 years |
| T2.9 | Valid room numbers | Appropriate error message is shown if room is not valid |
| T2.10 | App crashes when network connection fails | Pop-up message is shown when internet is down |
| T3.2 | Current room is ‘0’ | Non-allotted students’ room shows “Not Allotted” |
| T3.5 | App crashes when network connection fails | Pop-up message is shown when internet is down |
| T4.4 | App crashes when network connection fails | Pop-up message is shown when internet is down |
| T4.5 | All requests of student are updated in database instead of updating it | Backend changed such that new requests of students overwrite previous ones |

## Unresolved Test Incidents

|  |  |  |
| --- | --- | --- |
| Test Case ID | Summary of Defect | Why not resolved |
| T1.3 | Toast must be wrong password when email exists | Security reasons |
| T1.4 | Toast must be wrong email when password exists | Security reasons |
| T2.3 | Roll no. must be of valid format | As app is multi-college, specific roll format is not required |
| T3.1 | User cannot request any room | User can only request rooms according to year, program and gender |
| T4.6 | Many students can request in one room | HMC will know the capacity and thus will not accept further requests |