Group Meeting Logs

Present Group Members	Meeting Date	Issues Discussed / Resolved
all	2021-03-27	Coding login
all	2021-03-28	getData class
Eric, Matti, Brendan	2021-03-29	Working on login
Eric, Matti, Brendan	2021-03-30	Working on login and viewer classes
all	2021-04-01	Analysis types and countries
all	2021-04-02	Scatter plot and viewer
all	2021-04-03	Bar graph, line graph and time series
all	2021-04-04	MainUI and report
all	2021-04-06	Final debugging and javadoc

Test Cases

Test ID	Test 1
Category	User Logs into the system successfully
Requirements Coverage	UC 1 Successful User Login
Initial Condition	The login system has been initialized, and the credential database and server are correctly implemented
Procedure	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 has access to the system
Notes	The user should provide a username and password in lower case, only using alphanumeric characters and no special symbols.

Test ID	Test 1.2
Category	User is unsuccessful in system login
Requirements Coverage	UC1 Unsuccessful User Login
Initial Condition	The login system has been initialized, and the credential database and server are correctly implemented
Procedure	1. The user selects login 2. The user provides a user name 3. The user provides a password 4. The user attempts to log into the system, either the username or password are incorrect

	5. The system prompts the user to input a correct username and password
Expected Outcome	The login form prompts the user to provide a correct username and password combination
Notes	

Test ID	Test 2
Category	Use Case 2: Selecting the analysis type to be performed.
Requirements Coverage	Use Case 2: Analysis type is selected.
Initial Condition	The user is logged in.
Procedure	1. The user selects an analysis to be performed from the analysis type list.
Expected Outcome	The analysis is selected successfully.
Notes	

Test ID	Test 3.1
Category	Use Case 3: Selecting a country to fetch and visualize data for.
Requirements Coverage	Use Case 3: Country's data is available.
Initial Condition	The user is logged in.
Procedure	1. The user selects a country from the countries list. 2. The user selects an analysis for the country and calculates the result.
Expected Outcome	The country's data is available, the analysis is completed, and the results are shown.

Notes	

Test ID	Test 3.2
Category	Use Case 3: Selecting a country to fetch and visualize data for.
Requirements Coverage	Use Case 3: Country's data is not available.
Initial Condition	The user is logged in.
Procedure	1. The user selects a country from the countries list. 2. The user selects an analysis for the country and calculates the result.
Expected Outcome	The country's data is not available, and so a message is shown informing the user as such.
Notes	

Test ID	Test 4.1
Category	Use Case 4: Selecting the years for which the analysis type is to be performed..
Requirements Coverage	Use Case 4: The start and end years are valid for the chosen analysis.
Initial Condition	The user is logged in and has selected a country.
Procedure	1. The user selects the initial year from the start year list. 2. The user selects the end year from the end year list. 3. The user presses the calculate button.
Expected Outcome	The country's data is available for the given time period, and the results are calculated and shown successfully.
Notes	

Test ID	Test 4.2
Category	Use Case 4: Selecting the years for which the analysis type is to be performed..
Requirements Coverage	Use Case 4: The start and end years are not valid for the chosen analysis.
Initial Condition	The user is logged in and has selected a country.
Procedure	1. The user selects the initial year from the start year list. 2. The user selects the end year from the end year list. 3. The user presses the calculate button.
Expected Outcome	The country's data is not available for the given time period, and a message is presented informing the user.
Notes	

Test ID	Test 5.1
Category	Use Case 5: User Adds a Viewer
Requirements Coverage	Use Case 5: Viewer is added successfully
Initial Condition	The user is logged in and has selected an analysis and a country and years for the analysis to be performed on.
Procedure	1. The user selects a viewer from the list. 2. The user selects the add button to add the viewer.
Expected Outcome	The viewer is successfully added to the User Interface.
Notes	

Test ID	Test 5.2
Category	Use Case 5: User Adds a Viewer

Requirements Coverage	Use Case 5: Viewer is not compatible with chosen analysis.
Initial Condition	The user is logged in and has selected an analysis and a country and years for the analysis to be performed on.
Procedure	1. The user selects a viewer from the list. 2. The user selects the add button to add the viewer.
Expected Outcome	The user is notified with a message stating that the viewer is not compatible with chosen analysis.
Notes	

Test ID	Test 6.1
Category	Use Case 6: User Removes a Viewer
Requirements Coverage	Use Case 6: Viewer is removed successfully
Initial Condition	The user is logged in and has selected an analysis and a country and years for the analysis to be performed on.
Procedure	1. The user selects a viewer from the list. 2. The user selects the remove button to remove the viewer.
Expected Outcome	The viewer is successfully removed from the User Interface.
Notes	

Test ID	Test 6.2
Category	Use Case 6: User Removes a Viewer
Requirements Coverage	Use Case 6: Viewer is not deployed.
Initial Condition	The user is logged in and has selected an analysis and a country and years for the analysis to be performed on.

Procedure	1. The user selects a viewer from the list. 2. The user selects the remove button to remove the viewer.
Expected Outcome	The user is notified with a message stating that the viewer is not deployed onto the interface.
Notes	

Test ID	Test 7.1
Category	Use Case 7: Performing the analysis.
Requirements Coverage	Use Case 7: Analysis is calculated successfully.
Initial Condition	The user is logged in and has selected an analysis and a country and years for the analysis to be performed on.
Procedure	1. The user selects the recalculate button.
Expected Outcome	The analysis is calculated and results shown without any problems.
Notes	

Test ID	Test 7.2
Category	Use Case 7: Perform the Analysis
Requirements Coverage	Use Case 7: Analysis performed unsuccessfully
Initial Condition	The user is logged in and has selected an analysis and a country and years for the analysis to be performed on.
Procedure	1. The user selects the recalculate button.

Expected Outcome	Analysis cannot be performed due to insufficient data and a error message is sent to the user.

Test ID	Test 8
Category	Use Case 8: Displaying the results.
Requirements Coverage	Use Case 8: The results are displayed unto the UI.
Initial Condition	The user is logged in and selected the analysis type, time period, and countries and selects the calculate button.
Procedure	1. The data is fetched from the world bank database. 2. The computations are completed. 3. The results are displayed using viewers.
Expected Outcome	The results are displayed onto the UI through viewers..
Notes	