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| G4 Team 7 Test Cases | 2014 | |
|  | | AY 2014/2015 |

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# **Login Test Cases**

**Assumption: test\_cases.zip is pre-loaded into the database with a valid logged in user accessing the various functionalities.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S/N** | **Functionality** | **Description** | **Test Inputs** | **Test Procedure** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Login | Test for invalid admin login | username: admin  password: random | Access “index.jsp” and enter the test inputs | Redirect user to “index.jsp” and display the error message “Invalid username/password” | User will be redirect back to “index.jsp” and an error message “Invalid username/password” is displayed | Pass |
| 2 | Login | Test for valid admin login | username: admin  password: ranonmmb | Access “index.jsp” and enter the test inputs | Redirect user successfully to “admin\_panel.jsp” | User will be successfully directed to “admin\_panel.jsp” | Pass |
| 3 | Login | Test for missing entries | username:  password: | Access “index.jsp” and login without any input | Redirect user to “index.jsp” and display the error message “Please fill out this field.” | User will be prompt to “Please fill out this field.” | Pass |
| 4 | Login | Test for invalid username or password | username: ace.2014@sis.smu.edu.sg  password:  abcd1234 | Access “index.jsp” and enter the test input | Redirect user to “index.jsp” and display the error message “Invalid username/password” | User is redirect back to index.jsp and an error message “Invalid username/password” is displayed | Pass |
| 5 | Login | Test for valid user login | username: ace.2014  password: abcd1234 | Access “index.jsp” and enter the test input | Redirect user successfully to “main.jsp” | User is successfully logged in and redirected to “main.jsp” | Pass |
| 6 | Login | Test for accessing “main.jsp” from URL without logging in | NA | Append “main.jsp” to URL before logging in and go to the URL | Redirect user to “index.jsp” | User is not able to access main.jsp and redirected back to “index.jsp” | Pass |
| 7 | Login | Test for accessing “log\_in.do” from URL without logging in | NA | Append “log\_in.do” to URL before logging in and go to the URL | Redirect user to “index.jsp” | User is not able to access main.jsp and redirected back to “index.jsp” | Pass |
| 8 | Login | Test for accessing “main.jsp” from URL without logging in again after logging out | NA | Logout first and append “main.jsp” to URL before logging in and go to the URL | Redirect user to “index.jsp” | User is redirect back to “index.jsp” | Pass |
| 9 | Json for Authenticate | Test for missing username and password | NA | Access “/json/authenticate?”without any input | {  "status": "error",  "messages": [  "missing password",  "missing username"  ] } | {  "status": "error",  "messages": [  "missing password",  "missing username"  ] } | Pass |
| 10 | Json for Authenticate | Test for blank username and password | username:  password: | Access “/json/authenticate?”with the test input | {  "status": "error",  "messages": [  "blank password",  "blank username"  ] } | {  "status": "error",  "messages": [  "blank password",  "blank username"  ] } | Pass |
| 11 | Json for Authenticate | Test for invalid username or password | username: admin  password:  ranon | Access “/json/authenticate?”with the test input | {  "status": "error",  "messages": [  "invalid username/password"  ] } | {  "status": "error",  "messages": [  "invalid username/password"  ] } | Pass |
| 12 | Json for Authenticate | Test for valid admin accessing | username:  admin  password:  ranonmmb | Access “/json/authenticate?”with the test input | {  "status": "success",  "token": “valid token” } | {  "status": "success",  "token": “valid token” } | Pass |

# **Bootstrap / Upload Test Cases**

**\*Note for Test Cases 1-6, conduct with the specified .zip files**

**\*For Test Case 8, refer to the .txt files provided in the “/Bootstrap Test Cases Results” folder**

**\*For files that are required for bootstrap/upload, find it in the “/Files to Bootstrap” folder**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S/N** | **Functionality** | **Description** | **Test Inputs** | **Test Procedure** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Bootstrap / Upload | Test that only admin with valid credentials can access the bootstrap page | Username:  admin  Password: incorrectPassword | Access “index.jsp” and enter test input | ‘invalid username/password” | ‘invalid username/password” | Pass |
| 2 | Bootstrap / Upload | Test that non-admin cannot access the bootstrap page | Username:  ace.2014  Password:  abcd1234 | Access “index.jsp” and enter the test input. Upon successful login, access the following - http://app-2014is203g4t7.rhcloud.com/admin | The user is to be redirected to “main.jsp”. | The user is to be redirected to “main.jsp”. | Pass |
| 3 | Bootstrap / Upload | Test the upload of no files. |  | Access “/admin” and click bootstrap under both bootstrap & upload without any file | “blank bootstrap-file” | Nothing is bootstrapped | Pass |
| 4 | Bootstrap / Upload | Test for upload of invalid extension | bootstrap-file:  “invalid-upload.docx” | Access “/admin” and bootstrap “invalid-upload.docx” | invalid bootstrap-file” | Nothing is bootstrapped | Pass |
| 5 | Bootstrap / Upload | Test for valid wiping of database | Step 1: bootstrap-file: “test-cases.zip”  Step 2:  bootstrap-file:  “blank.zip”  Step 3:  Logout and login with the following - username: ace.2014  password:  abcd1234 | Step 1:  Access “/admin” and bootstrap “test-cases.zip”  Step 2:  Bootstrap “blank.zip” | Step 1:  Bootstrapped successfully  demographics.csv: 140  location-lookup.csv: 543  location.csv: 373  Step 2:  Bootstrapped successfully  demographics.csv: 0  location-lookup.csv: 0  location.csv: 0  Step 3:  “invalid username/password” | Step 1:  Bootstrapped successfully  demographics.csv: 140  location-lookup.csv: 543  location.csv: 373  Step 2:  Bootstrapped successfully  demographics.csv: 0  location-lookup.csv: 0  location.csv: 0  Step 3:  “invalid username/password” | Pass |
| 6 | Bootstrap / Upload | Test for being able to upload multiple times successfully | Step 1:  bootstrap-file  “test-cases.zip”  Step 2:  Upload “uat-data2.zip”  Step 3:  Upload “uat-data2.zip” again | Step 1:  Access “/admin” and bootstrap “test-cases.zip”  Step 2:  Upload “uat-data2.zip”  Step 3:  Upload “uat-data2.zip” again | Step 1:  Bootstrapped successfully  Step 2:  Uploaded successfully  location.csv - 20  demographics.csv - 4  Step 3:  Uploaded successfully  location.csv - 0  demographics.csv - 0 | Step 1:  Bootstrapped successfully  Step 2:  Uploaded successfully  location.csv - 20  demographics.csv - 4  Step 3:  Uploaded successfully  location.csv - 0  demographics.csv - 0 | Pass |
| 7 | Bootstrap / Upload | Test validation of bootstrap validation  **Specific test results** are in “bootstrap-location-results.txt”, “bootstrap-location-lookup-results.txt” and “bootstrap-demographics-results.txt” | Step 1:  bootstrap-file  “bootstrap-validation.zip” | Access “/admin” and bootstrap “bootstrap-validation.zip” | Bootstrapped successfully  demographics.csv - 1542  location-lookup.csv - 535  location.csv - 2 | Bootstrapped successfully  demographics.csv - 1542  location-lookup.csv - 535  location.csv - 2 | Pass |

# **Heatmap Test Cases**

**Assumption: test\_cases.zip is pre-loaded into the database with a valid logged in user accessing the various functionalities.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/Fail |
| 1 | Heatmap | Test for repeated entries | Date: 2014-03-01 12:15:00  Level: L3 | Access “heatmap.jsp” and select the test inputs | Count: 1  Density: 1  Location:  SMUSISL3STUDYAREA1N    Rest of Level 3: 0 | Count: 1  Density: 1  Location:  SMUSISL3STUDYAREA1N    Rest of Level 3: 0 | Pass |
| 2 | Heatmap | Test for aggregation of semantic place using different location\_id | Date: 2014-03-01 12:45:00  Level: L5 | Access “heatmap.jsp” and select the test inputs | Count: 2  Density: 1  Location: SMUSISL5STUDYAREA1N, SMUSISL5ACADOFFICEN    Count: 1  Density: 1  Location:  SMUSISL5LOBBYN    Rest of Level 5: 0 | Count: 2  Density: 1  Location: SMUSISL5STUDYAREA1N, SMUSISL5ACADOFFICEN    Count: 1  Density: 1  Location:  SMUSISL5LOBBYN    Rest of Level 5: 0 | Pass |
| 3 | Heatmap | Test for aggregation of semantic place using same location\_id | Date: 2014-03-01 13:00:00  Level: L5 | Access “heatmap.jsp” and select the test inputs | Count: 3  Density: 2  Location: SMUSISL5ACADOFFICEN    Count: 2  Density: 1  Location: SMUSISL5STUDYAREA2N    Rest of Level 5: 0 | Count: 3  Density: 2  Location: SMUSISL5ACADOFFICEN    Count: 2  Density: 1  Location: SMUSISL5STUDYAREA2N    Rest of Level 5: 0 | Pass |
| 4 | Heatmap | Test display of no results | Date: 2014-03-01 12:00:00  Level: L5 | Access “heatmap.jsp” and select the test inputs | All locations at the current level displayed 0 | All locations at the current level displayed 0 | Pass |
| 5 | Heatmap | Test accurate display of density | Date:  2014-03-01  11:15:00  Level: L2 | Access “heatmap.jsp” and select the test inputs | Count: 0  Density: 0  Location: SMUSISL2LOBBYN  Count: 2  Density: 1  Location: SMUSISL2SR2-1N  Count: 3  Density: 2  Location: SMUSISL2SR2-2N  Count: 6  Density: 3  Location: SMUSISL2SR2-3N  Count: 20  Density: 4  Location: SMUSISL2SR2-4N  Count: 21  Density: 5  Location: SMUSISL2STUDYAREA1N  Count: 31  Density: 6  Location: SMUSISL2STUDYAREA2N | Count: 0  Density: 0  Location: SMUSISL2LOBBYN  Count: 2  Density: 1  Location: SMUSISL2SR2-1N  Count: 3  Density: 2  Location: SMUSISL2SR2-2N  Count: 6  Density: 3  Location: SMUSISL2SR2-3N  Count: 20  Density: 4  Location: SMUSISL2SR2-4N  Count: 21  Density: 5  Location: SMUSISL2STUDYAREA1N  Count: 31  Density: 6  Location: SMUSISL2STUDYAREA2N | Pass |
| 6 | Heatmap | JSON test for blank floor | Floor:-blank-  Date: 2014-03-01T  12:00:00  Token: valid token | Access “/json/heatmap/” with the test inputs | {  "status": "error",  "messages": [  "blank floor"  ] } | {  "status": "error",  "messages": [  "blank floor"  ] } | Pass |
| 7 | Heatmap | JSON test for missing floor | Date: 2014-03-01T  12:00:00  Token: valid token | Access “/json/heatmap/” with the test inputs | {  "status": "error",  "messages": [  "missing floor"  ] } | {  "status": "error",  "messages": [  "missing floor"  ] } | Pass |
| 8 | Heatmap | JSON test for invalid floor | Floor: abc  Date: 2014-03-01T  12:00:00  Token: valid token | Access “/json/heatmap/” with the test inputs | {  "status": "error",  "messages": [  "invalid floor"  ] } | {  "status": "error",  "messages": [  "invalid floor"  ] } | Pass |
| 9 | Heatmap | JSON test for multiple errors | <blank> | Access “/json/heatmap/” with the test inputs | {  "status": "error",  "messages": [  "missing date",  "missing floor",  "missing token"  ] } | {  "status": "error",  "messages": [  "missing date",  "missing floor",  "missing token"  ] } | Pass |
| 10 | Heatmap | JSON test for multiple errors | Floor: <blank>  Date: <blank>  Token: <blank> | Access “/json/heatmap/” with the test inputs | {  "status": "error",  "messages": [  "blank date",  "blank floor",  "blank token"  ] } | {  "status": "error",  "messages": [  "blank date",  "blank floor",  "blank token"  ] } | Pass |

# **Basic Location Report Breakdown Test Cases**

**Assumption: test\_cases.zip is pre-loaded into the database with a valid logged in user accessing the various functionalities.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality (as per requirements document) | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/Fail |
| 1 | Breakdown by Year, School & Gender | Test for repeated entries  (1 Criteria) | Date: 2014-03-01 13:15:00  Order: Gender | Access “basic\_breakdown.jsp” and select the test inputs | Count:  Male: 1 100% | Count:  Male: 1 100% | Pass |
| 2 | Breakdown by Year, School & Gender | Test for repeated entries  (2 Criteria) | Date: 2014-03-01 13:15:00  Order: Year, Gender | Access “basic\_breakdown.jsp” and select the test inputs | Count:  2014: 1 100%  Male: 1 100% | Count:  2014: 1 100%  Male: 1 100% | Pass |
| 3 | Breakdown by Year, School & Gender | Test for repeated entries  (3 Criteria) | Date: 2014-03-01 13:15:00  Order: School, Year, Gender | Access “basic\_breakdown.jsp” and select the test inputs | Count:  Business: 1 100%  2014: 1 100%  Male: 1 100% | Count:  Business: 1 100%  2014: 1 100%  Male: 1 100% | Pass |
| 4 | Breakdown by Year, School & Gender | Test for mac-address not in demographics.csv | Date: 2014-03-01 13:30:00  Order: Gender | Access “basic\_breakdown.jsp” and select the test inputs | No Records found in this window | No Records found in this window | Pass |
| 5 | Breakdown by Year, School & Gender | Test for correctness of 15 minute window | Date: 2014-03-01 13:45:00  Order: gender | Access “basic\_breakdown.jsp” and select the test inputs | No Records found in this window | No Records found in this window | Pass |
| 6 | Breakdown by Year, School & Gender | Test for correct display of percentage value | Date: 2014-03-01 14:00:00  Order: gender, school, year | Access “basic\_breakdown.jsp” and select the test inputs | Count:  Male: 1 50%  Female: 1 50%  Business: 1 50%  SIS: 1 50%  2014: 1 50%  2013: 1 50% | Count:  Male: 1 50%  Female: 1 50%  Business: 1 50%  SIS: 1 50%  2014: 1 50%  2013: 1 50% | Pass |
| 7 | Breakdown by Year, School & Gender | Test for validation of erroneous order | Date: 2014-03-01  14:00:00  Order: Gender, Gender, Gender | Access “basic\_breakdown.jsp” and select the test inputs | “invalid order” | “invalid order” | Pass |
| 8 | Breakdown by Year, School & Gender | JSON test for validation of missing order | Date: 2014-03-01T14:00:00  Token: valid token | Post the following parameters to /json/basic-loc-report | {  "status": "error",  "messages": [  "missing order"  ] } | {  "status": "error",  "messages": [  "missing order"  ] } | Pass |
| 9 | Breakdown by Year, School & Gender | JSON test for validation of blank order | Date: 2014-03-01T14:00:00  Order=<blank>  Token: valid token | Post the following parameters to /json/basic-loc-report | {  "status": "error",  "messages": [  "blank order"  ] } | {  "status": "error",  "messages": [  "blank order"  ] } | Pass |
| 10 | Breakdown by Year, School & Gender | JSON test for validation of erroneous order (case sensitivity) | Date: 2014-03-01T14:00:00  Order=Gender  Token: valid token | Post the following parameters to /json/basic-loc-report | {  "status": "error",  "messages": [  "invalid order"  ] } | {  "status": "error",  "messages": [  "invalid order"  ] } | Pass |
| 11 | Breakdown by Year, School & Gender | JSON test for validation of erroneous order (special characters) | Date: 2014-03-01T14:00:00  Order=~  Token: valid token | Post the following parameters to /json/basic-loc-report | {  "status": "error",  "messages": [  "invalid order"  ] } | {  "status": "error",  "messages": [  "invalid order"  ] } | Pass |
| 12 | Breakdown by Year, School & Gender | JSON test for validation of erroneous order (separator with no values) | Date: 2014-03-01T14:00:00  Order=,,,  Token: valid token | Post the following parameters to /json/basic-loc-report | “{  "status": "error",  "messages": [  "invalid order"  ] } | {  "status": "error",  "messages": [  "invalid order"  ] } | Pass |
| 13 | Breakdown by Year, School & Gender | JSON test for validation of erroneous order (repeated order) | Date: 2014-03-01T14:00:00  Order=gender, gender  Token: valid token | Post the following parameters to /json/basic-loc-report | {  "status": "error",  "messages": [  "invalid order"  ] } | {  "status": "error",  "messages": [  "invalid order"  ] } | Pass |
| 14 | Breakdown by Year, School & Gender | JSON test for validation of erroneous order (repeated order) | Date: 2014-03-01T14:00:00  Order=gender,,  Toke : valid token | Post the following parameters to /json/basic-loc-report | {  "status": "error",  "messages": [  "invalid order"  ] } | {  "status": "error",  "messages": [  "invalid order"  ] } | Pass |

# **Basic Location Report Top-K Popular Places Test Cases**

**Assumption: test\_cases.zip is pre-loaded into the database with a valid logged in user accessing the various functionalities.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/Fail |
| 1 | Top-K Popular Places | Test for Ranking of tied-count | Date: 2014-03-01 14:50:00  K:1 | Access “basic\_popular\_places.jsp” and select the test inputs | Rank: 1  Count: 3  Semantic Place: SMUSISB1CORRIDORTOSOEN  Rank: 1  Count: 3  Semantic Place:  SMUSISL3LOBBYN | Rank: 1  Count: 3  Semantic Place: SMUSISB1CORRIDORTOSOEN  Rank: 1  Count: 3  Semantic Place:  SMUSISL3LOBBYN | Pass |
| 2 | Top-K Popular Places | Test for updates >= 9 minutes before chosen time | Date: 2014-03-01 14:40:00  K: 1 | Access “basic\_popular\_places.jsp” and select the test inputs | Rank: 1  Count: 1  Semantic Place: SMUSISL3SR3-4N | Rank: 1  Count: 1  Semantic Place: SMUSISL3SR3-4N | Pass |
| 3 | Top-K Popular Places | Test for users with more than one update during the 15 mins window before chosen time are only counted once at the latest update location | Date: 2014-03-01 04:25:00  K: 3 | Access “basic\_popular\_places.jsp” and select the test inputs | Rank: 1  Count: 1  Semantic Place: SMUSISB1CORRIDORTOSOEN | Rank: 1  Count: 1  Semantic Place: SMUSISB1CORRIDORTOSOEN | Pass |
| 4 | Top-K Popular Places | Test for repeated entries | Date: 2014-03-01 14:30:00  K: 1 | Access “basic\_popular\_places.jsp” and select the test inputs | Rank: 1  Count: 1  Semantic Place: SMUSISL4ACADOFFICEN | Rank: 1  Count: 1  Semantic Place: SMUSISL4ACADOFFICEN | Pass |
| 5 | Top-K Popular Places | Test for result to be sorted by semantic place | Date: 2014-03-25 14:35:00 K: 1 | Access “basic\_popular\_places.jsp” and select the test inputs | Rank: 1 Count: 2 Semantic Place: SMUSISL2SR2-2N  SMUSISL2STUDYAREA2N  SMUSISL3LOBBYN  SMUSISL4ACADOFFICEN | Rank: 1 Count: 2 Semantic Place: SMUSISL2SR2-2N  SMUSISL2STUDYAREA2N  SMUSISL3LOBBYN  SMUSISL4ACADOFFICEN | Pass |

# **Basic Location Report Top-K Companions Test Cases**

**Assumption: test\_cases.zip is pre-loaded into the database with a valid logged in user accessing the various functionalities.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/Fail |
| 1 | Top-K Companions | Test for companions if companion is not in the current window | Date: 2014-03-01 15:30:00  K: 3  mac-address:0000d893979225078884ae384365f2576dc26719 | Access “basic\_companions.jsp” and enter the test inputs | No records found during this timing. | No records found during this timing. | Pass |
| 2 | Top-K Companions | Test for appropriate 9 minute rule being applied (both are to be considered companions) | Date: 2014-03-01 15:45:00  K: 3  mac-address:000cdde3c3c41c87802981ce44092af464bba6ee | Access “basic\_companions.jsp” and enter the test inputs | Rank: 1  Companion: 0000d893979225078884ae384365f2576dc26719  Time-together: 539s | Rank: 1  Companion: 0000d893979225078884ae384365f2576dc26719  Time-together: 539s | Pass |
| 3 | Top-K Companions | Test for appropriate 9 minute rule being applied (both are not companions) | Date: 2014-03-01 16:00:00  K: 3  mac-address:000cdde3c3c41c87802981ce44092af464bba6ee | Access “basic\_companions.jsp” and enter the test inputs | No records found during this timing. | No records found during this timing. | Pass |
| 4 | Top-K Companions | Test for calculation of seconds if companion leaves | Date: 2014-03-01 16:15:00  K: 3  mac-address:000cdde3c3c41c87802981ce44092af464bba6ee | Access “basic\_companions.jsp” and enter the test inputs | Rank: 1  Companion: 0000d893979225078884ae384365f2576dc26719  Email: -  Time-together: 120s | Rank: 1  Companion: 0000d893979225078884ae384365f2576dc26719  Email: -  Time-together: 120s | Pass |
| 5 | Top-K Companions | Test for Ranking of tied-companions | Date: 2014-03-01 16:30:00  K: 3  mac-address:000cdde3c3c41c87802981ce44092af464bba6ee | Access “basic\_companions.jsp” and enter the test inputs | Rank: 1  mac-address: a555555555555555555555555555555555555555  companion: blase.WONG.2014@sis.smu.edu.sg,  mac-address:  0000d893979225078884ae384365f2576dc26719  companion: -  Time-together: 120s | Rank: 1  mac-address: a555555555555555555555555555555555555555  companion: blase.WONG.2014@sis.smu.edu.sg,  mac-address:  0000d893979225078884ae384365f2576dc26719  companion: -  Time-together: 120s | Pass |
| 6 | Top-K Companions | Test for tracking of valid companions across multiple locations | Date: 2014-03-01 16:30:00  K: 3  mac-address:0000d893979225078884ae384365f2576dc26719 | Access “basic\_companions.jsp” and enter the test inputs | Rank: 1  mac-address: a555555555555555555555555555555555555555  companion: blase.WONG.2014@sis.smu.edu.sg  Time-together: 660s  Rank: 2  mac-address:  000cdde3c3c41c87802981ce44092af464bba6ee  compaion: -  Time-together: 120s | Rank: 1  mac-address: a555555555555555555555555555555555555555  companion: blase.WONG.2014@sis.smu.edu.sg  Time-together: 660s  Rank: 2  mac-address:  000cdde3c3c41c87802981ce44092af464bba6ee  compaion: -  Time-together: 120s | Pass |
| 7 | Top-K Companions | Test for validation of mac-address  (non-hexadecimal) | Date: 2014-03-01 16:30:00  K: 3  mac-address:000@d893979225078884ae384365f2576dc26719 | Access “basic\_companions.jsp” and enter the test inputs | “invalid mac-address” | “invalid mac-address” | Pass |
| 8 | Top-K Companions | Test for validation of mac-address  (41 characters) | Date: 2014-03-01 16:30:00  K: 3  mac-address:000ood893979225078884ae384365f2576dc26719 | Access “basic\_companions.jsp” and enter the test inputs | “invalid mac-address” | “invalid mac-address” | Pass |
| 9 | Top-K Companions | Test for validation of mac-address  (empty) | Date: 2014-03-01 16:30:00  K: 3  mac-address: <empty> | Access “basic\_companions.jsp” and enter the test inputs | Display error message “Please fill out this field.” | Display error message “Please fill out this field.” | Pass |
| 10 | Top-K Companions | Test for validation of mac-address  (not found in location.csv) | Date: 2014-03-01 16:30:00  K: 3  mac-addres: 1234567890123456789012345678901234567890 | Access “basic\_companions.jsp” and enter the test inputs | No records found during this timing. | No records found during this timing. | Pass |
| 11 | Top-K Companions | JSON test for validation missing mac-address | Date:  2014-03-01T16:30:00  Token: valid token K: 3 | Post the following parameters to “/json/top-k-companions” | {  "status": "error",  "messages": [  "missing mac address"  ] } | {  "status": "error",  "messages": [  "missing mac address"  ] } | Pass |
| 12 | Top-K Companions | JSON test for validation blank mac-address | Date:  2014-03-01T16:30:00  Token: valid token K: 3  mac-address:-blank- | Post the following parameters to “/json/top-k-companions” | {  "status": "error",  "messages": [  "blank mac address"  ] } | {  "status": "error",  "messages": [  "blank mac address"  ] } | Pass |

# **Basic Location Report Top-K Next Places Test Cases**

**Assumption: test\_cases.zip is pre-loaded into the database with a valid logged in user accessing the various functionalities.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/Fail |
| 1 | Top-K Next Places | Test the identification of last semantic place (single updates) | Date:  2014-03-01  01:15:00  Location: SMUSISL1LOBBYN  K: 4 | Access “basic\_next\_place.jsp” and enter the test inputs | Rank: 1  Count: 2  Location:SMUSISL1WAITINGAREAN  Percentage: 50%  Rank: 2  Count: 1  Location: SMUSISB1NEAROSLN  Percentage: 25% | Rank: 1  Count: 2  Location:SMUSISL1WAITINGAREAN  Percentage: 50%  Rank: 2  Count: 1  Location: SMUSISB1NEAROSLN  Percentage: 25% | Pass |
| 2 | Top-K Next Places | Test the identification of last semantic place in next window (single updates) | Date:  2014-03-01  02:15:00  Location: SMUSISL1LOBBYN  K: 2 | Access “basic\_next\_place.jsp” and enter the test inputs | Rank: 1  Count: 1  Location: SMUSISL1WAITINGAREAN  Percentage: 33% | Rank: 1  Count: 1  Location: SMUSISL1WAITINGAREAN  Percentage: 33% | Pass |
| 3 | Top-K Next Places | JSON test for blank semantic place validation | Date:  2014-03-01  02:15:00  K: 3 | Access “/json/top-k-next-places” and enter the test inputs | {  "status": "error",  "messages": [  "missing origin"  ] } | {  "status": "error",  "messages": [  "missing origin"  ] } | Pass |
| 4 | Top-K Next Places | JSON test for missing semantic place validation | Date:  2014-03-01  02:15:00  K: 3  Origin: <blank> | Access “/json/top-k-next-places” and enter the test inputs | {  "status": "error",  "messages": [  "blank origin"  ] } | {  "status": "error",  "messages": [  "blank origin"  ] } | Pass |
| 5 | Top-K Next Places | JSON test for invalid semantic place validation | Date:  2014-03-01T02:15:00  K: 3  Origin: SMUUSISL | Access “/json/top-k-next-places” and enter the test inputs | {  "status": "error",  "messages": [  "invalid origin"  ]  } | {  "status": "error",  "messages": [  "invalid origin"  ] } | Pass |
| 6 | Top-K Next Places | JSON test for invalid semantic place validation | Date:  2014-03-01  02:15:00  K: 3  Origin: SMUUSISB | Access “/json/top-k-next-places” and enter the test inputs | {  "status": "error",  "messages": [  "invalid origin"  ]  } | {  "status": "error",  "messages": [  "invalid origin"  ]  } | Pass |
| 7 | Top-K Next Places | JSON test for invalid semantic place validation | Date:  2014-03-01  02:15:00  K: 3  Origin: SMUSISL6NONEXISTANT | Access “/json/top-k-next-places” and enter the test inputs | {  "status": "error",  "messages": [  "invalid origin"  ]  } | {  "status": "error",  "messages": [  "invalid origin"  ]  } | Pass |

# **Automatic Group Detection (AGD) Test Cases**

**Assumption: test\_cases.zip is pre-loaded into the database with a valid logged in user accessing the various functionalities.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/Fail |
| 1 | AGD | Test if two users spend 1 second less than 12 minutes at the same location id | Date:  2014-03-01 17:15:00 | Access “automatic\_group\_detection.jsp” and enter the test input | Total users found: 2  Total groups found: 0 | Total users found: 2  Total groups found: 0 | Pass |
| 2 | AGD | Test if two users spend 1 second no less than 12 minutes at the different location ids | Date:  2014-03-01 17:30:00 | Access “automatic\_group\_detection.jsp” and enter the test input | Total users found: 2  Total groups found: 1  Group 1:  Group Size: 2  Total time spent together:  840 sec  Location id:  1010100002(300sec)  1010100007(540sec)  Mac address:  1f9a94a334bc9d9b27c5e03cb82d185cbbd66d26  Email:  aaravamuthan.WONG.2014@business.smu.edu.sg  Mac address:  ab2ad3c30de6826f96110bd603278439ae8855ca  Email:  aaron.WONG.2014@business.smu.edu.sg | Total users found: 2  Total groups found: 1  Group 1:  Group Size: 2  Total time spent together:  840 sec  Location id:  1010100002(300sec)  1010100007(540sec)  Mac address:  1f9a94a334bc9d9b27c5e03cb82d185cbbd66d26  Email:  aaravamuthan.WONG.2014@business.smu.edu.sg  Mac address:  ab2ad3c30de6826f96110bd603278439ae8855ca  Email:  aaron.WONG.2014@business.smu.edu.sg | Pass |
| 3 | AGD | Test for the 15-min processing window inclusive property | Date:  2014-03-01 17:45:01 | Access “automatic\_group\_detection.jsp” and enter the test input | Total users found: 3  Total groups found: 1  Group 1:  Group Size: 2  Total time spent together:  899 sec  Location id:  1010100011(899sec)  Mac address:  b1dacddd7885b12ac24df17a18bad4e48097e424  Email:  aarya.WONG.2014@accountancy.smu.edu.sg  Mac address:  ab2ad3c30de6826f96110bd603278439ae8855ca  Email:  aaron.WONG.2014@business.smu.edu.sg | Total users found: 3  Total groups found: 1  Group 1:  Group Size: 2  Total time spent together:  899 sec  Location id:  1010100011(899sec)  Mac address:  b1dacddd7885b12ac24df17a18bad4e48097e424  Email:  aarya.WONG.2014@accountancy.smu.edu.sg  Mac address:  ab2ad3c30de6826f96110bd603278439ae8855ca  Email:  aaron.WONG.2014@business.smu.edu.sg | Pass |
| 4 | AGD | Test if the processing window span over two days | Date:  2014-03-03 00:01:00 | Access “automatic\_group\_detection.jsp” and enter the test input | Total users found: 2  Total groups found: 1  Group 1:  Group Size: 2  Total time spent together:  780 sec  Location id:  1010100015(780sec)  Mac address:  3e5a75a2332ab506a83b48c36d9a9407c0e6e0c4  Email:  abel.WONG.2014@sis.smu.edu.sg  Mac address:  9f5684541766dda2f4ba77149fd0b2ce9093355b  Email:  aarthi.WONG.2014@accountancy.smu.edu.sg | Total users found: 2  Total groups found: 1  Group 1:  Group Size: 2  Total time spent together:  780 sec  Location id:  1010100015(780sec)  Mac address:  3e5a75a2332ab506a83b48c36d9a9407c0e6e0c4  Email:  abel.WONG.2014@sis.smu.edu.sg  Mac address:  9f5684541766dda2f4ba77149fd0b2ce9093355b  Email:  aarthi.WONG.2014@accountancy.smu.edu.sg | Pass |
| 5 | AGD | Test if two users spend 12 minutes in the same semantic place, but at different location ids | Date:  2014-03-01 18:00:01 | Access “automatic\_group\_detection.jsp” and enter the test input | Total users found: 2  Total groups found: 0 | Total users found: 2  Total groups found: 0 | Pass |
| 6 | AGD | Test if A spends 12 minutes with B, B spends 12 minutes with C, and A spend 12 minutes with C but total time spent of this group is no less than 720 seconds | Date:  2014-03-01 18:30:01 | Access “automatic\_group\_detection.jsp” and enter the test input | Total users found: 3  Total groups found: 1  Group 1:  Group Size: 3  Total time spent together:  720 sec  Location id:  1010100025(720sec)  Mac address:  8e360667dac633cd0d6d7078a5536a1dcb239ae1  Email:  ace.2014@sis.smu.edu.sg  Mac address:  2175ba4cda5cea24f4f4712b9eb31381afb16853  Email:  ada.WONG.2014@sis.smu.edu.sg  Mac address:  59d03b0a9f03fcc6b8836bb0aa5689cee31c8a9d  Email:  adah.WONG.2014@sis.smu.edu.sg | Total users found: 3  Total groups found: 1  Group 1:  Group Size: 3  Total time spent together:  720 sec  Location id:  1010100025(720sec)  Mac address:  8e360667dac633cd0d6d7078a5536a1dcb239ae1  Email:  ace.2014@sis.smu.edu.sg  Mac address:  2175ba4cda5cea24f4f4712b9eb31381afb16853  Email:  ada.WONG.2014@sis.smu.edu.sg  Mac address:  59d03b0a9f03fcc6b8836bb0aa5689cee31c8a9d  Email:  adah.WONG.2014@sis.smu.edu.sg | Pass |
| 7 | AGD | Test if A spends 12 minutes with B, B spends 12 minutes with C, and A spend 12 minutes with C but total time spent of this group is less than 720 seconds | Date:  2014-03-01 18:45:01 | Access “automatic\_group\_detection.jsp” and enter the test input | Total users found: 5  Total groups found: 0 | Total users found: 5  Total groups found: 0 | Pass |
| 8 | AGD | Test if two users are at the same location id at the beginning of process window, but no update after that | Date:  2014-03-01 19:00:00 | Access “automatic\_group\_detection.jsp” and enter the test input | Total users found: 2  Total groups found: 0 | Total users found: 2  Total groups found: 0 | Pass |
| 9 | AGD | Test if two users spend 5 minutes at the same location id , but no update after that | Date:  2014-03-01 23:15:00 | Access “automatic\_group\_detection.jsp” and enter the test input | Total users found: 2  Total groups found: 1  Group 1:  Group Size: 2  Total time spent together:  840 sec  Location id:  1010110021(840sec)  Mac address:  8886c062c08d4bd9bad621cfd2e4734a6a825ac5  Email:  alma.WONG.2014@economics.smu.edu.sg  Mac address:  1b2d1b3c4ecb66f5258c84a5c5d6ec2401e3a256  Email:  aloysius.WONG.2014@economics.smu.edu.sg | Total users found: 2  Total groups found: 1  Group 1:  Group Size: 2  Total time spent together:  840 sec  Location id:  1010110021(840sec)  Mac address:  8886c062c08d4bd9bad621cfd2e4734a6a825ac5  Email:  alma.WONG.2014@economics.smu.edu.sg  Mac address:  1b2d1b3c4ecb66f5258c84a5c5d6ec2401e3a256  Email:  aloysius.WONG.2014@economics.smu.edu.sg | Pass |
| 10 | AGD | Test if A,B,C spend 12 mins together at the same location id, but C leaves and A,B spend another 2 mins together | Date:  2014-03-01 23:30:00 | Access “automatic\_group\_detection.jsp” and enter the test input | Total users found: 3  Total groups found: 1  Group 1:  Group Size: 3  Total time spent together:  720 sec  Location id:  1010110038(720sec)  Mac address:  f112ac6e37083308ca297de97fa459adf621e60d  Email:  bertram.WONG.2014@sis.smu.edu.sg  Mac address:  d65ed5e3fbfdcf12450a79c9026794427f98d8e2  Email:  bernadine.WONG.2014@sis.smu.edu.sg  Mac address:  a0083d27353c0fe01d7c7b2cbeb34b8be02ca5bc  Email:  bede.WONG.2014@sis.smu.edu.sg | Total users found: 3  Total groups found: 1  Group 1:  Group Size: 3  Total time spent together:  720 sec  Location id:  1010110038(720sec)  Mac address:  f112ac6e37083308ca297de97fa459adf621e60d  Email:  bertram.WONG.2014@sis.smu.edu.sg  Mac address:  d65ed5e3fbfdcf12450a79c9026794427f98d8e2  Email:  bernadine.WONG.2014@sis.smu.edu.sg  Mac address:  a0083d27353c0fe01d7c7b2cbeb34b8be02ca5bc  Email:  bede.WONG.2014@sis.smu.edu.sg | Pass |
| 11 | AGD | Test group with member joining and leaving (wiki tricky case No.5) | Date:  2014-03-01 23:45:00 | Access “automatic\_group\_detection.jsp” and enter the test input | Total users found: 4  Total groups found: 2  Group 1:  Group Size: 3  Total time spent together:  720 sec  Location id:  1010300108(720sec)  Mac address:  636bc967f7cc6cdfe6fd80eb994cd9edcb863c7d  Email:  benedict.WONG.2014@sis.smu.edu.sg  Mac address:  1eeca03d1958140fc722cf873f464d6475e68e4e  Email:  benjamin2.WONG.2014@sis.smu.edu.sg  Mac address:  59e49812cde1c13597735c6986de55fe8e02bd5c  Email:  austin.WONG.2013@sis.smu.edu.sg  Group 2:  Group Size: 3  Total time spent together:  720sec  Location id:  Location id:  1010300108(720sec)  Mac address:  636bc967f7cc6cdfe6fd80eb994cd9edcb863c7d  Email:  benedict.WONG.2014@sis.smu.edu.sg  Mac address:  1eeca03d1958140fc722cf873f464d6475e68e4e  Email:  benjamin2.WONG.2014@sis.smu.edu.sg  Mac address:  92ebdef7ed26bc3a19d5c945c9b9daeefaea8e6d  Email:  augusta.WONG.2013@sis.smu.edu.sg | Total users found: 4  Total groups found: 2  Group 1:  Group Size: 3  Total time spent together:  720 sec  Location id:  1010300108(720sec)  Mac address:  636bc967f7cc6cdfe6fd80eb994cd9edcb863c7d  Email:  benedict.WONG.2014@sis.smu.edu.sg  Mac address:  1eeca03d1958140fc722cf873f464d6475e68e4e  Email:  benjamin2.WONG.2014@sis.smu.edu.sg  Mac address:  59e49812cde1c13597735c6986de55fe8e02bd5c  Email:  austin.WONG.2013@sis.smu.edu.sg  Group 2:  Group Size: 3  Total time spent together:  720sec  Location id:  Location id:  1010300108(720sec)  Mac address:  636bc967f7cc6cdfe6fd80eb994cd9edcb863c7d  Email:  benedict.WONG.2014@sis.smu.edu.sg  Mac address:  1eeca03d1958140fc722cf873f464d6475e68e4e  Email:  benjamin2.WONG.2014@sis.smu.edu.sg  Mac address:  92ebdef7ed26bc3a19d5c945c9b9daeefaea8e6d  Email:  augusta.WONG.2013@sis.smu.edu.sg | Pass |

# **Group-aware Report Popular Places Test Cases**

**Assumption: test\_cases.zip is pre-loaded into the database with a valid logged in user accessing the various functionalities.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/Fail |
| 1 | Group Top-K Popular Places | Test for correctness of group detection | Date: 2014-03-02 15:15:00  K: 3 | Access “group\_popular\_place.jsp” with the test inputs | Rank: 1  Count: 2  Location:  SMUSISL1LOBBYN  Rank: 2  Count: 1  SMUSISL1WAITINGAREAN | Rank: 1  Count: 2  Location:  SMUSISL1LOBBYN  Rank: 2  Count: 1  SMUSISL1WAITINGAREAN | Pass |
| 2 | Group Top-K Popular Places | Test for overlapping ranks and different location id | Date: 2014-03-02 15:30:00  K: 3 | Access “group\_popular\_place.jsp” with the test inputs | Rank: 1  Count: 3  Location:  SMUSISL1RECEPTIONN  Rank: 2  Count: 1  SMUSISB1CORRIDORTOSOEN  SMUSISB1LIFTLOBBYN, SMUSISB1STUDYAREAN | Rank: 1  Count: 3  Location:  SMUSISL1RECEPTIONN  Rank: 2  Count: 1  SMUSISB1CORRIDORTOSOEN  SMUSISB1LIFTLOBBYN, SMUSISB1STUDYAREAN | Pass |
| 3 | Group Top-K Popular Places | Test for aggregation of semantic place through different location id | Date: 2014-03-02 15:45:00  K: 3 | Access “group\_popular\_place.jsp” with the test inputs | Rank: 1  Count: 4  Location:  SMUSISB1NEAROSLN | Rank: 1  Count: 4  Location:  SMUSISB1NEAROSLN | Pass |

# **Group-aware Report Top-K Next Places Test Cases**

**Assumption: test\_cases.zip is pre-loaded into the database with a valid logged in user accessing the various functionalities.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/Fail |
| 1 | Group Top-K Next Places | Check whether groups that stay in the same selected place are detected in the next window | Date: 2014-07-24  02:15:00  K: 2  Location: SMUSISL1LOBBY | Access “group\_next\_places.jsp” with the test inputs | Rank : 1  Semantic Place :  SMUSISL1LOBBY  Num-groups :1  % who visited next place : 100% | Rank : 1  Semantic Place :  SMUSISL1LOBBY  Num-groups :1  % who visited next place : 100% | Pass |
| 2 | Group Top-K Next Places | Test that the only the last semantic place in the next window is displayed if there are more than 1 valid (>=300 sec) location updates | Date: 2014-07-26  02:15:00  K: 2  Location: SMUSISL1LOBBY | Access “group\_next\_places.jsp” with the test inputs | Rank : 1  Semantic Place: SMUSISL2SR2-1N  Num-groups : 1  % who visited next place : 100% | Rank : 1  Semantic Place: SMUSISL2SR2-1N  Num-groups : 1  % who visited next place : 100% | Pass |
| 3 | Group Top-K Next Places | Test for the incorrect presence of subgroups in the next location | Date: 2014-07-27  02:15:00  K: 2  Location: SMUSISL1LOBBY | Access “group\_next\_places.jsp” with the test inputs | Rank : 1  Semantic Place: SMUSISL1LOBBY  Num-groups : 1  % who visited next place : 100% | Rank : 1  Semantic Place: SMUSISL1LOBBY  Num-groups : 1  % who visited next place : 100% | Pass |
| 4 | Group Top-K Next Places | Test that the group does not exist if the group's last location in the previous window is not the selected window | Date : 2014-07-29 02:15:00  K : 3  Location :  SMUSISL1LOBBY | Access “group\_next\_places.jsp” with the test inputs | No groups detected | There are no records for this timing. | Pass |
| 5 | Group Top-K Next Places | Test that the group's last location in the next window is >=5 minutes | Date : 2014-07-30 02:15:00  K : 3  Location :  SMUSISL1LOBBY | Access “group\_next\_places.jsp” with the test inputs | Rank : 1  Semantic Place: SMUSISB1NEAROSLN  Num-groups : 1  % who visited next place : 100% | Rank : 1  Semantic Place: SMUSISB1NEAROSLN  Num-groups : 1  % who visited next place : 100% | Pass |

# **Generic Test Cases**

**Assumption: test\_cases.zip is pre-loaded into the database with a valid logged in user accessing the various functionalities.**

**This segment covers the generic test cases common throughout multiple functionalities for dual web services.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/Fail |
| 1 | JSON Web Service | Test for invalid year | Date:  201-03-01T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=201-03-22T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 2 | JSON Web Service | Test for invalid year | Date:  abc-03-01T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=abc-03-22T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 3 | JSON Web Service | Test for invalid year | Date:  a12b-03-01T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=a12b-03-22T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 4 | JSON Web Service | Test for invalid year | Date:  20145-03-01T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=20145-03-22T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 5 | JSON Web Service | Test for missing year | Date:  -03-01T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=-03-22T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 6 | JSON Web Service | Test for invalid month | Date:  2014-3-01T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-3-22T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 7 | JSON Web Service | Test for invalid month | Date:  2014-0a-01T16:30:00  Token:<valid token> | Access “/json/<filename>?<validToken>&date=2014-0a-22T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 8 | JSON Web Service | Test for invalid month | Date:  2014-a-01T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-a-22T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 9 | JSON Web Service | Test for invalid month (missing month) | Date:  2014--01T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014--22T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 10 | JSON Web Service | Test for invalid month | Date:  2014-13-01T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-13-01T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 11 | JSON Web Service | Test for invalid month | Date:  2014-132-01T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-132-01T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 12 | JSON Web Service | Test for invalid day | Date:  2014-12-a1T16:30:00  Token:<valid token> | Access “/json/<filename>?<validToken>&date=2014-12-a1T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 13 | JSON Web Service | Test for invalid day | Date:  2014-12-1T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-1T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 14 | JSON Web Service | Test for invalid day (missing day) | Date:  2014-12-T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 15 | JSON Web Service | Test for invalid day | Date:  2014-12-34T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-34T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 16 | JSON Web Service | Test for invalid hour | Date:  2014-12-12T32:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-12T32:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 17 | JSON Web Service | Test for invalid hour (Negative hour) | Date:  2014-12-12T-12:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-12T-12:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 18 | JSON Web Service | Test for invalid hour | Date:  2014-12-12Tab:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-12Tab:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 19 | JSON Web Service | Test for blank hour | Date:  2014-12-12T:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-12T:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 20 | JSON Web Service | Test for invalid minutes | Date:  2014-12-12T12:65:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-12T12:65:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 21 | JSON Web Service | Test for invalid minutes (Negative minutes) | Date:  2014-12-12T12:-12:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-12T12:-12:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 22 | JSON Web Service | Test for invalid minutes | Date:  2014-12-12T12:abc:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-12T12:abc:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 23 | JSON Web Service | Test for blank minutes | Date:  2014-12-12T12::00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-12T12::00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 24 | JSON Web Service | Test for blank date | Date: <BLANK>  Token: <valid token> | Access “/json/<filename>?<validToken>&date=” | {  "status": "error",  "messages": [  "blank date"  ] } | {  "status": "error",  "messages": [  "blank date"  ] } | Pass |
| 25 | JSON Web Service | Test for missing date | Date: <EMPTY>  Token: <valid token> | Access “/json/<filename>?<validToken>&” | {  "status": "error",  "messages": [  "missing date"  ] } | {  "status": "error",  "messages": [  "missing date"  ] } | Pass |
| 26 | JSON Web Service | Test for invalid date | Date: abc  Token: <valid token> | Access “/json/<filename>?<validToken>&date=abc” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 27 | JSON Web Service | Test for invalid date | Date: 123  Token: <valid token> | Access “/json/<filename>?<validToken>&date=123” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 28 | JSON Web Service | Test for invalid date (Using “t”) | Date:  2014-12-12t16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-12t16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 29 | JSON Web Service | Test for invalid date (Missing T) | Date:  2014-12-1216:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-1216:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 30 | JSON Web Service | Test for invalid date (Wrong symbol) | Date:  2014/12/12T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014/12/12T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 31 | JSON Web Service | Test for invalid date (Missing in between symbol) | Date:  20141212T16:30:00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=20141212T16:30:00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 32 | JSON Web Service | Test for invalid date | Date:  2014-12-12T16/30-00  Token: <valid token> | Access “/json/<filename>?<validToken>&date=2014-12-12T16/30-00” | {  "status": "error",  "messages": [  "invalid date"  ] } | {  "status": "error",  "messages": [  "invalid date"  ] } | Pass |
| 33 | JSON Web Service | Test K Value | Date: 2014-01-01T12:00:00  Token: <valid token>  K = 0 | Access “/json/<filename>?<validToken>&date=2014-01-01T12:00:00&k=0” | {  "status": "error",  "messages": [  "invalid k"  ] } | {  "status": "error",  "messages": [  "invalid k"  ] } | Pass |
| 34 | JSON Web Service | Test K Value | Date: 2014-01-01T12:00:00  Token: <valid token>  K = -1 | Access “/json/<filename>?<validToken>&date=2014-01-01T12:00:00&k=-1” | {  "status": "error",  "messages": [  "invalid k"  ] } | {  "status": "error",  "messages": [  "invalid token"  ] } | Pass |
| 35 | JSON Web Service | Test K Value | Date: 2014-01-01T12:00:00  Token: <valid token>  K = 11 | Access “/json/<filename>?<validToken>&date=2014-01-01T12:00:00&k=11” | {  "status": "error",  "messages": [  "invalid k"  ] } | {  "status": "error",  "messages": [  "invalid token"  ] } | Pass |
| 36 | JSON Web Service | Test K Value | Date: 2014-01-01T12:00:00  Token: <valid token>  K = abc | Access “/json/<filename>?<validToken>&date=2014-01-01T12:00:00&k=abc” | {  "status": "error",  "messages": [  "invalid k"  ] } | {  "status": "error",  "messages": [  "invalid token"  ] } | Pass |
| 37 | JSON Web Service | Test Token | Date: 2014-01-01T12:00:00  Token: <EMPTY>  K = 1 | Access “/json/<filename>?date=2014-01-01T12:00:00&k=1” | {  "status": "error",  "messages": [  "missing token"  ] } | {  "status": "error",  "messages": [  "missing token"  ] } | Pass |
| 38 | JSON Web Service | Test Token | Date: 2014-01-01T12:00:00  Token: <BLANK>  K = 1 | Access “/json/<filename>?token=&date=2014-01-01T12:00:00&k=1” | {  "status": "error",  "messages": [  "blank token"  ]} | {  "status": "error",  "messages": [  "blank token"  ]} | Pass |
| 39 | JSON Web Service | Test Token | Date: 2014-01-01T12:00:00  Token: <Partial-Token>  K = 1 | Access “/json/<filename>?token=<PARTIAL-TOKEN>&date=2014-01-01T12:00:00&k=1” | {  "status": "error",  "messages": [  "invalid token"  ] } | {  "status": "error",  "messages": [  "invalid token"  ] } | Pass |
| 40 | JSON Web Service | Test Token | Date: 2014-01-01T12:00:00  Token: abc  K = 1 | Access “/json/<filename>?token=abc&date=2014-01-01T12:00:00&k=1” | {  "status": "error",  "messages": [  "invalid token"  ] } | {  "status": "error",  "messages": [  "invalid token"  ] } | Pass |
| 41 | JSON Web Service | Test Token | Date: 2014-01-01T12:00:00  Token: 123  K = 1 | Access “/json/<filename>?token=123&date=2014-01-01T12:00:00&k=1” | {  "status": "error",  "messages": [  "invalid token"  ] } | {  "status": "error",  "messages": [  "invalid token"  ] } | Pass |

# **UI Generic Test Cases**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/Fail |
| 1 | User Interface | Test for invalid year | Date:  201-03-22 16:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 2 | User Interface | Test for invalid year | Date:  abc-03-22 16:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 3 | User Interface | Test for invalid year | Date:  a12b-03-22 16:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 4 | User Interface | Test for missing year | Date:  -03-22 16:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 5 | User Interface | Test for invalid month | Date:  2014-0a-22 16:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 6 | User Interface | Test for invalid month | Date:  2014-a-22 16:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 7 | User Interface | Test for invalid month | Date:  2014-13-12 16:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 8 | User Interface | Test for invalid month | Date:  2014-132-01 16:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 9 | User Interface | Test for missing month | Date:  2014--12 16:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 10 | User Interface | Test for invalid day | Date:  2014-12-34 16:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 11 | User Interface | Test for invalid day | Date:  2014-12-a1 16:30:00 | Access “<filename>” and enter the test inputs | Display the result of the date: 2014-12-01 16:30:00 | Display the result of the date: 2014-12-01 16:30:00 | Pass |
| 12 | User Interface | Test for missing day | Date:  2014-12- 16:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 13 | User Interface | Test for invalid hour | Date:  2014-12-12 32:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 14 | User Interface | Test for invalid hour (Negative hour) | Date:  2014-12-12 -12:30:00 | Access “<filename>” and enter the test inputs | Display the result of the date: 2014-12-01 12:30:00 | Display the result of the date: 2014-12-01 12:30:00 | Pass |
| 15 | User Interface | Test for invalid hour | Date:  2014-12-12 ab:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 16 | User Interface | Test for blank hour | Date:  2014-12-12T:30:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 17 | User Interface | Test for invalid minutes | Date:  2014-12-12 12:65:00 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 18 | User Interface | Test for invalid minutes | Date:  2014-12-12 12:-12:00 | Access “<filename>” and enter the test inputs | 2014-12-12 12:12:00 | 2014-12-12 12:12:00 | Pass |
| 19 | User Interface | Test for invalid minutes | Date:  2014-12-12 12:abc:00 | Access “<filename>” and enter the test inputs | 2014-12-12 12:00:00 | 2014-12-12 12:00:00 | Pass |
| 20 | User Interface | Test for blank minutes | Date:  2014-12-12T12::00 | Access “<filename>” and enter the test inputs | 2014-12-12 12:00:00 | 2014-12-12 12:00:00 | Pass |
| 21 | User Interface | Test for invalid seconds | Date:  2014-12-12 12:00:66 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 22 | User Interface | Test for invalid seconds (Negative minutes) | Date:  2014-12-12 12:12:-20 | Access “<filename>” and enter the test inputs | 2014-12-12 12:12:20 | 2014-12-12 12:12:20 | Pass |
| 23 | User Interface | Test for invalid seconds | Date:  2014-12-12 12:00:abc | Access “<filename>” and enter the test inputs | 2014-12-12 12:00:00 | 2014-12-12 12:00:00 | Pass |
| 24 | User Interface | Test for blank seconds | Date:  2014-12-12 12:00: | Access “<filename>” and enter the test inputs | 2014-12-12 12:00:00 | 2014-12-12 12:00:00 | Pass |
| 25 | User Interface | Test for invalid date | Date:  2014/12-12 12:00:00 | Access “<filename>” and enter the test inputs | 2014-12-12 00:00:00 | 2014-12-12 00:00:00 | Pass |
| 26 | User Interface | Test for invalid date | Date:  2014-12-12 12:00/00 | Access “<filename>” and enter the test inputs | 2014-12-12 12:00:00 | 2014-12-12 12:00:00 | Pass |
| 27 | User Interface | Test for invalid date (No symbol) | Date:  20141212 120000 | Access “<filename>” and enter the test inputs | 2014-12-12 12:00:00 | 2014-12-12 12:00:00 | Pass |
| 28 | User Interface | Test for blank date | Date: <BLANK> | Access “<filename>” and enter the test inputs | Prompt to fill in for this field | Prompt to fill in for this field | Pass |
| 29 | User Interface | Test for invalid date | Date: abcq234 | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |
| 30 | User Interface | Test for invalid date | Date: @#$#^%$& | Access “<filename>” and enter the test inputs | invalid date | invalid date | Pass |