Test Case Id	Unit to Test	Requirements	Assumptions	Test data	Steps to be executed	Expected result	Actual result	Pass/Fail	Comments
1: Tes	1: Test Loading Data from a file								
1-1	CSVReader.cpp	Reads Grants and Clinical Funding CSV files successfully	The file header will not be empty	GrantsClinicalFunding_sa mple_sample.csv	Read the file using CVSReader and 2. Check if the header is not empty. If the header is not empty we know that it has been read correctly	The header will not be empty	The header was not empty	Pass	
1-2	CSVReader.cpp	Reads Presentations CSV files successfully	The file header will not be empty	Presentations_sample.	Read the file using CVSReader and 2. Check if the header is not empty. If the header is not empty we know that it has been read correctly	The header will not be empty	The header was not empty	Pass	
1-3	CSVReader.cpp	Reads Publications CSV files successfuly	The file header will not be empty	Publications_sample.csv	Read the file using CVSReader and 2. Check if the header is not empty. If the header is not empty we know that it has been read correctly	The header will not be empty	The header was not empty	Pass	
1-4	CSVReader.cpp	Reads Teaching CSV files successfuly	The file header will not be empty	Teaching_sample.csv	Read the file using CVSReader and 2. Check if the header is not empty. If the header is not empty we know that it has been read correctly	The header will not be empty	The header was not empty	Pass	
1-5	CSVReader.cpp	Does not read in a file that does not exist	The file path we are attempting to load does not exist	"thisfiledoesnotexist.cvs" (this file does not exist in the working directory)	Read the file using CVSReader and 2. Check if the headers are still empty. If the headers are still empty we know that the file was not read.	The file was not read.	The file was not read.	Pass	
1-6	CSVReader.cpp	Does not read in a invalid file type		invaliddata.txt	Read the file using CVSReader and 2. Check if the headers are still empty. If the headers are still empty we know that the file was not read.	The file was not read.	libc++abi.dylib: terminating with uncaught exception of type std::out_of_range: basic_string The program has unexpectedly finished.	Fail	Fixed Below
1-6	CSVReader.cpp	Does not read in a invalid file type		invaliddata.txt	Read the file using CVSReader and 2. Check if the headers are still empty. If the headers are still empty we know that the file was not read.	The file was not read.	The file was not read.	Pass	The previous code was not checking the file extension. Just if the file exists. This means selecting any file other then a .csv crashed the program. This was fixed by checking the file extension before loading the file
2: Tes	t Displaying	a summary of data							
2-1	mainwindow.cpp	Grants data is displayed on screen		GrantsClinicalFunding_sa mple_sample.csv	1. Go to the grants tab. 2. Press Load file and select a grants CVS. 3. Load the file and discard any errors.	The summarized data should be displayed for the user to look at	The summerized data was displayed	Pass	
2-2	mainwindow.cpp	Presentations data is displayed on screen		Presentations_sample.	1. Go to the presentations tab tab. 2. Press Load file and select a presentations CVS. 3. Load the file and discard any errors.	The summarized data should be displayed for the user to look at	The summerized data was displayed	Pass	
2-3	mainwindow.cpp	Publications data is displayed on screen		Publications_sample.csv		user to look at	The summerized data was displayed	Pass	
2-4	mainwindow.cpp	Teaching Data is displayed on screen		Teaching_sample.csv	 Go to the teaching tab. Press Load file and select a teaching CVS. Load the file and discard any errors. 	The summarized data should be displayed for the user to look at	The summerized data was displayed	Pass	
3: Tes	t visualizing/	graphing of data							
3-1	mainwindow.ui / piechartwidgit.cpp	Check that the pie chart is displayed for all four subject areas	Pie charts will be displayed	PieChartWidgit	For each subject area select pie chart option, select a section, see if pie chart is displayed	The pie chart will be displayed	The pie chart was displayed	Pass	
3-2	qcustomplot.cpp	Check that the bar chart is displayed for all four subject areas			For each subject area select bar chart option, select a section, see if pie chart is displayed	The bar chart will be displayed	The bar chart was displayed	Pass	
4: Test dashboard navigation									
4-1	mainwindow.ui	Expand button expands sections and collapse button collapses sections		teachTreeView, pubTreeView, presTreeView, fundTreeView	Load a file. 2. Expand a section in the tree view. 3. Collapse a section on the tree view. Repeat for all 4 file types	The section will expands then collapse	The sections expanded and then collapsed	Pass	
4-2	mainwindow.ui	The user can use the tab bar to navigate to different tabs for each of the 4 subjects. Teaching, Publications, Presentations and Funding		categoryTab	Click on the Grants tab to navigate to it. 2. Click on the Presentations Tab to navigate to it. Click on the presentations tab to navigate to it. Click on the teaching tab to navgation tab	You can navigate to all the tabs	You can navigate to all the tabs	Pass	

5: Tes	t filtering and	d sorting data							
5-1	mainwindow.cpp	Changing a item in the filter_from box filters the data		teach_filter_from, pub_filter_from, pres_filter_from, fund_filter_from	Change text in the filter_from box. 2. Check if the data has been filtered	The change in the filter_from box will trigger a textChanged() event and cause the tree view to be update to reflect the filter	The data was filtered	Pass	
5-2	mainwindow.cpp	Chaning an item in the filter_to box filters the data		teach_filter_to, pub_filter_to, pres_filter_to, fund_filter_to	Change text in the filter_to box 2. Check if the data has been filtered	The change in the filter_to box will trigger a textChanged() event and cause the tree view to be update to reflect the filter	The data was filtered	Pass	
5-3	customsort.cpp	Allow the user to choose how to sort the data on screen		Teaching_sample.csv	Load a data file. 2. Create a custom sort. 3. Change the sort order to the custom sort	The data will be sorted	The data was sorted	Pass	If you attempt to create a sort with the Start Date first it will tell you you cannot sort by date first. While this is not a bug it is not very user friendly. This should be added to our "improvements" and we should prevent users from being able to sort by date first for a future deliverable.
6: Tes	t PDF and Pri	nt Export							
6.1	mainwindow	You can export a pie chart as a pdf		Teaching sample.csv	Load a data file. 2. Select a pie chart. 3. Export as a pdf	The chart will be exported as a pdf	The chart was expected	Pass	
6-1	mainwindow.cpp	You can export a pie chart as a por			Load a data file. 2. Select a bar chart. 3. Export	·	The chart was exported	Pass	
6-2	mainwindow.cpp	You can export a bar chart as a pdf		mple.csv	as a pdf	as a pdf	The char was exported	Pass	
6-3	mainwindow.cpp	You cannot export a blank pdf		Teaching_sample.csv	Load a data file. 2. Before selecting a chart press the export button.	The program will not let you export a empty pdf	The empty pdf was exported	Fail	If you export a PDF before selecting a data value you can export a empty PDF. Fixed Below
6-3: BUGFIX	mainwindow.cpp	You cannot export a blank pdf		Teaching_sample.csv	Load a data file. 2. Before selecting a chart press the export button.	The program will not let you export a empty pdf	The program will not let you export a empty pdf	Pass	Before the print buttons were being enabled as soon as data is imported to the program. This was fixed by only enabling the print buttons once they have selected data to print using "teachTreeView_clicked"
7: Tes	ting Tree dat	a structure							
	treeitem.cpp void appendChild (Treeltem *child);	You can insert items into a tree	If the number of children is equal to the number of children appended to the Treeltem the insert is working correctly	Treeltem parent item, child1, child2, child3	Create all 4 Treeltems using test data. 2. Set the child items to the parent item. 3. Check the number of children. Compare the number of children with the number of children appended to the tree.	The number of children inserted should be equal to the number of children	The number of children inserted was equal to the number of children	Pass	
	treeitem.cpp Treeltem *parentItem();	You can get the parent from a tree	G ,	Treeltem parent item, child1, child2, child3	Create all 4 Tree items user test data. 2. Set the child items to the parent items. 3. Check if the child nodes parent is equal to the parent node	The child nodes parent should be equal to the parent node	The child nodes parent should be equal to the parents node	Pass	
7-3	treeitem.cpp Treeltem *child(int row);	You can get the children from a tree		Treeltem parent item, child1, child2, child3	Create all 4 Tree items user test data. 2. Set the child items to the parent items. 3. Check if the children node is equal to the parents children	The parent nodes child should be equal to the child node	The parent nodes child should be equal to the child node	Pass	
8: Test Error Processing									
8-1	EditErrorDialog.cpp	If a data file contains any invalid records the program will propt the user to edit or discard them	The datafile we are testing with contains at least 1 invalid record	Publications_sample.csv	Load a data file that contains an invalid record	The program showns the number of invalid records andpromps the user to edit or discard the invalid record	The program showns the number of invalid records andpromps the user to edit or discard the invalid record	Pass	
8-2	EditErrorDialog.cpp	If the user presses the button to edit invalid records the user will be brought to a screen to fill in the missing data in all invalid records.	The datafile we are testing with contains at least 1 invalid record	Publications_sample.csv	Load a data file that contains an invalid record Press the edit button in the popup	The program displays the valid records along with the invalid that was corrected	The program displays the valid records along with the invalid that was corrected	Pass	

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8-3	EditErrorDialog.cpp	If the user fills in the missing data and presses save. The program will display the valid data and the invalid data that has been corrected	The datafile we are testing with contains at least 1 invalid record	Publications_sample.csv	Load a data file that contains an invalid record Press the edit button in the popup 3. Fill in the missing data. 4. Press the "save" button		The program displays the valid records along with the invalid that was corrected	Pass	
8-4	EditErrorDialog.cpp	If the user presses the button to discard invalid records. The program will discard these records and display the remaning data	The datafile we are testing with contains at least 1 invalid record	Publications sample.csv	Load a data file that contains an invalid record Press the "discard" button	The program discards the invalid records and only displays the valid records	The program discards the invalid records and only displays the valid records	Pass	
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9. Tes	ting QSortLis	110							
	QSortListIO class	The class should be able to save a QList of QStringLists to a file and then read the QList back out of the file.	The class will have the functionality to save a QList to a file and read it back out, the QList that we read from the file should be identical to our original QList. We will use QSortListlO::saveList (QList-QStrings-) to save our test QList to a file and then use QSortListlO::readList() to read it back out.		1. Create a QList <qstringlist> 2. Create a QSortListIO object 3. Use QSortListIO::saveList() to save to file 4. UseQSortListIO::readList() to retrieve the list 5. Compare the list to the original to make sure it did not get corrupted in the process</qstringlist>	The List returned by readList() will be the same as the original	The Lists were identical	Pass	
10: Ph	ase 1 System								
	mainwindow.cpp / piechartwidgit.cpp	PieChart should utilize a preset list of colors that work well together instead of picking colors at random		Teaching_sample.csv	Load a datafile. 2. Select a dataitem to display its chart.	The chart will use our preset list of colours.	The chart was displayed using our preset list of colors	Pass	
10-2	mainwindow.cpp / qcustomplot.cpp	The UI should display a line graph for the user to look at.		Teaching_sample.csv	 Load a datafile. Select a data item to display. Select the line chart button. 	A line chart will be displayed summarizing the data	A line chart was displayed summarizing the data	Pass	
10-3	editerrordialog.cpp	The dialog shsould contain a find next button that finds the next data item missing information		Teaching_sample.csv	Load a datafile. 2. Select edit the errors. 3. Fix the first error. 4. Press the find find next button	The dialog should jump to the next error	The dialog jumped to the next error	Pass	
10-4	mainwindow.cpp	The user should be able to sort by division		Teaching_sample.csv	Load a teaching data file. 2. Select create new custom sort. 3. Create a new custom sort by division. 4. Select that sort to be used	The data will be sorted by division	The data was sorted by division	Pass	
10-5	testcharts.cpp	The program should not be able to setup and empty line chart		nullptr	Call setupLineChart and pass in nullptr for the check. Check to make sure that it returns false	it should return false	it returns false	Pass	
10-6	testcharts.cpp	The program should not be able to setup and empty bar chart		nullptr	Call setupBarChart and pass in nullptr for the check. Check to make sure that it returns false	it should return false	it returns false	Pass	
10-7	testcharts.cpp	The program should not be able to setup and empty pie chart		nullptr	Call setupPieChart and pass in nullptr for the check. Check to make sure that it returns false	it should return false	it returns false	Pass	
10-8	editerrordialog.cpp	All text feilds in the edit error dialog are editable		Teaching_sample.csv	Load a datafile 2. Select to edit the invalid data. 3. Attempt to edit a cell that contains valid data and attemp to edit a cell that contains invalid data	Both cells should be editable	Both cells are editable	Pass	
11: Ph	ase 2 System	1							
11-1	CSVReader.cpp	The program should be able to read the new teaching files that include division and department data items	The file header will not be empty	Program_Teaching_expa nded.csv	Read the file using CVSReader and 2. Check if the header is not empty. If the header is not empty we know that it has been read correctly	The header will not be empty	The header was not empty	Pass	
11-2	CSVReader.cpp	and department data items	The file header will not be empty	Publications_expanded.	Read the file using CVSReader and 2. Check if the header is not empty. If the header is not empty we know that it has been read correctly	The header will not be empty	The header was not empty	Pass	
11-3	CSVReader.cpp	The program should be able to read the new presentation files that include division and department data items	The file header will not be empty	Presentations_expanded .csv	empty we know that it has been read correctly	The header will not be empty	The header was not empty	Pass	
11-4	CSVReader.cpp	The program should be able to read the new grants files that include division and department data items	The file header will not be empty	Grants_expanded.csv	Read the file using CVSReader and 2. Check if the header is not empty. If the header is not empty we know that it has been read correctly	The header will not be empty	The header was not empty	Pass	
11-5	testcharts.cpp	The program should not be able to setup and empty stacked bar chart		nullptr	Call setupStackedLineChart and pass in nullptr for the chart. Check to make sure that it returns false	it should return false	it returns false	Pass	

		The dialog should contain a find next							
11-6	editerrordialog.cpp	button that finds the next data item missing information	Te		1. Load a datafile. 2. Select edit the errors. 3. Fix the first error. 4. Press the find find next button	The dialog should jump to the next error	The dialog jumped to the next error	Pass	
11-7	editerrordialog.cpp	The dialog should contain a find previous button that finds the previous data item missing information	Te		Load a datafile. 2. Select edit the errors. 3. Fix an error. 4. Press the find previous button	The dialog should jump to the previous error	The dialog jumped to the previous error	Pass	
11-8	mainwindow.cpp	You should be able to drag and drop a file to load it	Te		Drag the file into the application window and drop it	The file should be loaded	The file was loaded	Pass	
11-9	mainwindow.cpp / erroreditdialog.cpp	You should be able to edit an existing sort			Load a data file. 2. Select a custom sort. 3. Press the edit sort button. 4. Change the sort 5. Press save	The sort should be modified	The sort was modified	Pass	
11-10	mainwindow.cpp / erroreditdialog.cpp	You should not be able to edit the default sort order				The application should display that you cannot edit the default sort	The application displayed that you cannot edit the default sort order	Pass	
11-11	erroreditdialog.cpp	When an error is fixed its cell should switch to green signaling that the cell has been fixed.	Te		1. Load a file. 2. Click the edit error button. 3. Fix several errors.	from red to green	The errors switched from red to green	Pass	
11-12	mainwindow.cpp	You can search through the data in the tree view	Te	aching_sample.csv		to only show data that	The data was filtered to only show data that contains the search string	Pass	
11: Ph	ase 3 System	1							
12-1	mainwindow.cpp	The user should be able to press control + p to print a graph	Te			The program brings up the print menu	The program brought up the print menu	Pass	
12-2	mainwindow.cpp	The user should be able to press control + e to export a graph	Te		Load a data file 2. Click on a data point to create the graph 3. Press control E to export	The program brings up the export menu	The program brought up the eport menu	Pass	
12-3	mainwindow.cpp	The user should be able to press control + I to load a file	Te		1. Open the program 2. Press Control L to load a data file	The program brings up the load file menu	The program brought up the load file menu	Pass	
12-4	mainwindow.cpp	The user should be able to press control + 1 to switch to the teaching tab			Open the program 2. Switch to a tab other than teaching 3. Press Control 1 to switch to the teaching tab	The program switches to the teaching tab	The program switched to the teaching tab	Pass	
12-5	mainwindow.cpp	The user should be able to press control + 2 to switch to the publications tab			2. Open the program 2. Press control 2 to switch to the publications tab	The program switches to the publications tab	The program switched to the publications tab	Pass	
12-6	mainwindow.cpp	The user should be able to press control + 3 to switch to the presentations tab			2. Open the program 2. Press control 3 to switch to the presentations tab	The program switches to the presentations tab	The program switched to the presentations tab	Pass	
12-7	mainwindow.cpp	The user should be able to press control + 4 to switch to the grants tab			2. Open the program 2. Press control 4 to switch to the grants tab	The program switches to the grants	The program switched to the grants tab	Pass	
	mainwindow.cpp	The program should save the last file opened if the last file is teaching		og.aoaog_onpa		The program promps the user to reopen the last file they had open	The program promped the user to reopen the last file they had open	Pass	
12-9	mainwindow.cpp	The program should save the last file opened if the last file is publications	Pu			The program promps the user to reopen the last file they had open	The program promped the user to reopen the last file they had open	Pass	
12-10	mainwindow.cpp	The program should save the last file opened if the last file is presentations	Pri .cs	occintationio_cxpanaca	1. Load a presentations file. 2. Close the	The program promps the user to reopen the last file they had open	The program promped the user to reopen the last file they had open	Pass	
12-11	mainwindow.cpp	The program should save the last file opened if the last file is grants		rants_expanded.csv	1. Load a teaching file. 2. Close the program. 3. Reopen the program	The program promps the user to reopen the last file they had open	The program promped the user to reopen the last file they had open	Pass	
12-12	mainwindow.cpp	The program should be able to sort by a user selected list		ogram_Teaching_expa led.csv	1. Load a file 2. Press the "User Select" Button 3. Select a group of names 4. Press Apply	The tree view should only list the selected items	The tree view should only list the selected items	Pass	