# Test Template

This Test Template is created to assist all groups to record the functional test results. It acts as a guideline and its contents can be modified to suit your group’s input and results. The exceptions are the table format and the fields in Grey colour.

Please contact our group (Impact) **via Team Leader (Yi Liang) [h/p no.: +6019-2865803] using WhatsApp** if there are any issues with this template, thank you.

Procedure:

1. Create your own Google Docs/MSWord Web.
2. Use this Test Template.
3. Send a link of your Team’s Test Results to my team.

F001 - Galaxy

F002 - All

F003 - TBD

F004 - All who do web visualization

F005 - TBD

F006 - Galaxy

F007 - Galaxy

F008 - All

F009 - All

F010 - TBD

F011 - TBD

F012 - TBD

F013 - All who do mobile visualization

# F001 Import Data

| Test Case ID | | TC-01-001 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F001 | | | | |
| Objective | | Main Flow | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click “Import Data” option | | Presents a selection of data sources. |  | |  |  |
| Select data source | | Prompts the actor for file or API details. |  | |  |  |
| Provide supported File or valid API details | | Imports the data and notifies the actor. |  | |  |  |

# 

| Test Case ID | | TC-01-002 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F001 | | | | |
| Objective | | Exception Flow: @Step 8: The actor provides an unsupported file format. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Provide unsupported File format | | Display error message. |  | |  |  |

| Test Case ID | | TC-01-003 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F001 | | | | |
| Objective | | Exception Flow: @Step 8: The actor provides invalid API details. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Provide invalid API details | | Display error message. |  | |  |  |

| Test Case ID | | TC-01-004 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F001 | | | | |
| Objective | | Exception Flow: @Step 9: Data import process fails due to system issues. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Provide supported File or valid API details | | Display error message. |  | |  |  |

| Test Case ID | | TC-01-005 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F001 | | | | |
| Objective | | Testing GUI correctness to ensure system usability during import data. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click “Import Data” button | | Display “Import Data” option |  | |  |  |
| Click “Import Data” option | | Display a list of data sources in a Container. |  | |  |  |
| Select File data source | | Display a “Upload from Device” button |  | |  |  |
| Select API data source | | Display a form with required fields to fill API details. |  | |  |  |
| Submit data source | | Display a notification of successful data import. |  | |  |  |
| Provide unsupported file format | | Display an error message of unsupported file format. |  | |  |  |
| Provide invalid API details | | Display an error message of invalid API details. |  | |  |  |
| Provide supported File or valid API details while the system has import process issues. | | Display an error message of system issue. |  | |  |  |

# F002 Export Data

| Test Case ID | | TC-02-001 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F002 | | | | |
| Objective | | To export visualizations into various formats (like PNG, JPEG, PDF, etc) for use in reports or presentations. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click “Export Data” button -> Choose the “Export Data” options -> Select the desired export format -> Confirm the export | | Export the visualization and notify the actor |  | |  |  |

| Test Case ID | | TC-02-002 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F002 | | | | |
| Objective | | The actor chooses the “Export Data” option Exception Flow: The actor chooses an unsupported export format. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Choose an unsupported export format. | | The system displays an error message. |  | |  |  |

| Test Case ID | | TC-02-003 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F002 | | | | |
| Objective | | The system exports the visualization Exception Flow: Visualization export process fails due to system issues. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Visualization export process fails due to system issues. | | The system displays an error message. |  | |  |  |

| Test Case ID | | TC-02-004 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F002 | | | | |
| Objective | | To export visualizations into various formats (like PNG, JPEG, PDF, etc) for use in reports or presentations. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click “Export Data” button | | Display the options |  | |  |  |
| Choose the “Export Data” options | | Present a selection of export formats. |  | |  |  |
| Select the desired export format | | Prompt the actor to confirm the export. |  | |  |  |
| Confirm the export | | Export the visualization and notify the actor. |  | |  |  |

| Test Case ID | | TC-02-005 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F002 | | | | |
| Objective | | The actor chooses the “Export Data” option Exception Flow: The actor chooses an unsupported export format. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Choose an unsupported export format. | | The system displays an error message. |  | |  |  |

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| Test Case ID | | TC-02-006 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F002 | | | | |
| Objective | | The system exports the visualization Exception Flow: Visualization export process fails due to system issues. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Visualization export process fails due to system issues. | | The system displays an error message. |  | |  |  |

# F003 Clean and Process Data

| Test Case ID | | TC-03-001 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F003 | | | | |
| Objective | | To clean data by performing operations such as handle missing data, remove duplicate rows, convert wrong data type, standardize or normalize numeric data, etc. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Choose the 'Clean and Process Data' option -> Select the desired cleaning and processing operations -> Confirm the operations | | Perform the operation and notify the actor |  | |  |  |

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| Test Case ID | | TC-03-002 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F003 | | | | |
| Objective | | Selects the desired cleaning and processing operations Exception Flow: The actor chooses an unsupported cleaning or processing operation. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Choose an unsupported cleaning or processing operation | | The system displays an error message. |  | |  |  |

| Test Case ID | | TC-03-003 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F003 | | | | |
| Objective | | Performs the operations Exception Flow: Cleaning or processing operation fails due to system issues. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Cleaning or processing operation fails due to system issues. | | The system displays an error message. |  | |  |  |

| Test Case ID | | TC-03-004 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F003 | | | | |
| Objective | | Selects the desired cleaning and processing operations Exception Flow: The actor chooses an unsupported cleaning or processing operation. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Choose the 'Clean and Process Data' option. | | Present a selection of cleaning and processing options. |  | |  |  |
| Select the desired cleaning and processing operations | | Prompt the actor to confirm the operations. |  | |  |  |
| Confirm the operations | | Perform the operations and notify the actor. |  | |  |  |

| Test Case ID | | TC-03-005 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F003 | | | | |
| Objective | | Selects the desired cleaning and processing operations Exception Flow: The actor chooses an unsupported cleaning or processing operation. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Choose an unsupported cleaning or processing operation | | The system displays an error message. |  | |  |  |

| Test Case ID | | TC-03-006 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F003 | | | | |
| Objective | | Performs the operations Exception Flow: Cleaning or processing operation fails due to system issues. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Cleaning or processing operation fails due to system issues. | | The system displays an error message. |  | |  |  |

| Test Case ID | | TC-03-007 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | State Transition Testing | | | | |
| Related Feature ID | | F003 | | | | |
| Objective | | Selects the desired cleaning and processing operations Exception Flow: The actor chooses an unsupported cleaning or processing operation. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Choose the 'Clean and Process Data' option. | | Present a selection of cleaning and processing options. |  | |  |  |
| Select the desired cleaning and processing operations | | Prompt the actor to confirm the operations. |  | |  |  |
| Confirm the operations | | Perform the operations and notify the actor. |  | |  |  |

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# F004 View Visualized Data In Web App

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| Test Case ID | | TC-04-001 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F004 | | | | |
| Objective | | Verify view visualize data | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Navigate to visualize data section | | The system displays the visualizations that are available. |  | |  |  |
| Select desired visualization | | The system displays the visualization |  | |  |  |

# F005 Compare Visualized Data

| Test Case ID | | TC-05-001 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F005 | | | | |
| Objective | | Compare visualized data main flow | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Chooses the 'Compare Visualized Data' option,  Selects the desired datasets or data points for  Comparison,  Click confirms | | The system performs the comparison and notifies the actor. |  | |  |  |

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| Test Case ID | | TC-05-002 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F005 | | | | |
| Objective | | Compare visualized data exception flow: The actor chooses datasets or data points that cannot be compared. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Chooses datasets or data points that cannot be compared. | | The system displays an error message. |  | |  |  |

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| Test Case ID | | TC-05-003 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F005 | | | | |
| Objective | | Compare visualized data exception flow: Comparison operation fails due to system issues. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Chooses datasets or data points that cannot be compared. | | The system displays an error message of data that cannot be compared. |  | |  |  |

# F006 Delete Data To Be Visualized

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| Test Case ID | | TC-06-001 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F006 | | | | |
| Objective | | Delete data to be visualized main flow | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Select visualization,  Click the “delete data” button | | The system displays selection of datasets for deletion |  | |  |  |
| Select desired dataset to be deleted | | The system prompts for confirmation |  | |  |  |

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| Test Case ID | | TC-06-002 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F006 | | | | |
| Objective | | Delete data to be visualized exception flow: The actor chooses datasets or data points that cannot be deleted. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Chooses datasets or data points that cannot be deleted. | | The system displays an error message. |  | |  |  |

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| Test Case ID | | TC-06-003 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F006 | | | | |
| Objective | | Delete data to be visualized exception flow: System failure | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Chooses datasets or data points that cannot be deleted. | | The system displays an error message. |  | |  |  |

# 

| Test Case ID | | TC-06-004 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F006 | | | | |
| Objective | | Verify the functionality of “delete data” button. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click the “Delete Data” button | | The system displays the selection of datasets |  | |  |  |

# 

| Test Case ID | | TC-06-005 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F006 | | | | |
| Objective | | Verify the functionality of “confirm” button. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click the “Confirm” button | | The system deletes the selected data |  | |  |  |

# F007 Update Data To Be Visualized

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| Test Case ID | | TC-07-001 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F007 | | | | |
| Objective | | Update data to be visualized main flow | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Select visualization,  Click the “update” button,  Add new data, | | The system updates the visualization with the new data and display it |  | |  |  |

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| Test Case ID | | TC-07-002 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F007 | | | | |
| Objective | | Update data to be visualized alternative flow: The actor wants to discard the changes. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Select visualization,  Click the “cancel” button. | | The system navigates back to the default page that allows the actor to select the visualization they want to update. |  | |  |  |

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| Test Case ID | | TC-07-003 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F007 | | | | |
| Objective | | Update data to be visualized alternative flow: The actor inputs invalid data. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Add with empty data | | The system displays an error message. |  | |  |  |

# 

| Test Case ID | | TC-07-004 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F007 | | | | |
| Objective | | Verify the “update” button. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Select visualization,  Click the “update” button | | The system displays the current data associated with the  selected visualization. |  | |  |  |

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| Test Case ID | | TC-07-005 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F007 | | | | |
| Objective | | Verify the “add” button. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Add new data,  Click the “add” button | | The system displays the visualization with the new data. |  | |  |  |

# F008 Zoom In And Out Data Visualization

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| Test Case ID | | TC-08-001 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F008 | | | | |
| Objective | | Verify the functionality of “zoom in” icon | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click on the “zoom in” icon | | Zoom in and re-render the selected visualization |  | |  |  |

| Test Case ID | | TC-08-002 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F008 | | | | |
| Objective | | Verify the functionality of “zoom out” icon | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click on the “zoom out” icon | | Zoom out and re-render the selected visualization |  | |  |  |

| Test Case ID | | TC-08-003 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F008 | | | | |
| Objective | | Verify the functionality of “Reset Zoom” option | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click on the “Reset Zoom” option | | Reset and re-render the selected visualization back to the original size |  | |  |  |

# F009 Filter And Sort Data

| Test Case ID | | TC-09-001 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F009 | | | | |
| Objective | | Verify the functionality of filter button | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click on “Filter” button | | Display options to define filters and sorting criteria |  | |  |  |
| Select filter options | | Apply filters and updates data visualization according to the filters chosen |  | |  |  |

| Test Case ID | | TC-09-002 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F009 | | | | |
| Objective | | Verify the functionality of cancel button | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click on “Cancel” button | | Remove the applied filters |  | |  |  |

# F010 Change Visualization Technique

| Test Case ID | | TC-10-001 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F010 | | | | |
| Objective | | Main Flow | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Select a data visualization technique | | Display the selected data visualization. |  | |  |  |
| Select another data visualization technique | | Display the selected data visualization. |  | |  |  |

# 

| Test Case ID | | TC-10-002 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F010 | | | | |
| Objective | | Alternative Flow: @Step 7: The actor wants to revert to the previous visualization | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click “Undo” icon | | Displays the previously selected data visualization. |  | |  |  |

# F011 Change Data To Be Visualized

# 

| Test Case ID | | TC-11-001 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F011 | | | | |
| Objective | | Change Data To Be Visualized Main Flow | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click on the data visualization set to be modified | | Display selected visualization |  | |  |  |
| Click on the change datasets button | | Display options to select or deselect datasets or data points |  | |  |  |
| Click on select or deselect on the datasets or data points | | Update the visualization with newly selected data |  | |  |  |

| Test Case ID | | TC-11-002 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | Use Case Testing | | | | |
| Related Feature ID | | F011 | | | | |
| Objective | | Change Data To Be Visualized Exception Flow - Selected datasets do not match visualization requirements | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click on select or deselect on the dataset or data point | | Displays an error message and provide alternative options |  | |  |  |

| Test Case ID | | TC-11-003 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F011 | | | | |
| Objective | | Verify the functionality of select or deselect button | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click on the select button on specific datasets or data points | | Update visualization with selected datasets or data points |  | |  |  |
| Click on the deselect button on specific datasets or data points | | Update visualization with remaining selected datasets or data points |  | |  |  |

# F012 Change Data Visualization Color

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| Test Case ID | | TC-12-001 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F012 | | | | |
| Objective | | Verify the functionality of change color scheme button | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Click on the change color scheme button | | Display color scheme options to be selected |  | |  |  |
| Click on the desired color | | Update the visualization element with newly selected color scheme |  | |  |  |

# F013 View Visualized Data In iOS And Android Apps

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| Test Case ID | | TC-13-001 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F013 | | | | |
| Objective | | View visualized data in iOS and Android apps main flow | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Launch the iOS or Android app on their device. | | The system displays the login screen or user dashboard. |  | |  |  |
| Enter login credentials and authenticate themselves. | | The system navigates to the user dashboard. |  | |  |  |
| Select desired visualized data | | The system renders and displays the visualized data on the actor 's iOS or Android device. |  | |  |  |

# 

| Test Case ID | | TC-13-002 | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test Type | | GUI Testing | | | | |
| Related Feature ID | | F013 | | | | |
| Objective | | View visualized data in iOS and Android apps alternative flow: The actor encounters issues during the login/authentication process. | | | | |
| Input | | Expected Result | Actual Result | | Pass/Fail | Remarks |
| Enter login credentials and authenticate themselves without network connection | | The system displays error messages. |  | |  |  |