

Group Meeting Logs

Present Group Members	Meeting Date	Issues Discussed / Resolved
4	3/28	<p>Assigning parts for team member</p> <p><u>Junshen Xu</u>: getCo2, getEnergy, getForest, getGDP, getPM2.5, getPop, createScatterPloatChart, createReport, MainUI(full class), readCSV</p> <p>-<u>Haochen Hu</u>: MainUI, countryList, readCSV</p> <p>-<u>Xiao Ma</u>: CreatepieChart</p> <p>-<u>Taoye Na</u>: selection, strategy, strategy_factory, all the objects which implement strategies(using factory mehod) createlineChart, createBarChart, Result, Data, Login_proxy ,name_exception and tests classes</p>
4	3/29	Setting for bitbucket
4	04/04	collect and completing project

Test Driven Development

Test ID	Test_1
Category	Testing the login system
Requirements Coverage	UC1 User-Login
Initial Condition	The program has been started and runs.
Procedure	<ol style="list-style-type: none"> 1.The user selects login 2. The user provides a user name 3.The user provides a password 4. The user logs-in into the system and is presented with the main UI window)
Expected Outcome	the login form closes, and the user is presented with the main UI window
Notes	if user user do actually input the correct username and password,they can enter the main UI

Test ID	Test_2
Category	Testing the login error notification system
Requirements Coverage	UC1 User-Login
Initial Condition	The program has been started and runs.

Procedure	<i>1.The user selects login 2. The user provides a wrong user name or password 3.An error notification comes up and clear the input window</i>
Expected Outcome	<i>The login form remains, the input window has been cleared, user can enter the username and password again.</i>
Note	

Test ID	Test_3
Category	Testing the analysis type selection function
Requirements Coverage	<i>UC2-Selecting Analysis Type Successfully-different</i>
Initial Condition	User click on the Analysis Type list and select the type that needed
Procedure	<i>1. The User click on Analysis Type list 2. The system check if the selection can be processed 3. The program will check if previous analysis exists 4. If previous analysis exists, and if the previous analysis is different with the selected one, empty the viewer</i>
Expected Outcome	<i>There should be no false message returned.</i>
Notes	When only selection fail, a pop-up notice will tell the user the selection fail

Test ID	Test_4
Category	Testing the analysis type selection function
Requirements Coverage	<i>UC2-Selecting Analysis Type Successfully-same</i>
Initial Condition	User click on the Analysis Type list and select the type that needed
Procedure	<i>1. The User click on Analysis Type list 2. The system check if the selection can be processed 3. The program will check if previous analysis exists 4. If previous analysis exists, and if the previous analysis is same with the selected one, remain the viewer 5. Analysis type selected successfully</i>
Expected Outcome	<i>There should be no false message returned.</i>
Notes	When only selection fail, a pop-up notice will tell the user the selection fail

Test ID	Test_5
Category	Testing the analysis type selection function
Requirements Coverage	<i>UC2-Selecting Analysis Type Successfully-empty</i>
Initial Condition	User click on the Analysis Type list and select the type that needed

Procedure	<ol style="list-style-type: none"> 1. The User click on Analysis Type list 2. The system check if the selection can be processed 3. The program will check if previous analysis exists 4. If no previous analysis exists, the page remain empty and analysis type selected successfully
Expected Outcome	There should be no false message returned.
Notes	When only selection fail, a pop-up notice will tell the user the selection fail

Test ID	Test_6
Category	Testing the analysis type selection function
Requirements Coverage	UC2-Selecting Analysis Type Failed
Initial Condition	User click on the Analysis Type list and select the type that needed
Procedure	<ol style="list-style-type: none"> 1. The User click on Analysis Type list 2. The system check if the selection can be processed 3. Selected successfully
Expected Outcome	There should be a false message returned.
Notes	When only selection fail, a pop-up notice will tell the user the selection fail

Test ID	Test_7
Category	Testing the country selecting function
Requirements Coverage	UC3-Selecting Country successfully
Initial Condition	User click on the country selecting list and select country
Procedure	<ol style="list-style-type: none"> 1. The user selects country 2. The system check whether country selected can be processed 3. select successfully
Expected Outcome	Countries can be selected with no error notification.
Notes	

Test ID	Test_8
Category	Testing the country error notification function
Requirements Coverage	UC3-Selecting Country failed
Initial Condition	User click on the country selecting list and select country
Procedure	<ol style="list-style-type: none"> 1. The user selects country 2. The system check whether country selected can be processed 3. select failed 4. an error notification comes up
Expected Outcome	error notification comes up to the window

Notes	
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Test ID	Test_9
Category	Testing the year selection function
Requirements Coverage	<i>UC4-Selecting Year Successfully</i>
Initial Condition	User click on the year selection list and select the year that needed
Procedure	<ol style="list-style-type: none"> 1. The User click on year list 2. The system check if the selection can be processed 3. Selected successfully
Expected Outcome	<i>There should be no false message returned.</i>
Notes	

Test ID	Test_10
Category	Testing the year selection function
Requirements Coverage	<i>UC4-Selecting Year Failed</i>
Initial Condition	User click on the year selection list and select the year that needed
Procedure	<ol style="list-style-type: none"> 1. The User click on year list 2. The system check if the selection can be processed 3. Selected successfully
Expected Outcome	<i>There should be a false message returned.</i>
Notes	When only selection fail, a pop-up notice will tell the user the selection fail

Test ID	Test_11
Category	Testing the adding graph for computed / Obtained
Requirements Coverage	<i>UC5-adding-graph-Successful</i>
Initial Condition	User click on the add button
Procedure	<ol style="list-style-type: none"> 1. The user selects the add button 2. The system check if the selection is compatible with The analysis 3. Graph added
Expected Outcome	<i>There should be no false message returned.</i>
Notes	

Test ID	Test_12
Category	Testing the adding graph for computed / Obtained
Requirements Coverage	<i>UC5-adding-graph-Failed</i>
Initial Condition	User click on the add button

Procedure	1. The user selects the add button 2. The system check if the selection is compatible with The analysis 3. Graph could not be added
Expected Outcome	There should be a false message returned.
Notes	Add fails when the selection is not compatible with the analysis or the selection is already in the list

Test ID	Test_13
Category	Testing the removing graph for computed / Obtained
Requirements Coverage	UC6-removing-graph-Successful
Initial Condition	User click on the remove button
Procedure	1. The user selects the remove button 2. The system check if the selection is selection in the list 3. Graph removed
Expected Outcome	There should be no false message returned.
Notes	

Test ID	Test_14
Category	Testing the adding graph for computed / Obtained
Requirements Coverage	UC6-removing-graph-Failed
Initial Condition	User click on the remove button
Procedure	1. The user selects the remove button 2. The system check if the selection is selection in the list 3. Graph could not be removed
Expected Outcome	There should be a false message returned.
Notes	Graph removed fails when the selected item is not in the list

Test ID	Test_15
Category	Testing the analysis function will return correct value
Requirements Coverage	UC7-Successful-performing-analysis
Initial Condition	User click on Recalculate
Procedure	1. The User click on Recalculate 2. The system check if the required data can be collected 3. The System perform analysis with given data 4. The System check if the analysis succeeded 5. Perform if succeeded, system return analysed data
Expected Outcome	There should be no false message returned.
Notes	When only missing few years from the required years,the analysis will success

Test ID	Test_16
Category	Test if the analysis function will display error message
Requirements Coverage	<i>UC7-Failed-performing-analysis</i>
Initial Condition	User click on Recalculate
Procedure	<ol style="list-style-type: none"> <i>1. The User click on Recalculate</i> <i>2. The system check if the required data can be collected</i> <i>3. The System perform analysis with given data</i> <i>4. The System check if the analysis succeeded</i> <i>5. Part of data missing, system return error message</i>
Expected Outcome	<i>There should be a false message returned.</i>
Notes	The performance will fail when values are missing.

Test ID	Test_17
Category	Test if the display function will return the required graph with required data
Requirements Coverage	<i>UC8-Successful-display-result</i>
Initial Condition	Once data has been fetched and all calculation is returned
Procedure	<ol style="list-style-type: none"> <i>1. The system will collect all needed data</i> <i>2. The system determine the number of series of data needed</i> <i>3. screen is updated with new graph</i>
Expected Outcome	<i>The screen is updated with graphs that user selected</i>
Notes	Years may be missing due to lack of data

Test ID	Test_18
Category	Test if the display function will return the required graph with required data
Requirements Coverage	<i>UC8-Failed-display-result</i>
Initial Condition	Once all data has been fetched and all calculation is returned
Procedure	<ol style="list-style-type: none"> <i>1. The system will collect all needed data</i> <i>2. The system determine the number of series of data needed</i> <i>3. The system displays an error message due to incomplete analysis, missing data.</i>
Expected Outcome	<i>The screen will display an error message</i>
Notes	

Project Backlog

Backlog Item	Estimate
As a user I want to access the program	3
As a user I want to select the analysis type that I want	13
As a user I want to select the years of data that I want	8
As a user I want to select different type of graph type	8
As a user I want to add graph to the display screen	13
As a user I want to remove a selected graph from the display result	13
As a user I want the analysis result displayed in a window	13