Desktop Application Test Report

Version 1

Last Updated: 5/25/23

Table of Contents

Test Case Definitions

Summary of test cases to ensure functioning of core requirements.

Test Case 1

Test Focus: Login Page functionality

Test Case	1						
Prepared By	Stephan Schuller						
Version Number	1.5 [Updated 5-9-23]						
Objective	verify LogIn class page allows credentials to be validated, and grant user access to the Kare desktop application. (Steps :1)						
Conditions	Kare_App.py OR Kare_App.exe has loaded login_page.py						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	login_page.py	Valid Email/ Password	Validation/ Progression				

Test Case 2

Test Focus: login_page.py Functionality

Test Case	2
Prepared By	Stephan Schuller
Version Number	1 [Created 04/8/23]
Objective	Verify LogIn page is working correctly denying invalid credentials from being validated and prevent unauthorized access to the Kare desktop application. (Steps: 1)
Conditions	Kare_App.py OR Kare_App.exe has loaded login_page.py

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	login_page.py	Invalid Email/ Password	Invalidation/ Denied Access				

Test Case 3

Test Focus: login_page.py Functionality

Test Case	3						
Prepared By	Stephan Schuller						
Version Number	1 [Created 04/08/23]						
Objective	Verify Login Page is navigating to HomePage class after validation of credentials from Login Page (Steps: 1)						
Conditions	User has Entered Valid Credentials in Login Page and those Credentials have passed validation. Source: login_page.py						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	login_page.py	valid Email/ Password	Automatic Forwarding to HomePage				

Test Case 4

Test Focus: home_page.py functionality

Test Case	4						
Prepared By	Stephan Schuller						
Version Number	1.5 [Updated 5/12/23]						
Objective	Verify HomePage class is properly loading and displaying toolbar, toolbar buttons have correct images and all dropdowns are present (Steps: 1-3)						
Conditions	login_page.py has properly navigated forward to the HomePage class. Data_entry_page.py has properly navigated to "New_Graph" tool Log_page.py has properly navigated to "New-Graph" tool. Statisticas_page.py has properly navigated to "New-Graph" tool.						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	N/A	Automatic Loading of "toolbar" and dropdown Elements				
2	Home_page.py	N/A	Automatic loading of Canvas				
3	Home_page.py	N/A	Automatic loading of "Data" Control section				

Test Case 5

Test Focus: home_page.py functionality (Import – From File)

Test Case	5						
Prepared By	Stephan Schuller						
Version Number	1 [Created 4/24/23]						
Objective	Verify HomePage "Import – From File" button loads "Select a File" dialog, and dialog shows appropriate file types, file data is available in Kare desktop app (Steps: 1-5)						
Conditions	HomePage class is loaded.						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	select "Import – From File" button	Select A File Dialog Opens				
2	home_page.py	N/A	Any appropriate file types are displayed				
3	home_page.py	Select file from dialog	File is brought into select field.				
4	home_page.py	Selecting "Open"	Dialog Disappears				
5	home_page.py	Select from "Dataset" dropdown	Opened file is present to select				

Test Case 6

Test Focus: home_page.py functionality (Import -Data Sync)

Test Case	6
Prepared By	Stephan Schuller
Version Number	1 [Created 4/24/23]
Objective	Verify HomePage "Import – Data Sync" button retrieves updates to database.json, database.json is available to select from "Dataset" dropdown (Steps: 1-2)
Conditions	HomePage OR Log-page, OR Statistics Page, Class Or DataEntryPage class been loaded.

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	See conditional Class	select "Import – Data Sync" button	(No Visual Indicator)				
2	See Conditional Class	Select from "Dataset" dropdown	Synced database.json file is present to select				

Test Case 7

Test Focus: home_page.py functionality (Export – Graph) tool

Test Focus: statistics_page.py functionality (Export -Graph) tool

Test Case	7						
Prepared By	Stephan Schuller						
Version Number	1.5 [Updated 5/12/23]						
Objective	Verify HomePage or StatisticsPage class "Export- Graph" tool exports a PNG file to permanent storage. (Steps: 1-5A)						
Conditions	HomePage OR StatisticsPage class is loaded. A graph has been generated using Data or Statistics Controls						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py OR Statistics_page.py	select "Export - Graph" button	Save As dialog opens				
2	home_page.py OR Statistics_page.py	Enter desired name of file in dialog	The text appears in field				
3A	home_page.py OR Statistics_page.py	Select Save Button	Dialog Disappears				
3B	home_page.py OR Statistics_page.py	Select Cancel Button	Dialog Disappears				
4A	Windows Explore	Search for Name file in Save location	Named File Exists				
5A	Windows Explore	Open Saved File	File Contains Appropriate facsimile of Graph				

Test Case 8

Test Focus: home_page.py functionality (Export – Data)

Test Case	8						
Prepared By	Stephan Schuller						
Version Number	1.4 [Updated 4/28/23]						
Objective	Verify HomePage "Export- Data" button exports a CSV or JSON file to permanent storage. (Steps: 1 - 5Ba)						
Conditions	HomePage class is loaded. A data is loaded using Import- Sync Data, or Import – From File						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	select "Export - Data" button	Save As dialog opens				
2	home_page.py	Enter desired name of file in dialog	The text appears in field				
3A	home_page.py	Select "Save as Type" CSV	CSV is populated as type in field				
3B	home_page.py	Select "Save as Type" JSON	JSON is populated as type in field				
4Aa, Ba	home_page.py	Select Save Button	Dialog Disappears				
4Ab, B,b	home_page.py	Select Cancel Button	Dialog Disappears				
5Aa	Windows Explore	Search for Name file in Save location	Named File Exists				
5Ba	Windows Explore	Search for Name file in Save location	Named File Exists				

Test Case 9

Test Focus: home_page.py functionality (New – Graph)

Test Case	9						
Prepared By	Stephan Schuller						
Version Number	1 [Created 4/18/23]						
Objective	Verify HomePage "New- Graph" is capable of retrieving correct attributes from dropdowns (Steps 1- 8)						
Conditions	HomePage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Select from "Dataset" dropdown	Selected dataset is in field				
2	home_page.py	Select from "Attribute" dropdown	Database Attributes are present				
3	home_page.py	Select Attribute from dropdown	Selected Attribute is in field				
4	home_page.py	Select from X axis	Attribute, Num, Text, Date are present				
5	home_page.py	Select from X axis from Dropdown	Selected Num, Text, Date is in field				
6	Home_page.py	Select from Y Axis	Attribute Num, Text, Date are present				
7	home_page.py	Select from Y axis from Dropdown	Selected Num, Text, Date is in field				
8	Home_page.py	Select Date from TK Calendar	Tk Calendar is functional				

Test Case 10

Test Focus: home_page.py functionality (New _Graph)

Test Case	10						
Prepared By	Stephan Schuller						
Version Number	1 [Created 4/24/23]						
Objective	Verify HomePage "New- Graph" button is able to select appropriate plot types, and generate appropriate graphs (Steps 1 - 3)						
Conditions	HomePage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File – DropDowns have been filled						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Select from "Chart Type" Dropdown	Appropriate chart types are present based on attribute				
2	home_page.py	Select Chart Type from Dropdown	Chat Type is present in field				
3	home_page.py	Select "Generate" button	Appropriate Plot is created in Homepage Canvas				

Test Case 11

Test Focus: home_page.py functionality (New – Record)

Test Focus: log_page.py functionality (New – Record)

Test Focus statistics_page.py functionality (New – Record)

Test Case	11						
Prepared By	Stephan Schuller						
Version Number	1.5 [Updated 5/12/23]						
Objective	Verify HomePage "New-Record" button is able to Navigate to DataEntryPage class (Steps: 1 – 2)						
Conditions	HomePage OR LogPage, or StatisticsPage class is loaded,						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py OR Log_page.py OR Statistics_page.py	Select "New-Record" button from toolbar	Navigation to DataEntryPage class				
2	Data_entry_page.py	N/A	Automatic Loading of "toolbar" and dropdown Elements				

Test Case 12

Test Focus: data_entry_page.py functionality (New – Record)

Test Case	12						
Prepared By	Stephan Schuller						
Version Number	1 [Created 4/24/23]						
Objective	Verify DataEntryPage class loads dropdowns and text fields as appropriate. (Steps: 1 - 3)						
Conditions	DataEntryPage class is loaded						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	data_entry_page.py	Select "Care Dropdown	Appropriate care types are present				
2	data_entry_page.py	Select Care Type from Dropdown	Care type is set and new appropriate fields appear				
3	data_entry_page.py	Select Field and enter data	Data is maintained in field				

Test Case 13

Test Focus: data_entry_page.py functionality (New – Record)

Test Case	13						
Prepared By	Stephan Schuller						
Version Number	1 [Created 4/24/23]						
Objective	Verify DataEntryPage creates new Event on Save and is retrievable. (Steps: 1 – 3)						
Conditions	DataEntryPage class is loaded						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	data_entry_page.py	Save Button Is selected	"Record Entered Successfully" dialog appears				
2	data_entry_page.py	Select " ok"	Dialog disappears and screen is ready for additional record entry				
3	Home_page.py	Use Import "Data-Sync"	New record is available in "New_graph" "View-Log" and "View_Plot"				

Test Case 14

Test Focus: log_page.py functionality (View-Log)

Test Case	14						
Prepared By	Stephan Schuller						
Version Number	1.5 [Updated 5/12/23]						
Objective	Verify log_page.py loads correctly and can be interacted with (Steps : 1- 4AB)						
Conditions	HomePage class OR DataEntryPage class OR StatisticsPage class is loaded						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Home_page.py OR Data_Entry_page.py OR Statistics_page.py	View_Log Button is selected	LogPage class is loaded				
2	Log_page.py	Select Dataset Dropdown	Select a dataset File dialog opens				
3A	Log_page.py	Select Event Dropdown	Dropdown has event types to select				
3B	Log_page.py	Select Date Range Radio Buttons	Radio Buttons save selection				
4AB	Log_page.py	Select Load Button	Event list is generated on left side of screen				

Test Case 15

Test Focus: log_page.py functionality (View-Log)

Test Case	15						
Prepared By	Stephan Schuller						
Version Number	1 [Created 5/17/23]						
Objective	Verify log_page.py properly loads selected Dataset File (Steps : 1 – 4B)						
Conditions	LogPage class is loaded, there is a dataset (previously saved) to select.						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Log_page.py	Select Dataset Dropdown	Select a dataset File dialog opens				
2	Log_page.py	File Dialog allows Windows style navigation	Select a dataset File dialog opens				
3	Log_page.py	Select file type	Select a Dataset File Dialog shows appropriate file types when selected				
4A	Log_page.py	Select Open	Dialog closes "No Selected File" indicator is changed to {filename}				
4B	Log_page.py	Select Cancel	Dialog closes no other changes occur				

Test Case 16

Test Focus: log_page.py functionality (View_log)

Test Case	16						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify LogPage class dropdowns, radio buttons, and Load button function (Steps: 1 – 4)						
Conditions	LogPage class is loaded, and a Dataset is verified selected						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Log_page.py	Select "Select Event" Dropdown	Drop down is populate with appropriate events				
2	Log_page.py	Select event type from dropdown	Event type is pinned to dropdown selector				
3	Log_page.py	Select date range from radio buttons	Appropriate date range remains selected				
4	Log_page.py	Select Load Button	Appropriate Filtered Event Type and Date Events are Displayed				

Test Case 17

Test Focus: log_page.py functionality (View_log)

Test Case	17						
Prepared By	Stephan Schuller						
Version Number	1.5 [Updated 5/17/23] Updated TK Interface						
Objective	Verify LogPage class dropdowns, radio buttons, and Load button function (Steps: 1 – 4)						
Conditions	LogPage class is loaded, and a Dataset is verified selected						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Log_page.py	Select "Select Event"Dropdown	Drop down is populate with appropriate events				
2	Log_page.py	Select event type from dropdown	Event type is pinned to dro[pdown selector				
3	Log_page.py	Select date range from radio buttons	Appropriate date range remains selected				
4	Log_page.py	Select Load Button	Appropriate Filtered Event Type and Date Events are Displayed				

Test Case 18

Test Focus: log_page.py functionality (View_log)

Test Case	18						
Prepared By	Stephan Schuller						
Version Number	1 [Created 05/09/23]						
Objective	Verify LogPage class Canvas is Event "on click" functionality to display Event Details (Steps: 1),						
Conditions	LogPage class is loaded, and a Dataset is verified selected, Dropdowns and filters have been completed a Events have been loaded in LogPage Canvas Left.						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Log_page.py	Select an Event from LogPage Canvas Left	Specific Event Details are Displayed on Right.				

Test Case 19

Test Focus: log_page.py functionality (View_log)

Test Case	19						
Prepared By	Stephan Schuller						
Version Number	1.5 [Updated 5/17/23]						
Objective	Verify LogPage class Canvas is Event "on click" functionality to display Event Details (Steps: 1),						
Conditions	LogPage class is loaded, and a Dataset is verified selected, Dropdowns and filters have been completed a Events have been loaded in LogPage Canvas Left.						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Log_page.py	Select an Event from LogPage Canvas Left	Specific Event Details are Displayed on Right.				

Test Case 20

Test Focus: statistics_page.py functionality (View-Plots)

Test Case	20						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify StatisticsPage "View-Plots" is capable of retrieving correct attributes from dropdowns (Steps : 1-12)[2 Pages]						
Conditions	StatisticsPage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Statistics_page.py	Select from "Dataset" dropdown	Selected dataset is in field				
2	Statistics_page.py	Select "Attribute 1" dropdown	Database Attributes are present				
3	Statistics_page.py	Select Attribute 1 from dropdown	Selected Attribute is in field				
4	Statistics_page.py	Select Metric dropdown	Attribute, Num, Text, Date are present				
5	Statistics_page.py	Select from Metric from Dropdown	Selected Num, Text, Date is in field				
6	Statistics_page.py	Select "Attribute 2" dropdown	Database Attributes are present				
7	Statistics_page.py	Select Attribute 2 from dropdown	Selected Attribute is in field				
8	Statistics_page.py	Select Metric dropdown	Attribute, Num, Text, Date are present				
9	Statistics_page.py	Select from Metric	Selected Num, Text,				

		from Dropdown	Date is in field				
10	Statistics_page.py	Select Gridline Attribute Dropdown	Database Attributes are present				
11	Statistics_page.py	Select Gridline Attribute From dropdown	Selected Attribute is in field				
12	statistics_page.py	Select Date from TK Calendar	Tk Calendar is functional				

Test Case 21

Test Focus: statistics_page.py functionality (View-Plots)

Test Case	21						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify StatisticsPage "View-Plots" is capable of retrieving correct attributes from dropdowns (Steps : 1-3B)						
Conditions	StatisticsPage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Statistics_page.py	Select from "Chart Type" Dropdown	Appropriate chart types are present based on attribute				
2	Statistics_page.py	Select Chart Type from Dropdown	Chat Type is present in field				
3A	Statistics_page.py	Select Clear Fields Button	Fields are cleared				
3B	Statistics_page.py	Select Generate Button	Appropriate Plot is created in StatisticsPage Canvas				

Test Case 22

Test Focus: home_page.py output (New – Graph)

Test Case	22						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify home_page.py (New-Graph) tool is generating graphs of intended content and quality, (Steps: 5)						
Conditions	Home_page.py has HomePage Class loaded, the Data Controls have been filled correctly and the "Generate" button has been pressed						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Generate Button has been pressed	Appropriate Chart Type is Shown				
2	home_page.py	Cont.	Appropriate X Axis is shown				
3	home_page.py	Cont.	Appropriate X Ticks are shown				
4	home_page.py	Cont.	Appropriate Y Axis is shown				
5	home_page.py	Cont.	Appropriate Y- Ticks are shown				

Test Case 23

Test Focus: home_page.py output (New – Graph)

Test Case	23						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify home_page.py (New-Graph) tool is generating graphs of intended content and quality, (Steps: 2)						
Conditions	Home_page.py has HomePage Class loaded, the Data Controls have been filled correctly and the "Generate" button has been pressed						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Graph with Date metric has been Created	Date is displayed (formatted) correctly				
2	home_page.py	Cont.	Date is Trimmed Correctly				

Test Case 24

Test Focus: home_page.py output (New – Graph)

Test Case	24						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify home_page.py (New-Graph) tool is generating graphs of intended content and quality, (Steps: 1)						
Conditions	Home_page.py has HomePage Class loaded, the Data Controls have been filled correctly and the "Generate" button has been pressed						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Graph with Time metric has been Created	Time is displayed (formatted) correctly				

Test Case 25

Test Focus: statistics_page.py output (View - Plot)

Test Case	25						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify statistics_page.py (View -Plot) tool is generating graphs of intended content and quality, (Steps: 5)						
Conditions	Statistics_page.py has StatisticsPage Class loaded, the Data Controls have been filled correctly and the "Generate" button has been pressed						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	statistics_page.py	Graph with Date metric has been Created	Date is displayed correctly.				
2	statistics_page.py	Cont.	Date is Trimmed Correctly				
3	statistics_page.py	Cont.	Appropriate X Ticks are shown				
4	statistics_page.py	Cont.	Appropriate Y Axis is shown				
5	statistics_page.py	Cont.	Appropriate Y- Ticks are shown				

Test Case 26

Test Focus: statistics_page.py output (View - Plot)

Test Case	26						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify statistics_page.py (View - Plot) tool is generating graphs of intended content and quality, (Steps: 2)						
Conditions	statistics_page.py has StatisticsPage Class loaded, the Statistic Controls have been filled correctly and the "Generate" button has been pressed						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	statistics_page.py	Graph with Date metric has been Created	Date is displayed (formatted) correctly.				
2	statistics_page.py	Cont.	Date is Trimmed Correctly				

Testing Reports Summary

Summary: ID's for failed tests are reported, comments, and resolved or recommendations are made.

Test Type	Test ID	Test Case	Developer	Date	Summary Problem	Summary Solution
Req Func.	1	1	Megan P.	4/8/23	Credentials not Validated	Allow Changing IP api.py as static
Req Func	2	1	Megan P.	4/8/23	Passed	
Req Func	3	1	Megan P	4/10/23	Credentials not Validated	Stalled when Ip address invalid – Create Error
	followup	1	Megan P	4/10/23	Passed	Invalid creates Error
Req Func	4	2	Stephan S.	4/10/23	Passed	Invalid Credentials Error
Req Func	5	3	Megan P	4/11/23	Passed	HomePage Class is created
Req Func	6	1	Megan P	4/11/23	Valid Credential Stalling	Ip address error
	followup	1	Megan P.	4/11/23	Server refusing credentials	Port listening incorrect (resolved)
Req Func	7	4	Megan P	4/15/23	HomePage Class not properly navigating to other classes	Home_page.py missing lambda functions for navigational Class loading
Req Func	8	4	Megan P.	4/15/23	Passed	
Req Func	9	5	Stephan S	4/18/23	Passed	
Req Func	10	6	Megan P.	4/18/23	Passed	
	Followup	4	Megan P.	4/24/23	Passed	
Req Func	Followup	5	Megan P.	4/24/23	passed	
Req Func	11	7	Megan P	4/26/23	Passed	
Req Func	12	8	Stephan S	4/26/23	Passed	Not complete contents of exported data?
	13	8	Megan P	4/26/23	Change Status Failed	Not complete contents

Test Type	Test ID	Test Case	Developer	Date	Summary Problem	Summary Solution
Req Func	14	8	Megan P.	4/28/23	Passed	Resolved1
Req Func	15	9	Stephan S	5/3/23	Graphical Error Created	TK Calendar Bug
Req Func	16	9	Stephan S	5/3/23	Passed	No bug fix if we want to use TK Calendar.
Req Func	17	10	Stephan S.	5/3/23	Passed	
Req Func	18	11	Zak K	5/6/23	Passed	
Req Func	19	12	Megan P.	5/8/23	Passed	
Req Func	20	13	Megan P.	5/8/23	Nonsense events can be created	Set limits to input fields specific to type
Req Func	21	13	Megan P	5/8/23	Passed	
Req Func	22	14	Zak K	5/8/23	Passed	
Req Func	Followup	1	Megan P.	5/9/23	Passed	
Req Func	Followup	2	Megan P	5/9/23	Passed	
	Followup	11	Zak K.	5/12/23	Passed	
	Followup	14	Zak K.	5/12/23	Passed	
	Followup	4	Megan P.	5/12/23	Passed	
Req Func	23	15	Zak K.	5/17/23	Passed	
Req Func	24	16	Zak K.	5/22/23	Passed	
Req func	25	17	Zak K,	5/22/23	Passed	
Req Func	26	18	Zak K,	5/22/23	Passed	
	Followup	17	Zak K.	5/24/23	Passed	
Req Func	27	19	Zak K.	5/24/23	No Results Displayed	Fix to show detailed Type Name dat from JSON
Req Func	28	19	Zak K.	5/24/23	Passed	
Req Func	29	20	Stephan S	5/24/23	Passed	Plot types available that don't work
	Followup	19	Zak K	5/24/23	Passed	Security for JSON future update
Req Func	30	21	Stephan S.	5/24/23	Passed	data filtering issue. For metrics and plot type
Req Func	31	9	Megan P.	5/24/23	Population Error	Error with time format

Test Type	Test ID	Test Case	Developer	Date	Summary Problem	Summary Solution
	Followup	9	Megan P	5/24/23	Passed	
Req Func	32	9	Stephan S.	5/24/23	Passed	
Req Func	33	9	Megan P.	5/24/23	Passed	
Req Func	34	20	Stephan S	5/24/23	Database Time attribute no longer readable	Add if else statement to handle time events Statistics_page.py
Req Func	35	20	Stephan S	5/24/23	Passed	
Req Func	36	22	Stephan S.	5/24/23	StatisticsPage Canvas not display Time and Date properly	Charts.py updated to format chart ticks.
Req Func	37	22	Stephan S	5/24/23	Passed	
Req Func	38	23	Stephan S	5/24/23	Date is not trimmed correctly	Number of bins for plot is not dynamic, however dynamic bins causes other problems with scarce or outlier data
	Followup	23	Stephan S	5/24/23	Passed	Fix in future update to deal with bad data
Req Func	39	24	Stephan S	5/24/23	Passed	
Req Func	40	25	Stephan S	5/25/23	Date and time formatting switched	Make dynamic choosing of format
Req Func	41	25	Stephan S	5/25/23	Passed	
Req Func	42	26	Stephan S	5/25/23	Failed	UNRESOLVED

Test Reports Expanded
Test ID 1

Test Focus: Login Page functionality

Test Case	1
Prepared By	Stephan Schuller
Version Number	1.5 [Updated 5-9-23]
Objective	verify LogIn class page allows credentials to be validated, and grant user access to the Kare desktop application. (Steps :1)
Conditions	Kare_App.py OR Kare_App.exe has loaded login_page.py

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	login_page.py	Valid Email/ Password	Validation/ Progression	Credentials not validated	F	1	Megan Phinney

Comments:

Credentials are valid (from group file) however cannot be validated,

Issue :

Email Password is not validated. There is no error on display - log error, login attempt rejected.

Recommendation:

 [Short Term] Update api.py code to allow changing of all instances of a Ip address in as one static variable.

[Long Term] update login_page.py. and api.py to allow dynamic entry of IP addresses parallel to Email and Password

Resolution:

Short Term Rec accomplished

Long Term rec will be accomplished by 5/9/23

Test ID 2

Test Focus: Login Page functionality

Test Case	1						
Prepared By	Stephan Schuller						
Version Number	1.5 [Updated 5-9-23]						
Objective	verify LogIn class page allows credentials to be validated, and grant user access to the Kare desktop application. (Steps :1)						
Conditions	Kare_App.py OR Kare_App.exe has loaded login_page.py						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	login_page.py	Valid Email/ Password	Validation/ Progression	Credentials not validated	P	2	Megan Phinney

Comments:

Credentials are validated normally and automatic navigation to HomePage class is successful.

Test ID 3

Test Focus: Login Page functionality

Test Case	1						
Prepared By	Stephan Schuller						
Version Number	1.5 [Updated 5-9-23]						
Objective	verify LogIn class page allows credentials to be validated, and grant user access to the Kare desktop application. (Steps :1)						
Conditions	Kare_App.py OR Kare_App.exe has loaded login_page.py						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	login_page.py	Valid Email/ Password	Validation/ Progression	Credentials not validated	F	3	Megan Phinney

Comments:

Credentials not validated normally. Navigation not successful

Issues:

Entering Ip address may still create "stalled" error where nothing happens and there is no error dialog to say what is happened

In the case of no internet connection or incorrect ip address.

Recommendation:

Add error checking and error dialog for Ip address

Resolution:

Error Dialog Box added.

Test ID 4

Test Case	2
Prepared By	Stephan Schuller
Version Number	1 [Created 04/08/23]
Objective	Verify LogIn page is working correctly denying invalid credentials from being validated and prevent unauthorized access to the Kare desktop application. (Steps: 1)
Conditions	Kare_App.py OR Kare_App.exe has loaded login_page.py

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	login_page.py	Invalid Email/ Password	Invalidation/ Denied Access	Access denied	P	4	Stephan S.

Comments:

The rejection error states "Email or Password' which is semi helpful

Issues:

Vague wording presents larger barrier to non-technical users

Recommendations:

If possible, add specific rejection for Email and/or Password

Resolution:

This is not a big issue and therefore will be done if there is time after other requirements are met.

Test ID 5
Test Focus: login_page.py Functionality

Test Case	3						
Prepared By	Stephan Schuller						
Version Number	1 [Created 04/08/23]						
Objective	Verify Login Page is navigating to HomePage class after validation of credentials from Login Page (Steps: 1)						
Conditions	User has Entered Valid Credentials in Login Page and those Credentials have passed validation. Source: login_page.py						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	login_page.py	valid Email/ Password	Automatic Forwarding to HomePage	Forward successful	P	5	Megan P

Comments:

Forwarding is automatic if Validation is successful.

Test ID 6
Test Focus: Login_Page.py functionality

Test Case	1						
Prepared By	Stephan Schuller						
Version Number	1.5 [Updated 5-9-23]						
Objective	verify LogIn class page allows credentials to be validated, and grant user access to the Kare desktop application. (Steps :1)						
Conditions	Kare_App.py OR Kare_App.exe has loaded login_page.py						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	login_page.py	Valid Email/ Password	Validation/ Progression	Page Stalls no notification and HomePage class is not created	F	6	Megan P.

Comments:

Fowarding to Home_page.py and creation of HomePage class does not occur

Issues:

Lack of internet connection prevents confirmation of Email and Password, because this is an IP connection error there is no Error popup for unable to connect

Recommendation:

[Short Term] Make sure that there is an internet connection.

[Long Term] Have Ip address connection confirmation or Error dialog if unsuccessful.

Resolution:

Additional verification for IP address will be added in future version of login_page.py and api.py

Test ID 7

Test Case	4
Prepared By	Stephan Schuller
Version Number	1.5 [Updated 5/12/23]
Objective	Verify HomePage class is properly loading and displaying toolbar, toolbar buttons have correct images and all dropdowns are present (Steps: 1-3)
Conditions	login_page.py has properly navigated forward to the HomePage class. Data_entry_page.py has properly navigated to "New_Graph" tool Log_page.py has properly navigated to "New-Graph" tool. Statisticas_page.py has properly navigated to "New-Graph" tool.

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	N/A	Automatic Loading of "toolbar" and dropdown Elements	Loaded	F	7	Megan P.
2	Home_page.py	N/A	Automatic loading of Canvas	Loaded	F		"
3	Home_page.py	N/A	Automatic loading of "Data" Control section	Loaded	F		"

Comments:

When Home-Page.py is navigated to from LogPage, or StatisticsPage Classes the HomePage Class is not created, and the elements do not load.

Issues:

The TkInter code present on Log_page.py and Statistics_page.py do not point to the correct class.

Recommendation:

Correct TKInter code on log_page.py and statistics_page.py, so when the LogPage and StatisticsPage Classes are created their buttons for "New_Graph" navigate correctly and create the HomePage Class.

Resolution:

TKInter code corrected on log_page.py and statistcics_page.py

Test ID 8

Test Case	4
Prepared By	Stephan Schuller
Version Number	1.5 [Updated 5/12/23]
Objective	Verify HomePage class is properly loading and displaying toolbar, toolbar buttons have correct images and all dropdowns are present (Steps: 1-3)
Conditions	login_page.py has properly navigated forward to the HomePage class. Data_entry_page.py has properly navigated to "New_Graph" tool Log_page.py has properly navigated to "New-Graph" tool. Statisticas_page.py has properly navigated to "New-Graph" tool.

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	N/A	Automatic Loading of "toolbar" and dropdown Elements	Loaded	P		Megan P.
2	Home_page.py	N/A	Automatic loading of Canvas	Loaded	P		"
3	Home_page.py	N/A	Automatic loading of "Data" Control section	Loaded	P	8	"

Comments:

When Home_page.py is auto navigated to from Login_page.py the HomePage Class is created and all elements load.

When New Graph Button is selected from alternative sources, DataEntrPage, LogPage, or Statistics Page. The navigation and loading is successful

Test ID 9

Test Case	5
Prepared By	Stephan Schuller
Version Number	1 [Created 4/24/23]
Objective	Verify HomePage "Import – From File" button loads "Select a File" dialog, and dialog shows appropriate file types, file data is available in Kare desktop app (Steps: 1-5)
Conditions	HomePage class is loaded.

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	select "Import – From File" button	Select A File Dialog Opens	Success	P		Stephan S
2	home_page.py	N/A	Any appropriate file types are displayed	Success	P		"
3	home_page.py	Select file from dialog	File is brought into select field.	Success	P		"
4	home_page.py	Selecting "Open"	Dialog Disappears	Success	P		"
5	home_page.py	Select from "Dataset" dropdown	Opened file is present to select	success	P	9	"

Comments:

Because the dataset is always database.json – there is actually no indication which dataset is being use unless it is viewed from a dropdown in New-Graph or View_Plots

Recommendations:

Is there some way to have it be visible on the toolbar which dataset is currently active in the program?

Resolution:

This change is not feasible since every Class (HomePage, StatisticsPage, LogPage requires individual selection.

Test ID 10

Test Case	6
Prepared By	Stephan Schuller
Version Number	1 [Created 4/24/23]
Objective	Verify HomePage "Import – Data Sync" button retrieves updates to database.json, database.json is available to select from "Dataset" dropdown (Steps: 1-2)
Conditions	HomePage OR Log-page, OR Statistics Page, Class Or DataEntryPage class been loaded.

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	See conditional Class	select "Import – Data Sync" button	(No Visual Indicator)	Success	P		Megan P.
2	See Conditional Class	Select from "Dataset" dropdown	Synced database.json file is present to select	Success	P	10	Megan P.

Comments:

There is no indication that the data has been synced.

Recommendation:

There are two main improvements possible 1) That there is a popup dialog that states "Data Synced Successfully" 2.) There should be some way to delete older data from the cloud database if desired

Resolution:

A check will see how old the oldest data is on the dataset, will offer to delete data from cloud database. If over 1 month old.

Test ID 11

Test Case	7
Prepared By	Stephan Schuller
Version Number	1.5 [Updated 5/12/23]
Objective	Verify HomePage or StatisticsPage class "Export- Graph" tool exports a PNG file to permanent storage. (Steps: 1-5A)
Conditions	HomePage OR StatisticsPage class is loaded. A graph has been generated using Data or Statistics Controls

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py OR Statistics_page.py	select "Export - Graph" button	Save As dialog opens	Succ	P		Megan P.
2	home_page.py OR Statistics_page.py	Enter desired name of file in dialog	The text appears in field	Succ	P		"
3A	home_page.py OR Statistics_page.py	Select Save Button	Dialog Disappears	Succ	P		"
3B	home_page.py OR Statistics_page.py	Select Cancel Button	Dialog Disappears	Succ	P		"
4A	Windows Explore	Search for Name file in Save location	Named File Exists	Succ	P		"
5A	Windows Explore	Open Saved File	File Contains Appropriate facsimile of Graph	succ	P	11	"

Comments:

Working as intended.

Test ID 12

Test Case	8
Prepared By	Stephan Schuller
Version Number	1.4 [Updated 4/28/23]
Objective	Verify HomePage "Export- Data" button exports a CSV or JSON file to permanent storage. (Steps: 1 - 5Ba)
Conditions	HomePage class is loaded. A data is loaded using Import- Sync Data, or Import – From File

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	select "Export - Data" button	Save As dialog opens	Succ	P		Megan P
2	home_page.py	Enter desired name of file in dialog	The text appears in field	Succ	P		"
3A	home_page.py	Select "Save as Type" CSV	CSV is populated as type in field	Succ	P		"
3B	home_page.py	Select "Save as Type" JSON	JSON is populated as type in field	Succ	P		"
4Aa, Ba	home_page.py	Select Save Button	Dialog Disappears	Succ	P		"
4Ab, B,b	home_page.py	Select Cancel Button	Dialog Disappears	Succ	P		"
5Aa	Windows Explore	Search for Name file in Save location	Named File Exists	Succ	P		"
5Ba	Windows Explore	Search for Name file in Save location	Named File Exists	succ	P	12	"

Comments:

Working however there may be some issue with the contents of the exported data.

Test ID 13

Test Case	8
Prepared By	Stephan Schuller
Version Number	1.4 [Updated 4/28/23]
Objective	Verify HomePage "Export- Data" button exports a CSV or JSON file to permanent storage. (Steps: 1 - 5Ba)
Conditions	HomePage class is loaded. A data is loaded using Import- Sync Data, or Import – From File

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	select "Export - Data" button	Save As dialog opens	Succ	P		Megan P
2	home_page.py	Enter desired name of file in dialog	The text appears in field	Succ	P		"
3A	home_page.py	Select "Save as Type" CSV	CSV is populated as type in field	Succ	P		"
3B	home_page.py	Select "Save as Type" JSON	JSON is populated as type in field	Succ	P		"
4Aa, Ba	home_page.py	Select Save Button	Dialog Disappears	Succ	P		"
4Ab, B,b	home_page.py	Select Cancel Button	Dialog Disappears	Succ	P		"
5Aa	Windows Explore	Search for Name file in Save location	Named File Exists	Succ	P		"
5Ba	Windows Explore	Search for Name file in Save location	Named File Exists	succ	P	13	"

Comments:

Contents of Save file does not contain the entirety of the dataset

Test ID 13 Cont.

Issues:

Selected features inside HomePage Class alters what is saved inside the CSV or JSON file

Recommendation:

Fix HomePage Class error inside export_data function

Resolution:

Issues corrected as described.

Test ID 14

Test Case	8
Prepared By	Stephan Schuller
Version Number	1.4 [Updated 4/28/23]
Objective	Verify HomePage "Export- Data" button exports a CSV or JSON file to permanent storage. (Steps: 1 - 5Ba)
Conditions	HomePage class is loaded. A data is loaded using Import- Sync Data, or Import – From File

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	select "Export - Data" button	Save As dialog opens	Succ	P		Megan P
2	home_page.py	Enter desired name of file in dialog	The text appears in field	Succ	P		"
3A	home_page.py	Select "Save as Type" CSV	CSV is populated as type in field	Succ	P		"
3B	home_page.py	Select "Save as Type" JSON	JSON is populated as type in field	Succ	P		"
4Aa, Ba	home_page.py	Select Save Button	Dialog Disappears	Succ	P		"
4Ab, B,b	home_page.py	Select Cancel Button	Dialog Disappears	Succ	P		"
5Aa	Windows Explore	Search for Name file in Save location	Named File Exists	Succ	P		"
5Ba	Windows Explore	Search for Name file in Save location	Named File Exists	succ	P	14	"

Comments:

Working as intended

Test ID 15

Test Case	9
Prepared By	Stephan Schuller
Version Number	1 [Created 4/24/23]
Objective	Verify HomePage "New- Graph" is capable of retrieving correct attributes from dropdowns (Steps 1- 8)
Conditions	HomePage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Select from "Dataset" dropdown	Selected dataset is in field	Succ	P		Stephan S
2	home_page.py	Select from "Attribute" dropdown	Database Attributes are present	Succ	P		"
3	home_page.py	Select Attribute from dropdown	Selected Attribute is in field	Succ	P		"
4	home_page.py	Select from X axis	Attribute, Num, Text, Date are present	Succ	P		"
5	home_page.py	Select from X axis from Dropdown	Selected Num, Text, Date is in field	Succ	P		"
6	Home_page.py	Select from Y Axis	Attribute Num, Text, Date are present	Succ	P		"
7	home_page.py	Select from Y axis from Dropdown	Selected Num, Text, Date is in field	Succ	P		"
8	Home_page.py	Select Date from TK Calendar	Tk Calendar is functional	Graphical Error	F	15	"

Test ID 15 Cont.

Comments:

A Graphical Error appears when both calendars are opened at the same time, they overlap and a persistent image of the calendar is on the desktop even when the program is minimized.

Issues:

The issue causing this error is unknown, perhaps the TK Calendar widget is not meant to have 2 instantiations at the same time.

Recommendation:

This issue should be resolved if possible, however should take lower priority compared to other bug fixes.

Resolution:

This bug was never addressed in the current version.

Test ID 16

Test Case	9
Prepared By	Stephan Schuller
Version Number	1 [Created 4/24/23]
Objective	Verify HomePage "New- Graph" is capable of retrieving correct attributes from dropdowns (Steps 1- 8)
Conditions	HomePage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Select from "Dataset" dropdown	Selected dataset is in field	Succ	P		Stephan S
2	home_page.py	Select from "Attribute" dropdown	Database Attributes are present	Succ	P		"
3	home_page.py	Select Attribute from dropdown	Selected Attribute is in field	Succ	P		"
4	home_page.py	Select from X axis	Attribute, Num, Text, Date are present	Succ	P		"
5	home_page.py	Select from X axis from Dropdown	Selected Num, Text, Date is in field	Succ	P		"
6	Home_page.py	Select from Y Axis	Attribute Num, Text, Date are present	Succ	P		"
7	home_page.py	Select from Y axis from Dropdown	Selected Num, Text, Date is in field	Succ	P		"
8	Home_page.py	Select Date from TK Calendar	Tk Calendar is functional	Graphical Error	P	16	"

Comments:

Working as Intended

Test ID 17

Test Case	10
Prepared By	Stephan Schuller
Version Number	1 [Created 4/24/23]
Objective	Verify HomePage "New- Graph" button is able to select appropriate plot types, and generate appropriate graphs (Steps 1 - 3)
Conditions	HomePage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File – DropDowns have been filled

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Select from "Chart Type" Dropdown	Appropriate chart types are present based on attribute	succ	P		Stephan S.
2	home_page.py	Select Chart Type from Dropdown	Chart Type is present in field	Succ	P		"
3	home_page.py	Select "Generate" button	Appropriate Plot is created in Homepage Canvas	succ	P	17	"

Comments:

Uses inclusionary selection for Chart types from Select_XY function in Home_page.py

If XAxis (or YAxis) is in eg (Scatter Type) it is included in the chart drop down.

Issues:

A lack of data points make some of the charts lack luster.

Recommendation:

Is there someway to include an error or notification popup when there aren't enough datapoints

Resolution:

Including an exclusionary chart type is not feasible for this version.

Test ID 18

Test Case	11
Prepared By	Stephan Schuller
Version Number	1.5 [Updated 5/12/23]
Objective	Verify HomePage "New-Record" button is able to Navigate to DataEntryPage class (Steps: 1 – 2)
Conditions	HomePage OR LogPage, or StatisticsPage class is loaded,

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py OR Log_page.py OR Statistics_page.py	Select "New-Record" button from toolbar	Navigation to DataEntryPage class	Succ	P		Zak K.
2	Data_entry_page.py	N/A	Automatic Loading of "toolbar" and dropdown Elements	Succ	P	18	Zak K.

Comments:

Working as Intended from all sources.

Test ID 19

Test Case	12						
Prepared By	Stephan Schuller						
Version Number	1 [Created 4/24/23]						
Objective	Verify DataEntryPage class loads dropdowns and text fields as appropriate. (Steps: 1 - 3)						
Conditions	DataEntryPage class is loaded						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	data_entry_page.py	Select "Care Dropdown	Appropriate care types are present	succ	P		Megan P
2	data_entry_page.py	Select Care Type from Dropdown	Care type is set and new appropriate fields appear	Succ	P		Megan P
3	data_entry_page.py	Select Field and enter data	Data is maintained in field	Succ	P	19	Megan P

Comments:

Working as intended.

Test ID 20

Test Case	13							
Prepared By	Stephan Schuller							
Version Number	1 [Created 4/24/23]							
Objective	Verify DataEntryPage creates new Event on Save and is retrievable. (Steps: 1 – 3A)							
Conditions	DataEntryPage class is loaded							
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By	
1	data_entry_page.py	Save Button Is selected	"Record Entered Successfully" dialog appears	Succ	P		Megan P.	
2	data_entry_page.py	Select " ok"	Dialog disappears and screen is ready for additional record entry	Succ	P		"	
3A	Home_page.py	Use Import "Data-Sync"	New record is available in "New_graph" "View-Log" and "View_Plot"	Error	F	20	"	

Comments:

It is possible to enter "nonsense" time and date entries that will break the retrieval of the Event.

Issues:

The format of the time and date will create an error upon the GetEvents function inside api.py

Recommendation:

Validate and clean input for time and date. to ensure they are reasonable for storage on cloud server and retrieval.

Resolution:

Dates and times are validated before saving to cloud database

Test ID 21

Test Case	13						
Prepared By	Stephan Schuller						
Version Number	1 [Created 4/24/23]						
Objective	Verify DataEntryPage creates new Event on Save and is retrievable. (Steps: 1 – 3)						
Conditions	DataEntryPage class is loaded						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	data_entry_page.py	Save Button Is selected	"Record Entered Successfully" dialog appears	Succ	P		Megan P
2	data_entry_page.py	Select " ok"	Dialog disappears and screen is ready for additional record entry	Succ	P		"
3	Home_page.py	Use Import "Data-Sync"	New record is available in "New_graph" "View-Log" and "View_Plot"	Succ	P	21	"

Comments:

Working as Intended

Test ID 22

Test Case	14						
Prepared By	Stephan Schuller						
Version Number	1.5 [Updated 5/12/23]						
Objective	Verify log_page.py loads correctly and can be interacted with (Steps : 1- 4AB)						
Conditions	HomePage class OR DataEntryPage class OR StatisticsPage class is loaded						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Home_page.py OR Data_Entry_page.py OR Statistics_page.py	View_Log Button is selected	LogPage class is loaded	Succ	P		Zak K.
2.	Log_page.py	Select Dataset Dropdown	Select a databset File dialog opens	succ	P		Zak K.
3A	Log_page.py	Select Event Dropdown	Dropdown has event types to select	succ	P		Zak K.
3B	Log_page.py	Select Date Range Radio Buttons	Radio Buttons save selection	succ	P		Zak K.
4AB	Log_page.py	Select Load Button	Event list is generated on left side of screen	succ	P	22	Zak K.

Comments:

Working As intended

Test ID 23

Test Case	15
Prepared By	Stephan Schuller
Version Number	1 [Created 5/17/23]
Objective	Verify log_page.py properly loads selected Dataset File (Steps : 1 – 4B)
Conditions	LogPage class is loaded, there is a dataset (previously saved) to select.

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Log_page.py	Select Dataset Dropdown	Select a dataset File dialog opens	Succ	P		Zak K.
2	Log_page.py	File Dialog allows Windows style navigation	Select a dataset File dialog opens	Succ	P		Zak K.
3	Log_page.py	Select file type	Select a Dataset File Dialog shows appropriate file types when selected	Succ	P		Zak K.
4A	Log_page.py	Select Open	Dialog closes "No Selected File" indicator is changed to {filename}	Succ	P		Zak K.
4B	Log_page.py	Select Cancel	Dialog closes no other changes occur	Succ	P	23	Zak K.

Comments:

It is not as easy to navigate to find the desired dataset.

Issues:

The Dialog does not automatically navigate to the Kare root folder.

Test ID 23 Cont.

Recommendation:

Have the dialog navigate to the Kare root folder both for saving and loading datasets. to encourage users to save all data in one place.

Resolution:

This is low priority and will not be addressed until other requirements are delivered.

Test ID 24

Test Case	16
Prepared By	Stephan Schuller
Version Number	1
Objective	Verify LogPage class dropdowns, radio buttons, and Load button function (Steps: 1 – 4)
Conditions	LogPage class is loaded, and a Dataset is verified selected

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Log_page.py	Select "Select Event" Dropdown	Drop down is populate with appropriate events	Succ	P		Zak K.
2	Log_page.py	Select event type from dropdown	Event type is pinned to dropdown selector	Succ	P		Zak K.
3	Log_page.py	Select date range from radio buttons	Appropriate date range remains selected	Succ	P		Zak K.
4	Log_page.py	Select Load Button	Appropriate Filtered Event Type and Date Events are Displayed	Succ	P	24	Zak K.

Comments:

Working as intended

Test ID 25

Test Case	17						
Prepared By	Stephan Schuller						
Version Number	1.5 [Updated 5/17/23] Upated TK Interface						
Objective	Verify LogPage class dropdowns, radio buttons, and Load button function (Steps: 1 – 4)						
Conditions	LogPage class is loaded, and a Dataset is verified selected						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Log_page.py	Select "Select Event"Dropdown	Drop down is populate with appropriate events	Succ	P		Zak K
2	Log_page.py	Select event type from dropdown	Event type is pinned to dro[pdown selector	Succ	P		Zak K
3	Log_page.py	Select date range from radio buttons	Appropriate date range remains selected	Succ	P		Zak K
4	Log_page.py	Select Load Button	Appropriate Filtered Event Type and Date Events are Displayed	Succ	P	25	Zak K

Comments:

Working as intended

Test ID 26

Test Case	18
Prepared By	Stephan Schuller
Version Number	1[Created 5/09/23]
Objective	Verify LogPage class Canvas is Event "on click" functionality to display Event Details (Steps: 1),
Conditions	LogPage class is loaded, and a Dataset is verified selected, Dropdowns and filters have been completed a Events have been loaded in LogPage Canvas Left.

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Log_page.py	Select an Event from LogPage Canvas Left	Specific Event Details are Displayed on Right.	Displayed Correctly In correct Canvas Location	P	26	Zak K

Comments:

Working as Intended

Test ID 27

Test Case	19
Prepared By	Stephan Schuller
Version Number	1.2
Objective	Verify LogPage class Canvas is Event "on click" functionality to display Event Details (Steps: 1),
Conditions	LogPage class is loaded, and a Dataset is verified selected, Dropdowns and filters have been completed a Events have been loaded in LogPage Canvas Left.

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Log_page.py	Select an Event from LogPage Canvas Left	Specific Event Details are Displayed on Right.	No results are displayed	F	27	Zak K.

Comments:

Testing iterations for displaying JSON details in LogPage class Canvas

Issues:

Structure of JSON is complex as list of dictionaries with final dictionary key "Attributes" pointing to another list of dictionaries.

Recommendation :

[Short Term] Repair Log_page.py to accept and display list of dictionaries of list of dictionaries

[Long Term] permanent storage as JSON is not ideal, and also lacking in security, consider alternatives.

Resolution:

Short term recommendation completed. Long Term recommendation is not feasible -as too many changes would be required to all other code to make his change in the current version.

Test ID 28

Test Case	19
Prepared By	Stephan Schuller
Version Number	1.5 [Updated 5/17/23] Updated TK Interface
Objective	Verify LogPage class Canvas is Event "on click" functionality to display Event Details (Steps: 1),
Conditions	LogPage class is loaded, and a Dataset is verified selected, Dropdowns and filters have been completed a Events have been loaded in LogPage Canvas Left.

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Log_page.py	Select an Event from LogPage Canvas Left	Specific Event Details are Displayed on Right.	Displayed Correctly In correct Canvas Location	P	28	Zak K,

Comments:

Working as Intended

Test ID 29

Test Case	20
Prepared By	Stephan Schuller
Version Number	1
Objective	Verify StatisticsPage "View-Plots" is capable of retrieving correct attributes from dropdowns (Steps : 1-12)[2 Pages]
Conditions	StatisticsPage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Statistics_page.py	Select from "Dataset" dropdown	Selected dataset is in field	Succ	P		Stephan S
2	Statistics_page.py	Select "Attribute 1" dropdown	Database Attributes are present	Succ	P		Stephan S
3	Statistics_page.py	Select Attribute 1 from dropdown	Selected Attribute is in field	Succ	P		Stephan S
4	Statistics_page.py	Select Metric dropdown	Attribute, Num, Text, Date are present	Succ	P		Stephan S
5	Statistics_page.py	Select from Metric from Dropdown	Selected Num, Text, Date is in field	Succ	P		Stephan S
6	Statistics_page.py	Select "Attribute 2" dropdown	Database Attributes are present	Succ	P		Stephan S
7	Statistics_page.py	Select Attribute 2 from dropdown	Selected Attribute is in field	Succ	P		Stephan S
8	Statistics_page.py	Select Metric dropdown	Attribute, Num, Text, Date are present	Succ	P		Stephan S
9	Statistics_page.py	Select from Metric from Dropdown	Selected Num, Text, Date is in field	Succ	P		

10	Statistics_page.py	Select Gridline Attribute Dropdown	Database Attributes are present	Succ	P		Stephan S
11	Statistics_page.py	Select Gridline Attribute From dropdown	Selected Attribute is in field	Succ	P		Stephan S
12	statistics_page.py	Select Date from TK Calendar	Tk Calendar is functional	Succ	P	29	Stephan S

Comments:

The selected_x and select_y function are not working correctly, to included chart types. This will not break the software, but some plots simply will not work with certain metrics.

Issues:

Selection needs to be altered to allow for inclusion of plot types like Home_page. Select_xy function.

Recommendations:

Prioritize getting all plot types working correctly before filtering plot types.

Resolution:

Not resolved

Test ID 30

Test Case	21
Prepared By	Stephan Schuller
Version Number	1
Objective	Verify StatisticsPage "View-Plots" is capable of retrieving correct attributes from dropdowns (Steps : 1-12)[2 Pages]
Conditions	StatisticsPage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Statistics_page.py	Select from "Chart Type" Dropdown	Appropriate chart types are present based on attribute	Displayed but not filtered	P		Stephan S.
2	Statistics_page.py	Select Chart Type from Dropdown	Chart Type is present in field	Succ	P		
3A	Statistics_page.py	Select Clear Fields Button	Fields are cleared	Succ	P		
3B	Statistics_page.py	Select Generate Button	Appropriate Plot is created in StatisticsPage Canvas	Succ	P	30	

Comments:

The selected_x and select_y function are not working correctly,to included chart types. This will not break the software, but some plots simply will not work with certain metrics

Issues:

Selection needs to be altered to allow for inclusion of plot types similar to Home_page. Select_xy function

Recommendations:

Prioritize getting all plot types working correctly before filtering plot types

Resolution:

Not resolved

Test ID 31

Test Focus: home_page.py functionality (New – Graph)

Test Case	9
Prepared By	Stephan Schuller
Version Number	1 [Created 4/24/23]
Objective	Verify HomePage "New- Graph" is capable of retrieving correct attributes from dropdowns (Steps 1- 8)
Conditions	HomePage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Select from "Dataset" dropdown	Selected dataset is in field	Succ	P		Megan P.
2	home_page.py	Select from "Attribute" dropdown	Database Attributes are present	Succ	P		"
3	home_page.py	Select Attribute from dropdown	Selected Attribute is in field	Succ	P		"
4	home_page.py	Select from X axis	Attribute, Num, Text, Date are present	Unknown Error	F	31	
5	home_page.py	Select from X axis from Dropdown	Selected Num, Text, Date is in field				
6	Home_page.py	Select from Y Axis	Attribute Num, Text, Date are present				
7	home_page.py	Select from Y axis from Dropdown	Selected Num, Text, Date is in field				
8	Home_page.py	Select Date from TK Calendar	Tk Calendar is functional				

Test ID 31 Cont

Comments:

Unknown error is occurring, this was previously working, this action was performed in an attempt to test other systems, this function was confirmed working before but now does not function

Issues:

Log states time (type integer) does not match formatting %Y-%M-%DT%H-%M-%SZ

Something has changed to create this format change on the server.

Recommendations:

Discover cause of format change, time is assumed to match %Y-%M-%DT%H-%M-%SZ format throughout program though many classes and many methods, fixing the root of this problem is more feasible than adjusting the entire desktop ecosystem.

Resolution:

Mobile team had to change the format of time to make special "Pre-Events" schedules work. Events are the line items that are retrieved from the database. However ,when those Schedules are confirmed into line item Events, they can be retrieved into the Desktop application which cannot handle them.

[Short Term] Add if else statement anywhere time might be processed by desktop application to simply ignore those items. home_page.py, statistics_page.py

[Long Term] The desktop application should be rebuilt to handle proper time events such as the Mobile application has been done (in future version).

Test ID 32

Test Focus: home_page.py functionality (New – Graph)

Test Case	9						
Prepared By	Stephan Schuller						
Version Number	1 [Created 4/24/23]						
Objective	Verify HomePage "New- Graph" is capable of retrieving correct attributes from dropdowns (Steps 1- 8)						
Conditions	HomePage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Select from "Dataset" dropdown	Selected dataset is in field	Succ	P		Megan P.
2	home_page.py	Select from "Attribute" dropdown	Database Attributes are present	Succ	P		"
3	home_page.py	Select Attribute from dropdown	Selected Attribute is in field	Succ	P		"
4	home_page.py	Select from X axis	Attribute, Num, Text, Date are present	Succ	P		"
5	home_page.py	Select from X axis from Dropdown	Selected Num, Text, Date is in field	Succ	P		"
6	Home_page.py	Select from Y Axis	Attribute Num, Text, Date are present	Succ	P		"
7	home_page.py	Select from Y axis from Dropdown	Selected Num, Text, Date is in field	Succ	P		"
8	Home_page.py	Select Date from TK Calendar	Tk Calendar is functional	Succ	P	32	"

TEST ID 32 cont.

Comments:

Working as intended

Test ID 33

Test Focus: home_page.py functionality (New – Graph)

Test Case	9						
Prepared By	Stephan Schuller						
Version Number	1 [Created 4/24/23]						
Objective	Verify HomePage "New- Graph" is capable of retrieving correct attributes from dropdowns (Steps 1- 8)						
Conditions	HomePage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Select from "Dataset" dropdown	Selected dataset is in field	Succ	P		Megan P.
2	home_page.py	Select from "Attribute" dropdown	Database Attributes are present	Succ	P		"
3	home_page.py	Select Attribute from dropdown	Selected Attribute is in field	Succ	P		"
4	home_page.py	Select from X axis	Attribute, Num, Text, Date are present	Succ	P		
5	home_page.py	Select from X axis from Dropdown	Selected Num, Text, Date is in field	Succ	P		
6	Home_page.py	Select from Y Axis	Attribute Num, Text, Date are present	Succ	P		
7	home_page.py	Select from Y axis from Dropdown	Selected Num, Text, Date is in field	Succ	P		
	Home_page.py	Select Date from TK Calendar	Tk Calendar is functional	Succ	P	33	

Test ID 33 Cont.

Comments:

If else statement implemented for suggested short term fix. Working as intended.

Test ID 34

Test Case	20						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify StatisticsPage "View-Plots" is capable of retrieving correct attributes from dropdowns (Steps : 1-12)[2 Pages]						
Conditions	StatisticsPage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Statistics_page.py	Select from "Dataset" dropdown	Selected dataset is in field	Succ	P		Stephan S
2	Statistics_page.py	Select "Attribute 1" dropdown	Database Attributes are present	Succ	P		Stephan S
3	Statistics_page.py	Select Attribute 1 from dropdown	Selected Attribute is in field	Similar Error Described Test ID 32	F	34	Stephan S
4	Statistics_page.py	Select Metric dropdown	Attribute, Num, Text, Date are present				Stephan S
5	Statistics_page.py	Select from Metric from Dropdown	Selected Num, Text, Date is in field				Stephan S
6	Statistics_page.py	Select "Attribute 2" dropdown	Database Attributes are present				Stephan S
7	Statistics_page.py	Select Attribute 2 from dropdown	Selected Attribute is in field				Stephan S
8	Statistics_page.py	Select Metric dropdown	Attribute, Num, Text, Date are present				Stephan S
9	Statistics_page.py	Select from Metric	Selected Num, Text,				

		from Dropdown	Date is in field				
10	Statistics_page.py	Select Gridline Attribute Dropdown	Database Attributes are present				Stephan S
11	Statistics_page.py	Select Gridline Attribute From dropdown	Selected Attribute is in field				Stephan S
12	statistics_page.py	Select Date from TK Calendar	Tk Calendar is functional				Stephan S

Comments:

Test ID 31 Error occurring on different page home_page.py VS statistics_page.py this function was confirmed working before but now does not function

Issues:

Log states time (type integer) does not match formatting %Y-%M-%DT%H-%M-%SZ

Mobile team has added alternate date/time type which desktop cannot handle

Recommendations:

Make similar changes recommend Test ID 31

Resolution:

[Short Term] Add if else statement anywhere time might be processed by desktop application to simply ignore those items. home_page.py, statistics_page.py

[Long Term] The desktop application should be rebuilt to handle proper time events such as the Mobile application has been done (in future version).

Test ID 35

Test Case	20
Prepared By	Stephan Schuller
Version Number	1
Objective	Verify StatisticsPage "View-Plots" is capable of retrieving correct attributes from dropdowns (Steps : 1-12)[2 Pages]
Conditions	StatisticsPage class is loaded, A dataset is loaded using Import- Sync Data or Import – From File

Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	Statistics_page.py	Select from "Dataset" dropdown	Selected dataset is in field	Succ	P		Stephan S
2	Statistics_page.py	Select "Attribute 1" dropdown	Database Attributes are present	Succ	P		Stephan S
3	Statistics_page.py	Select Attribute 1 from dropdown	Selected Attribute is in field	Succ	P		Stephan S
4	Statistics_page.py	Select Metric dropdown	Attribute, Num, Text, Date are present	Succ	P		Stephan S
5	Statistics_page.py	Select from Metric from Dropdown	Selected Num, Text, Date is in field	Succ	P		Stephan S
6	Statistics_page.py	Select "Attribute 2" dropdown	Database Attributes are present	Succ	P		Stephan S
7	Statistics_page.py	Select Attribute 2 from dropdown	Selected Attribute is in field	Succ	P		Stephan S
8	Statistics_page.py	Select Metric dropdown	Attribute, Num, Text, Date are present	Succ	P		Stephan S
9	Statistics_page.py	Select from Metric	Selected Num, Text,	Succ	P		

		from Dropdown	Date is in field				
10	Statistics_page.py	Select Gridline Attribute Dropdown	Database Attributes are present	Succ	P		Stephan S
11	Statistics_page.py	Select Gridline Attribute From dropdown	Selected Attribute is in field	Succ	P		Stephan S
12	statistics_page.py	Select Date from TK Calendar	Tk Calendar is functional	Succ	P	35	Stephan S

Comments:

If / else statement added to ignore lines with "schedule- type" time. Working as intended

Test ID 36

Test Focus: home_page.py output (New – Graph)

Test Case	22						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify home_page.py (New-Graph) tool is generating graphs of intended content and quality, (Steps: 5)						
Conditions	Home_page.py has HomePage Class loaded, the Data Controls have been filled correctly and the "Generate" button has been pressed						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Generate Button has been pressed	Appropriate Chart Type is Shown	Succ	P		Megan P.
2	home_page.py	Cont.	Appropriate X Axis is shown	Succ	P		
3	home_page.py	Cont.	Appropriate X Ticks are shown	Succ	P		
4	home_page.py	Cont.	Appropriate Y Axis is shown	Succ	P		
5	home_page.py	Cont.	Appropriate Y- Ticks are shown	Ticks are shown hourly only no minutes	F	36	

Comments:

If Y axis is set to time, Y ticks are not formatted correctly showing only hours and not minutes leading to multiple ticks all saying the same time for events eg "9"

Issues:

Formatting for plot display in charting.py is not correct

Recommendation:

Change formatting for function generate_scatter_legend() to display hours and minutes on time axis (x or y)

Resolution:

Formatting changed for generate_scatter_legend() plot in charts.py

Test ID 37

Test Focus: home_page.py output (New – Graph)

Test Case	22							
Prepared By	Stephan Schuller							
Version Number	1							
Objective	Verify home_page.py (New-Graph) tool is generating graphs of intended content and quality, (Steps: 5)							
Conditions	Home_page.py has HomePage Class loaded, the Data Controls have been filled correctly and the "Generate" button has been pressed							
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Generate Button has been pressed	Appropriate Chart Type is Shown	Succ	P		Megan P.
2	home_page.py	Cont.	Appropriate X Axis is shown	Succ	P		
3	home_page.py	Cont.	Appropriate X Ticks are shown	Succ	P		
4	home_page.py	Cont.	Appropriate Y Axis is shown	Succ	P		
5	home_page.py	Cont.	Appropriate Y- Ticks are shown	Succ	P	37	

Comments:

Time ticks are now displaying accurately.

Test ID 38

Test Focus: home_page.py output (New – Graph)

Test Case	23						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify home_page.py (New-Graph) tool is generating graphs of intended content and quality, (Steps: 2)						
Conditions	Home_page.py has HomePage Class loaded, the Data Controls have been filled correctly and the "Generate" button has been pressed						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Graph with Date metric has been Created	Date is displayed (formatted) correctly	Date displayed correctly (month day)			Stephan S.
2	home_page.py	Cont.	Date is Trimmed Correctly	Date is not trimmed correctly	F	38	

Comments:

Date is not trimmed correctly for 1 day events.

Issues:

Number of bins is not dynamic so lack of data creates multi-year plot

Recommendation:

Make the plot display trimmed dates as ticks dynamically

Resolution:

There are other problems to account for the creation of plots with limited data Assumptions about the type of data, make the problem worse in both directions. If there is too much or too little data the plot ticks will give unexpected results because of MatplotLib optimization.

UNRESOLVED

Test ID 39

Test Focus: home_page.py output (New – Graph)

Test Case	24						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify home_page.py (New-Graph) tool is generating graphs of intended content and quality, (Steps: 1)						
Conditions	Home_page.py has HomePage Class loaded, the Data Controls have been filled correctly and the "Generate" button has been pressed						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	home_page.py	Graph with Time metric has been Created	Time is displayed (formatted) correctly	Time correctly displayed	P		Stephan S

Comments:

See Test ID 36 and 37 for more information

Working as intended.

Test ID 40

Test Focus: statistics_page.py output (View - Plot)

Test Case	25						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify statistics_page.py (View -Plot) tool is generating graphs of intended content and quality, (Steps: 5)						
Conditions	Statistics_page.py has StatisticsPage Class loaded, the Data Controls have been filled correctly and the "Generate" button has been pressed						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	statistics_page.py	Graph with Date metric has been Created	Date is displayed correctly.	Date is an JAN 1			Stephan Schuller
2	statistics_page.py	Cont.	Date is Trimmed Correctly	Date all Jan 1			
3	statistics_page.py	Cont.	Appropriate X Ticks are shown	Ticks are properly spaced			
4	statistics_page.py	Cont.	Appropriate Y Axis is shown	Times are all 12			
5	statistics_page.py	Cont.	Appropriate Y- Ticks are shown	Ticks are properly spaced	F	40	

Comments:

On time and Date scatter plot the time are all 12 and the dates are all Jan 1, although they appear to be spaced correctly and recording scatter in the proper "shape" the labels are fine but the major ticks themselves are shown wrong

Issues:

Formatting for X and Y axis in charts.py generate_state_scatter_legend() are swapped dates formattting times of zeros (Jan1) times formattgin dates of zeros (12.)

Resolution:

X and Y axis now formatted as appropriate for date and time.

Test ID 41

Test Focus: statistics_page.py output (View - Plot)

Test Case	25							
Prepared By	Stephan Schuller							
Version Number	1							
Objective	Verify statistics_page.py (View -Plot) tool is generating graphs of intended content and quality, (Steps: 5)							
Conditions	Statistics_page.py has StatisticsPage Class loaded, the Data Controls have been filled correctly and the "Generate" button has been pressed							
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	statistics_page.py	Graph with Date metric has been Created	Date is displayed correctly.	succ	P		Stephan Schuller
2	statistics_page.py	Cont.	Date is Trimmed Correctly	succ	P		
3	statistics_page.py	Cont.	Appropriate X Ticks are shown	succ	P		
4	statistics_page.py	Cont.	Appropriate Y Axis is shown	succ	P		
5	statistics_page.py	Cont.	Appropriate Y- Ticks are shown	succ	P	41	

Comments:

See Test ID 40- Working as intended.

Test ID 42

Test Focus: statistics_page.py output (View - Plot)

Test Case	26						
Prepared By	Stephan Schuller						
Version Number	1						
Objective	Verify statistics_page.py (View - Plot) tool is generating graphs of intended content and quality, (Steps: 2)						
Conditions	statistics_page.py has StatisticsPage Class loaded, the Statistic Controls have been filled correctly and the "Generate" button has been pressed						
Steps	Module	User Input	Expected Result	Actual Result	Pass/ Fail	ID	Test Performed By
1	statistics_page.py	Graph with Date metric has been Created	Date is displayed (formatted) correctly.	Correct display	P		Stephan S.
2	statistics_page.py	Cont.	Date is Trimmed Correctly	Incorrect trim	F	42	Stephan S

Comments:

The trim is not working properly. Especially with limited data,

Issues:

The issue is unknow, asking for help if there is time remaining to fix trimming of dates in generate_stat_scatter_legend() function inside charts.py

Recommendation:

Find the cause of trimming problem as it is accomplished in a rudimentary way. Simply added or deleting indexes from the from and back of array. However, if the array is unsorted regarding dates, the values are trimmed nonsensically. If Event entries are made out of order timewise It creates an error

Resolution:

UNRESOLVED

Recommendations

1. Implement a way for the Ip address to be saved after the first successful login.
    a. Entering the Ip address during every log in may be cumbersome for users without high level of technical ability, it would be useful to have the ip address saved in local storage, cookies or other method to have it automatically entered and only require typing Email and Password for validation.
    b. This would require altering login_page.py and api.py

2. Implement a way for offline functionality to be possible. Currently credentials must be validated with an api.py call to the database. Constant online connection might not be feasible, it would be beneficial to have an offline validation option.
    a. Would require have at least one confirmed online validation first, with email and password that is saved locally (with security – not plaintext). Then in the future when the same email and password is used, there should be a check for connectivity.
    b. If there is connectivity the credentials should be validated online
    c. If there is no connectivity the credentials should be validated locally
    d. Requires a notification on the Import – Sync Data tool located in the home_page.py to inform the user that data sync from the server is unavailable if offline.
    e. Workflow may be done as normal by using Import – Local tool in home_page.py and log_page.py as well as saving data locally using the Export Data tool in home_page.py
3. Further bug fixing is needed on the New-Graph tool in home_page.py
    a. Some Attribute type are allowing chart types which create charts that do not make sense.
    b. In the case of nominal values. (emesis, diaper, etc) most charting types are underwhelming
    c. There should be a checking for array size for x_values and y_values in the generate_graph() function inside home_page.py to warn the user that there are not enough elements to plot a productive graph.
    d. There should be checking inside of Charts.py for trim_dates() function to double check the number of elements as this is where array size trimming takes place.
    e. In the case of trim_dates() there is no sorted requirement for arrays meaning that dates and values may be trimmed non-sensically, resulting in strange data being displayed in graphs

Recommendations

4. Further bug fixing is needed in the View – Plots tool in statistics_page.py
    a. Addition mechanism for adding plot types to the possible_chart_types array isn't working as intended and allows impossible chart types for correlation and gridline scatter that are not possible
    b. Similar error in style to nominal values associated with (emesis, diapers, etc) that comparisons for correlation are impossible or not helpful Uses same trim_dates() function in Charts.py this problem needs to be solved as mentions in #3 d. above.
    c. For gridline scatter plot It would be useful to have a cluster detection to allow gridlines on major y axis to be reduced or condensed in number as this makes gridline plots unreadable.
5. Some systems have a pixel error related to the Tk Inter display spacing commands that make the Canvas section on home_page.py and statistics_page.py add different types of black frames to graphs when they are exported using the "Export -Graph" tool on home_page.py and statistics_page.py
    a. This makes exported graphs and plots unattractive on some systems
    b. The specifics of this bug is currently unknown but does have something to do with the pixel size of canvases (which is the same in both classes HomePage and StatisticsPage.