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| Document name | Test case scenarios for Sprint 2, Release 1 |
| Project name | Smart City |
| Reference document(s) | StoryCards\_Smart\_City\_TeamPhoenix.pptx  Release and Sprint Plan complete.docx |
| Created by | Team Phoenix - 63 |
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**Story 10: Admin creation**

- Test that an administrator can access admin page (Django admin page)

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S10\_TC1 | a.) The machine should be configured to run the Smart City system  b.) Compatible web browser should be pre-installed before testing (e.g. Chrome)  c.) Have access to an administrator account type:  -admin  -password123 | 1. Run the Smart City project on the home server 2. Open any web browser (preferably Google Chrome or Mozilla Firefox) 3. Enter the URL <http://49.176.104.200/> (or appropriate IP) in the address bar of the web browser 4. Log in with an administrator account type using the following details: - Username: admin - Password: password123 | - Admin is navigated to the Django administration (separate) page.  - This page contains the following menu buttons:  - Accounts (add/ change)  - Authentication and authorization (add/ change)  - View site  - Change password  - Log out | - Admin navigated to Django page  - All menu buttons are displayed properly | Pass |

- Test that an administrator can create administrator accounts

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S10\_TC2 | a.) Logged into Smart City system as an ‘admin’ account  b.) Have access to Django’s administrator home screen | 1. From Django’s administrator home screen, click on ‘Users’ under ‘Authentication and Authorization’ 2. From the user management page, click on ‘Add User +’ at the top right 3. Fill out all mandatory fields except for ‘UserTypeID’ and click ‘submit’ 4. Fill out all mandatory fields again, but this time with all fields completed in the form (select any UserTypeID) 5. Click on created account name 6. Change permission from ‘Active’ to ‘Staff status’ and then press ‘Save’ 7. Logout from current admin account and login to new admin account | - An account is created successfully. - If not, an error message is displayed.  - The newly created account has admin permissions. | - Error message displayed first attempt  - Account successfully created second attempt  - Staff permissions working | Pass |

**Story 15: Tourist account**

- Test that Tourist account can view relevant city information

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status | |
| SC\_S15\_TC1 | a.) Smart City system is launched on web browser  b.) Have access to ‘Tourist’ user account as below:  - tourist  - password123 | 1. Log in with a ‘Tourist’ account type using the following details: - Username: tourist - Password: password123 2. Scroll down the user page and view the displayed information | - Generic city information is displayed on the User page  - Relevant information such as ‘Hotels’ is displayed. | -Appropriate information is displayed for tourist account | | Pass |

- Test that Tourist account can view information relevant to other user types

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S15\_TC2 | a.) Logged in Smart City system with a ‘Tourist’ account | 1. Click the appropriate city using the drop down menu while on the user page 2. Enter ‘Industries’ in the search bar and click search 3. Click on the ‘Industry’ icon on the results page 4. Check if maps correctly locate ‘Industries’ with the chosen city. 5. Repeat steps 1-4 by going through each search keyword not relevant to ‘Tourist’ | - City information relevant to other user types is displayed correctly.  - Information is correct based on city location chosen. | - Other information is displayed for tourist account | Pass |

**Story 16: Student account**

- Test that Student account can view relevant city information

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S16\_TC1 | a.) Smart City system is launched on web browser  b.) Have access to ‘Student’ user account as below:  - student  - password123 | 1. Log in with a ‘Student’ account type using the following details: - Username: student - Password: password123 2. Scroll down the user page and view the displayed information | - Generic city information is displayed on the User page  - Relevant information such as ‘Colleges’ and ‘Libraries’ is displayed. | -Appropriate information is displayed for student account | Pass |

- Test that Student account can view information relevant to other user types

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S16\_TC2 | a.) Logged in Smart City system with a ‘Student’ account | 1. Click the appropriate city using the drop down menu while on the user page 2. Enter ‘Hotels’ in the search bar and click search 3. Click on the ‘Hotels’ icon on the results page 4. Check if maps correctly locates ‘Hotels’ with the chosen city. 5. Repeat steps 1-4 by going through each search keyword not relevant to ‘Student’ | - City information relevant to other user types is displayed correctly.  - Information is correct based on city location chosen. | - Other information is displayed for student account | Pass |

**Story 17: Business account**

- Test that Businessman account can view relevant city information

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S17\_TC1 | a.) Smart City system is launched on web browser  b.) Have access to ‘Businessman’ user account as below:  - businessman  - password123 | 1. Log in with a ‘Businessman’ account type using the following details: - Username: businessman - Password: password123 2. Scroll down the user page and view the displayed information | - Generic city information is displayed on the User page  - Relevant information such as ‘Industries’ and ‘Hotels’ is displayed. | -Appropriate information is displayed for businessman account | Pass |

- Test that Businessman account can view information relevant to other user types

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S17\_TC2 | a.) Logged in Smart City system with a ‘Student’ account | 1. Click the appropriate city using the drop down menu while on the user page 2. Enter ‘Colleges’ in the search bar and click search 3. Click on the ‘Colleges’ icon on the results page 4. Check if maps correctly locate ‘Colleges’ with the chosen city. 5. Repeat steps 1-4 by going through each search keyword not relevant to ‘Businessman’ | - City information relevant to other user types is displayed correctly.  - Information is correct based on city location chosen. | - Other information is displayed for businessman account | Pass |

**Story 03: Viewing additional information**

- Test information accessibility while logged out

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S03\_TC1 | a.) Smart City system is launched on web browser  b.) Have access to all three user account types:  -student/tourist/businessman  -password123 | 1. Log in with a ‘Student’ account type using the following details: - Username: student - Password: password123 2. Scroll down the user page and view the displayed information 3. Scroll back up and enter ‘hotels’ and click search 4. Click on the ‘hotels’ icon on the results page 5. Copy the page URL for the current page 6. Log out and paste the address into the URL bar and press enter | - Page should not accessible while account is logged out, due to absence of access privileges | - Page is not displayed while logged out | Pass |

- Test that city information relevant to other user types is displayed (while logged in)

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S03\_TC1 | a.) Smart City system is launched on web browser  b.) Have access to all three user account types:  -student/tourist/businessman  -password123 | 1. Log in with a ‘Student’ account type using the following details: - Username: student - Password: password123 2. View displayed information, then enter ‘industries’ and click search 3. Click on the ‘industries’ icon on the results page 4. Confirm that map locations are correct 5. Go back and type ‘Admin’ and click search 6. Repeat steps 3-6 for all remaining search keywords 7. Log out and log back in using ‘Tourist’ and ‘Businessman’ account type and repeat steps 3-7 | - City information relevant to other user types is displayed correctly  - Each user type is able to search for information while logged in  - Each user type is unable to search for ‘Administrator’ exclusive information | - Search results produce correct information  - Search function works  - Admin information not available | Pass |

**Story 11: Segmented data**

- Test that city information is separated

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S11\_TC1 | a.) Smart City system is launched on web browser  b.) Have access to an administrator account type:  -admin  -password123 | 1. Log in with an administrator account type using the following details: - Username: admin - Password: password123 2. Check that there are 4 types of data sets under account 3. Click ‘Citys’ under Accounts and verify if data is segmented based on each city name 4. Press back, and click ‘Data types’ under Accounts, and verify if data is segmented into three user types | - Generic city data is separated from other data sets  - Tourist data set contains ‘Hotels’  - Student data set contains ‘Colleges’ and ‘Libraries’  - Businessman data set contains ‘Industries’ and ‘Hotels’  - Each data set has a unique identifier | - Each data set is segmented from the generic city data set | Pass |

**Story 14: Map updates**

-Test that only an ‘admin’ account can modify map data

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S14\_TC1 | a.) Smart City system is launched on web browser  b.) Have access to an administrator account type:  -admin  -password123  c.) Have access to all three user account types:  student/tourist/businessman  -password123 | 1. Log in with an administrator account type using the following details: - Username: admin - Password: password123 2. Copy URL link to django administration page 3. Log back out, and log back in using a normal account 4. Paste the URL link and press enter | - An error message is displayed  - Only ‘Admin’ user account is allowed to upload/ edit map data  - ‘Tourist’, ‘Student’ & ‘Businessman’ are unable to upload/ edit map data | - Error message saying that “‘you are not authorized’ is displayed  - Admin can edit map data, whilst normal users cannot | Pass |

-Test that admin can update individual map locations using special tools

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S14\_TC2 | a.) Smart City system is launched on web browser  b.) Have access to an administrator account type:  -admin  -password123  c.) Have access to all three user account types:  student/tourist/businessman  -password123 | 1. Log in with an administrator account type using the following details: - Username: admin - Password: password123 2. Click ‘City infos’ under Accounts 3. Press ‘Add City Info +’ 4. Select CityID as ‘Brisbane’ 5. Select UserTypeID as ‘Student’ 6. Enter CityInfoName textbox with ‘University’ 7. Press SAVE at the bottom right corner 8. Log out, and log back in using a normal account 9. Preview the map page, and check for updated map location | - ‘Admin’ user account is able to upload/ edit map data for each individual location  - User interface tool for editing map data is functional  - Updated map data is visible by normal user account | - Individual map locations successfully uploaded/ edited  - Interface tool functions as required  - Map data is displayed | Pass |

**Story 18: System scalability**

- Test that user is able to select a different city

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S18\_TC1 | a.) Smart City system is launched on web browser  b.) Have access to all three user account types:  -student/tourist/businessman  -password123 | 1. Log in with an ‘Student’ account type using the following details: - Username: student - Password: password123 2. Ensure that the drop down menu at the top left displays the default city 3. Ensure that the drop down menu is functional by clicking on the menu 4. Ensure that item is highlighted on selection 5. Select a different city (e.g. Sydney) and click on it | - Drop down menu for city selection is displayed with default city  - Drop down menu is functional  - Drop down menu refreshes the page once a different city has been selected  - Search results correlate with chosen city (unique identifier) | - Drop down menu is displayed and functional  - When an option has been selected, page refreshes  - Search is functional | Pass |

**Story 22: Search**

- Test that the user is able to search for specific locations

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| Test case ID | Precondition | Steps | Expected result | Actual result | Test status |
| SC\_S22\_TC1 | a.) Smart City system is launched on web browser  b.) Have access to all three user account types:  -student/tourist/businessman  -password123 | 1. Log in with an ‘Student’ account type using the following details: - Username: student - Password: password123 2. Select the ‘Brisbane’ from the dropdown menu 3. Enter ‘College’ in the search field 4. Click on the result item ‘Colleges’ 5. Preview the map location for all colleges 6. Go back to the main page, and repeat steps 2-5 for each database location type 7. Log back out, and repeat these steps for ‘Tourist’ and ‘Businessman’ accounts | - User is displayed with appropriate search results  - Search results are displayed in the form of plotted locations on a map  - Each user can search for specific locations not related to their account type (e.g. Student can search for hotels) | - Relevant search results are displayed in the form of locations  - User can only search from a limited range of locations (not fully functional yet) | Pass |