**Campus In And Out**

TEST REPORT

Version *1.0*

*04/02/2018*

VERSION HISTORY

|  |  |  |  |
| --- | --- | --- | --- |
| **Version #** | **Implemented**  **By** | **Revision**  **Date** | **Brief Description** |
| 1.0 | Group-19  (Ashutosh Jatav  and  Chetan Prakash Meena) |  | Its a Campus in and out system which track the entry and exit of different gate in campus. |
| *2.0* | *Group-3(Akshay Malav*  *And Lovish singla)* |  | *We have tested the software and during testing some errors were found which are written at the bottom of the report.* |

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# 1.0. INTRODUCTION

# 1.1. PURPOSE

This Campus In And Out *Unit and System* Test Report provides a summary of the results of test performed as outlined within this document.

# 2.0. TEST PLAN

There are various types of test plan but here we are doing testing level specific test plans and under this also we are following unit test plan and system test plan.

# 3.0. DETAILS OF UNIT TESTING

# 

# 3.1. ADMIN

**3.1.1. removeUser()**

3.1.1.1 removeuser()

3.1.1.2 Feature to be tested

When admin wants to remove user this module is called and update database accourdingly

3.1.1.3 Item Pass/Fail Criteria

Database updated as the user already existing in the database has been removed.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | “aaaaa” “bbbbbb” | User removed | Same as expected | Pass | No | Verified |
| 2 | “abababab” “aba” | User removed | Same as expected | Pass | No | Verified |
| 3 | “adsf” “asdf” | Error  If User not exist | Same as expected | Pass | No | Verified |

**3.1.2. addUserAccount()**

3.1.2.1. addUserAccount()

3.1.2.2. Feature to be tested

When admin wants to add user this module is called and update database accourdingly

3.1.1.3. Item Pass/Fail Criteria

Database Updated with new User added given the username should be unique.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
|  | **Take username, password and confirm password as input** |  |  |  |  |  |
| 1 | “aaaa” “bbbbb” “bbbbb” | User added to database | Same as expected | Pass | No | Verified |
| 2 | “ab123” “1234”  “123” | Error  Password does’t match | Same as expected | Pass | No | Verified |
| 3 | “aaaa” “bbbbb”  “bbbbb” | Error  Username already exist | Same as expected | Pass | No | Verified |

**3.1.3. changeUserPassword()**

3.1.3.1. changeUserPassword()

3.1.3.2. Feature to be tested

When admin wants to change user password this module is called and update database accourdingly

3.1.3.3. Item Pass/Fail Criteria

Database updated with new user password for this old userpassword should match.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
|  | **Take username, old password if valid then take new user password** |  |  |  |  |  |
| 1 | “aaaa” “bbbbb”  “ccccc” | Password Changed | Same as expected | Pass | No | Verified |
| 2 | “ab123” “1234”  “ddddd” | Error  Invaild username and password | Same as expected | Pass | No | Verified |
| 3 | “aaaa” “cccc”  “ddd” | Error  Invaild username and password  (old password does’t match) | Same as expected | Pass | No | Verified |

**3.1.4. logout()**

3.1.4.1. logout()

3.1.4.2. Feature to be tested

When this module is called admin will be logged out and return back to login screen

3.1.4.3. Item Pass/Fail Criteria

No pass/fail criteria

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | No input | Back to Login Screen | Same as expected | Pass | No | Verified |

**3.1.5. start()**

3.1.5.1. start()

3.1.5.2. Feature to be tested

When admin wants to select Functionality it can perform this module has been called

3.1.5.3. Item Pass/Fail Criteria

Admin can select upto 1-5 funcation only

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | 1 or 2 or 3 or 4 or 5 | Show Functionality to admin and related funcation is called | Same as expected | Pass | No | Verified |
| 2 | Anything else | Invalid key | Same as expected | Pass | No | Verified |

**3.1.6. viewEntries()**

3.1.6.1. viewEntries()

3.1.6.2. Feature to be tested

When admin want to display previous entries then it call to display entries.

3.1.6.3. Item Pass/Fail Criteria

Admin have to give detail about entries he want to view then the required entries get displayed on the screen.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | Date, Time, Id, Action | Show Previous entries if found else not | Same as expected | Pass | No | Verified |

# 3.2. PERSON

**3.2.1. isInside()**

3.2.1.1. isInside()

3.2.1.2. Feature to be tested

returns 1 if person is inside and 0 if person is outside

3.2.1.3. Item Pass/Fail Criteria

always pass

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | No Input | 1 | Same as expected | Pass | No | Verified |
| 2 | No Input | 0 | Same as expected | Pass | No | Verified |

**3.2.2. exit()**

3.2.2.1. exit()

3.2.2.2. Feature to be tested

when person wants to exit the institute this module has been called.

3.2.2.3. Item Pass/Fail Criteria

always pass

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | No input | Saved in database | Same as expected | Pass | No | Verified |

**3.2.3. entry()**

3.2.3.1. entry()

3.2.3.2. Feature to be tested

when person wants to enter into the institute this module has been called.

3.2.2.3. Item Pass/Fail Criteria

always pass

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | No input | Saved in database | Same as expected | Pass | No | Verified |

# 3.3. SECURITY

**3.3.1. checkId(String Id)**

3.3.1.1. checkId(String Id)

3.3.1.2. Feature to be tested

Security wants to know Whether the id belongs to faculty/worker/student/non-institute then this module has been called

3.3.1.3. Item Pass/Fail Criteria

Database updated with the type of Id wants to enter

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | id(in file) | Return faculty/worker/  student | Same as expected | Pass | No | Verified |
| 2 | id(not in file) | Return non institute | Same as expected | Pass | No | Verified |

**3.3.2. start()**

3.3.2.1. start()

3.3.2.2. Feature to be tested

When Security wants to select its funcationality this modulle has been called.

3.3.2.3. Item Pass/Fail Criteria

Security can choose upto 1-4 by this there corresponding funcationality will get started

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | 1 or 2 or 3 or 4 or 5 | Show Functionality to admin and related funcation is called | Same as expected | Pass | No | Verified |
| 2 | Anything else | Invalid key | Same as expected | Pass | No | Verified |

**3.3.3. addPersonEntry()**

3.3.3.1. addPersonEntry()

3.3.3.2. Feature to be tested

When all the details verify database should be updated and person allowed to enter this module is called when person entry is allowed

3.3.3.3. Item Pass/Fail Criteria

Non

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | Input id | Call entry() for respected id | Same as expected | Pass | No | Verified |

**3.3.4. addPersonExit()**

3.3.4.1. addPersonExit()

3.3.4.2. Feature to be tested

When all the details verify database should be updated and person allowed to exit this module is called when person exit is allowed

3.3.4.3. Item Pass/Fail Criteria

Non

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | Input Id | Call exit() for respected id | Same as expected | Pass | No | Verified |

**3.1.5. viewEntries()**

3.1.5.1. viewEntries()

3.1.5.2. Feature to be tested

When security guard want to display previous entries then it call to display entries.

3.1.5.3. Item Pass/Fail Criteria

Security Guard have to give detail about entries he want to view then the required entries get displayed on the screen.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | Date, Time, Id, Action | Show Previous entries if found else not | Same as expected | Pass | No | Verified |

# 

# 3.4. INSTITUTE

**3.4.1. start()**

3.4.1.1. login(String id)

3.4.1.2. Feature to be tested

when program start this module has been called first.

3.4.1.3. Item Pass/Fail Criteria

if input y/Y then login module has been called else program quit

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | y/Y | Calls login | Same as expected | Pass | No | Verified |
| 2 | n | Program exit | Same as expected | Pass | No | Verified |

**3.4.2. login()**

3.4.2.1. login(String id)

3.4.2.2. Feature to be tested

When User wants to login into the system this module has been called.

3.4.2.3. Item Pass/Fail Criteria

If successfully login then either security will start or admin will start according to account type else wrong username or password for login valid username or password should be there in the database.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | Username, password  “aaa” “bbb”  usertype=gaurd | Guard start | Same as expected | Pass | No | Verified |
| 2 | Username, password  “aaa” “bbb”  usertype=admin | Admin start | Same as expected | Pass | No | Verified |
| 3 | else | Invalid username or password | Same as expected | Pass | No | Verified |

# 3.5. VEHICLE

**3.5.1. checkVehiclePhysical()**

3.5.1.1. checkVehiclePhysical()

3.5.1.2. Feature to be tested

Security update the database as the vehicle is safe or not.

3.5.1.3. Item Pass/Fail Criteria

Database updated accordingly as the vehicle safe or not

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | Y | Vehicle safe | Same as expected | Pass | No | Verified |
| 2 | else | Not safe | Same as expected | Pass | No | Verified |

**3.5.2. isVehicleRegistered()**

3.5.2.1. isVehicleRegistered()

3.5.2.2. Feature to be tested

When security guard wants to know does the person had a vehicle or not, then this module is called.

3.5.2.3. Item Pass/Fail Criteria

If vehicle plate number is found in a specific file then it return true else return false.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | xyz313(Registered Vehicle) | 1 | Same as expected | Pass | No | Verified |
| 2 | gdds342(Not Registered Vehicle) | 0 | Same as expected | Pass | No | Verified |

**3.6. FACULTY**

**3.6.1. exit()**

3.6.1.1. exit()

3.6.1.2. Feature to be tested

when person wants to exit the institute this module has been called.

3.6.1.3. Item Pass/Fail Criteria

always pass

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | No input | Saved in database | Same as expected | Pass | No | Verified |

**3.6.2. entry()**

3.6.2.1. entry()

3.6.2.2. Feature to be tested

when person wants to enter into the institute this module has been called.

3.6.2.3. Item Pass/Fail Criteria

always pass

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | No input | Saved in database | Same as expected | Pass | No | Verified |

**3.7. WORKER**

**3.7.2. exit()**

3.7.2.1. exit()

3.8.2.2. Feature to be tested

when person wants to exit the institute this module has been called.

3.7.2.3. Item Pass/Fail Criteria

always pass

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | No input | Saved in database | Same as expected | Pass | No | Verified |

**3.7.3. entry()**

3.7.3.1. entry()

3.7.3.2. Feature to be tested

when person wants to enter into the institute this module has been called.

3.7.3.3. Item Pass/Fail Criteria

always pass

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | No input | Saved in database | Same as expected | Pass | No | Verified |

**3.8. STUDENT**

**3.8.1. checkSplPermi(String id)**

3.8.1.1. checkSplPermi(String id)

3.8.1.2. Feature to be tested

When Security wants to check whether student have any special permission or not to enter/exit at non-valid time then this module has been called.

3.8.1.3. Item Pass/Fail Criteria

Returns 1 or 0 only if id belongs to student 1 means special permission exist.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | S16cs004(in special permission) | 1 | Same as expected | Pass | No | Verified |
| 2 | s15ee008(not in special permission) | 0 | Same as expected | Pass | No | Verified |

**3.8.2. exit()**

3.8.2.1. exit()

3.8.2.2. Feature to be tested

when person wants to exit the institute this module has been called.

3.8.2.3. Item Pass/Fail Criteria

always pass

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | No input | Saved in database | Same as expected | Pass | No | Verified |

**3.8.3. entry()**

3.8.3.1. entry()

3.8.3.2. Feature to be tested

when person wants to enter into the institute this module has been called.

3.8.3.3. Item Pass/Fail Criteria

always pass

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 | No input | Saved in database | Same as expected | Pass | No | Verified |

# 3.9. DATABASE\_HANDLER

**3.9.1. saveEntries()**

3.9.1.1. saveEntries()

3.9.1.2. Feature to be tested

After all the details verified this module has been called to save into the database.

3.9.1.3. Item Pass/Fail Criteria

Database updated

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 |  | Entry saved in database | Same as expected | Pass | No | Verified |

**3.9.2. addLogEntry()**

3.9.2.1. addLogEntry()

3.9.2.2. Feature to be tested

Add a new entry(either entry or exit of either vehicle or person) in a database.

3.9.2.3. Item Pass/Fail Criteria

Database updated

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 |  | Entry saved in database | Same as expected | Pass | No | Verified |

**3.9.3. getLogEntries()**

3.9.3.1. getLogEntries()

3.9.3.2. Feature to be tested

Store all entries form log file of database to a vector and return vector when this function is called.

3.9.3.3. Item Pass/Fail Criteria

Vector is updated with will all previous entries.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **TEST STEP/**  **INPUT** | **expected Result** | **Actual Result** | **Pass/Fail** | **Comments** | **Verfication** |
| 1 |  | Entries take from database | Same as expected | Pass | No | Verified |

**4.0. SYSTEM TESTING**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step** | **Test Step** | **Intended Result** | **Actual Result** | **Pass/Fail** | **Verfication** |
| 1 | Login as Admin-> addUserAccount | New User will be added | New User will be added | Pass | Verified |
| 2 | Login as Admin-> removeUser | User will be removed | User will be removed | Pass | Verified |
| 3 | Login as Admin-> changeUserPassword | User Password will be changed | User Password will be changed | Pass | Verified |
| 4 | Login as Admin-> Logout | User will be logout | User will be logout | Pass | Verified |
| 5 | Login as Admin-> viewEntries | Display all entries | Display all entries | Pass | Verified |
| 6 | Login as Security-> addEntry-> addPersonEntry | Add person entry in database | Add person entry in database | Pass | Verified |
| 7 | Login as Security-> addExit-> addPersonExit | Add person exit in database | Add person exit in database | Pass | Verified |
| 8 | Login as Security-> addEntry-> addVehicleEntry-> addPersonEntry | Add vehicle and each person sitting inside vehicle entry in database | Add vehicle and each person sitting inside vehicle entry in database | Pass | Verified |
| 9 | Login as Security-> addExit-> addVehicleExit-> addPersonExit | Add vehicle and each person sitting inside vehicle exit in database | Add vehicle and each person sitting inside vehicle exit in database | Pass | Verified |

# 5.0. UNRESOLVED TEST INSTANCES

|  |  |  |
| --- | --- | --- |
| Test Case ID | Summary of Defect | Resolved/Not Resolved |
| *General(found in some of the places)* | *While taking input as integer and if by mistake a person enters string then the program produces unwanted results* | *Resolved* |
| *General(found in some of the places)* | *While taking input as*  *single character and by mistake one enters string then the program shows unwanted results* | *Resolved* |
| *3.3.4* | *In addpersonexit() unit,while marking exit of a vehicle it asks for id’s of the persons sitting inside and if by mistake we enter the id’s of two people same it will accept the exit of the vehicle but that should not be the case two persons can’t have same id so this issue is to be resolved.* | *Resolved* |