

# **Campus In And Out**

## **TEST REPORT**

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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	<i>Group-3(Akshay Malav And Lovish singla)</i>		<i>We have tested the software and during testing some errors were found which are written at the bottom of the report.</i>

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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 accordingly

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	Verification
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 accordingly

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	Verification
	Take username, password and confirm password as input					
1	"aaaa" "bbbb" "bbbb"	User added to database	Same as expect ed	Pass	No	Verified
2	"ab123" "1234" "123"	Error Password doesn't match	Same as expect ed	Pass	No	Verified
3	"aaaa" "bbbb" "bbbb"	Error Username already exist	Same as expect ed	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 accordingly

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	Verification
	Take username, old password if valid then take new user password					
1	"aaaa" "bbbbbb" "cccc"	Password Changed	Same as expect ed	Pass	No	Verified
2	"ab123" "1234" "ddddd"	Error Invaild username and password	Same as expect ed	Pass	No	Verified
3	"aaaa" "cccc" "ddd"	Error Invaild username and password (old password does't match)	Same as expect ed	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	Verification
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 function only

Step	TEST STEP/ INPUT	Expected Result	Actual Result	Pass /Fail	Comments	Verification
1	1 or 2 or 3 or 4 or 5	Show Functionality to admin and related function 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	Verification
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	Verification
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	Verification
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	Verification
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	Verification
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 functionality this module has been called.

## 3.3.2.3. Item Pass/Fail Criteria

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

Step	TEST STEP/ INPUT	Expected Result	Actual Result	Pass /Fail	Comments	Verification
1	1 or 2 or 3 or 4 or 5	Show Functionality to admin and related function 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	Verification
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	Verification
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	Verification
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	Verification
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	Verification
1	Username, password "aaa" "bbb" usertype=guard	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	Verification
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	Verification
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	Verification
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	Verification
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	Verification
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	Verification
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	Verification
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	Verification
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	Verification
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	Verification
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	Verification
1		Entry saved in database	Same as expect ed	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	Verification
1		Entries take from database	Same as expect ed	Pass	No	Verified

## 4.0. SYSTEM TESTING

Step	Test Step	Intended Result	Actual Result	Pass/Fail	Verification
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
<i>General(found in some of the places)</i>	<i>While taking input as integer and if by mistake a person enters string then the program produces unwanted results</i>	<i>Resolved</i>
<i>General(found in some of the places)</i>	<i>While taking input as single character and by mistake one enters string then the program shows unwanted results</i>	<i>Resolved</i>
<i>3.3.4</i>	<i>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.</i>	<i>Resolved</i>