

GUI_Viewpoint – HRE Viewpoint management

Revision history

2018-07-11-24	Rod Thompson	Original draft
2018-07-24b	Don Ferguson	Minor edits throughout

SCOPE

This GUI module is used to select, create or edit Viewpoints which define the HRE display for a project. The Viewpoint specifies the region (area) on a computer screen that the HRE main window display will occupy, and the content of this screen region. Each Viewpoint is saved with a name, the record holding the definition of that Viewpoint.

Multiple Viewpoints may be linked to a Project, such that each can be separately selected by the user to display different information sets. As each Viewpoint is selected, a 'selection tab' is added to the right-hand end of the toolbar on the main display.

Windows make up the content of each Viewpoint, each window with its own purpose and setup to suit the user preference. Each window can be named, located, sized, and configured to suit the content requested by the user for display. That individual window detail is saved in the Configuration record for the specific window; and linked to the Viewpoint record.

This module is invoked when a New Project is created; or may be opened via the Tools > Settings > Viewpoint menu item. It is also called when Project Open is used for a previously unknown project for this User, and under the same condition for an unknown Project Restore.

A 'special case' viewpoint will be needed when a User chooses to open two projects concurrently, to display comparable data in a side-by-side arrangement on screen. This Viewpoint module enables the User to define the single Viewpoint while selecting and editing the contents for the data windows of each project. When such a viewpoint is created or edited, such action must as appropriate be reflected in the records of viewpoints for both projects.

DEFINITIONS

A VIEWPOINT is the HRE way of defining a layout of windows for a particular research type and a particular research activity. A VIEWPOINT is the definition of which windows are to be opened, where they are to be located, what they should be displaying and how they are to be automatically updating as the focus of this VIEWPOINT is changed by user actions.

To facilitate the User selection of a working Viewpoint from those created and saved, each is assigned to a category.

For genealogy research, the initial categories are as follows:

Person

Used with a focus on the people whose details are stored in the database

Event

Used with a focus on the events recorded in the database

Location

Used with a focus on the events recorded in the database

Other

To be determined.

Additional categories are likely when HRE is used in other research fields.

Windows which make up the HRE display are categorised as follows:

ACTION Windows:

These are the windows which are called by other actions, and include:

- | | |
|---------------------------------------|--------------------------------------|
| Windows from menu selection | (e.g., Project Backup, Tools, etc.,) |
| Sub-windows called from other windows | (e.g., Server Login). |

They are transient in nature.

The shape, size, layout, color, etc., are determined in design. Content is similarly fixed.

Their location on the HRE main display is specified for initial use, but may be changed by the User.

DATA Window:

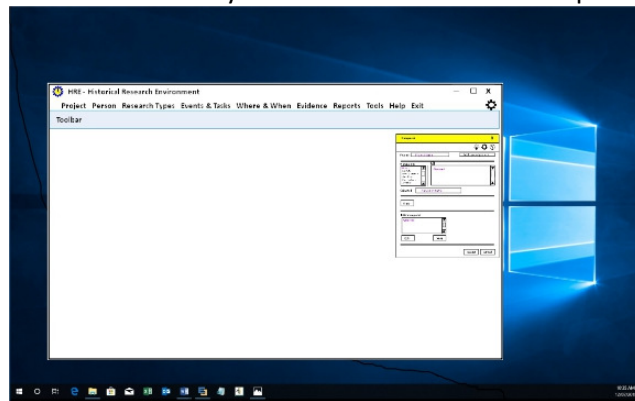
These are the windows which are normally resident on-screen when HRE is running.

They are generally a permanent part of the running HRE application.

The number, location, size and content are determined by the User through use of the Viewpoint and Configuration modules.

LOOK AND FEEL

The Viewpoint module window is (by default) opened as illustrated below, with the window attached immediately below the toolbar on the right-hand side of the main display. This allows for the display of Information windows as they are selected for a new Viewpoint.



This location and size of this window is user changeable through Configuration.

The Layout:

- The topmost section of the window shows the window title 'Viewpoint'
- An icon panel includes on the right, buttons to provide the following universal features:
 - An 'Output' icon, provides an Output of the details for a selected Viewpoint by sending the contents of the Viewpoint Properties tabular display to a file or to a printer
 - A 'Reminder' icon to display the Reminder content for this window
 - A 'Configuration' icon enabling the user to create and retrieve recent or favorite Configurations of this window's layout
 - A 'Help' icon to display context Help about the use of this window.
- The window has four layouts:
 - Standard – working with a single project
 - Modified – working with two projects simultaneouslyEach of these has a basic form which simply allows addition, removal and re-ordering of Viewpoints attached to the project
When a "New" Viewpoint of required, or and "Edit" to the Viewpoint, the window is expanded to provide additional control to the User.
- Below the top two sections, the window has 5 parts; vertically separated
- The upper section has:

- For a single project:
 - contains a display of the Project name
 - a button to allow definition used when *Two* projects are to be incorporated into the one Viewpoint
 - a non-displayed second project name
 - a non-displayed 'Swap-display' control.
- For two project operation:
 - a display of the second project name
 - the add second project button is deactivated and greyed out
 - a 'Swap-display' control is made visible, and active.
- The next lower section contains two horizontally separated displays.
 - On the left, a picklist of *Available Viewpoints* known to this User.
 An 'information' icon opens a separate window, which displays additional detail about each Viewpoint. (See below) This should allow a Viewpoint created and used in one Project to be easily selected for use in another Project.
 When a viewpoint is selected, that selection is added to the 'Selected' Viewpoint name display
Issue: How/where is such a broad list of Viewpoints stored – User AUX file?
 - On the right, the *Selected Viewpoints* selected for the projects are displayed.
 The order in which Viewpoints are added is not important, but the order is reflected in the display. The order of listing determines the Viewpoint used when opening the project, and the display order of the Viewpoint selection buttons in the task bar.
 A 'swap' icon located above the display, allows the user to re-order the list.
 This icon is only activated and displayed if two or more Viewpoints are attached to a project. (See below).

At this point the User may elect to utilize the selected Viewpoint, by using the "Accept" button at the foot of the window.

- The next lower section of the window contains "New" and "Edit" buttons.
 Use of either of these buttons to expand the window, adding additional displays and controls.
 Both buttons use the same elements.

New

Text boxes allow the user to enter a Viewpoint Name; and select the category.

A circular process enables the User to select a 'window type' and **Add** it to the Selected Windows list, entering a name to be used at the head of the displayed window. Removal of a window from the Selected Windows list is also possible with the **Remove** control.

The order of entry is not important as the displayed location and size of each window is determined in the following configuration process.

When satisfied with the Viewpoint definition, the "Save" button is used to save the content.
 At this point the User may elect to utilize the selected new Viewpoint, by using the "Accept" button at the foot of the widow.

Edit

As with the New Viewpoint described above, when editing a selected Viewpoint, the User has the option to copy and rename an existing Viewpoint, adding or removing windows from the selection using the **Add** and **Remove** controls.

When satisfied with the Viewpoint definition, the "Save" button is used to save the content.
 At this point the User may elect to utilize the selected Viewpoint (as edited), by using the "Accept" button at the foot of the window.

- At the foot of the window, buttons including "Accept", "Cancel" and "Close"

- “Accept” adopts a selected Viewpoint for use in the Project
adds the Viewpoint selection tabs to the Toolbar, and closes the window
- “Cancel” neglects any User actions in this window, and closes the window
- “Close” is only displayed and active when a Two Project Viewpoint is being defined;
and is used to close the definition for one Project before accepting the dual project Viewpoint.

Information icon

When a Viewpoints is selected in the *Viewpoints Available* list, a mouse click in the information icon will open a small overlay window to provide the following detail:

Viewpoint Name
Date created
Created by (User name)
Used in (projects list)
Content summary (e.g., 6 Information, 4 Image, 1 Chart).

Order Swap icon (for Selected Viewpoints)

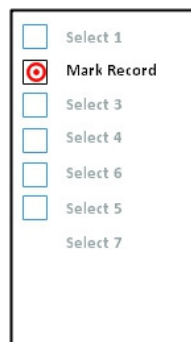
Used to re-order the listed Viewpoints used in the Project.

The process involves use of the Mouse right key.

Any two Viewpoints in the list can be re-ordered at one time.

Process:

1. Select one Viewpoint (mouse left key-single click)
2. Open the Mouse right-click window
3. Select the ‘Record marker’
This will place a marker in the Selected Viewpoint list against the selected Viewpoint, and close the Mouse right-key selection window
4. Select the second Viewpoint (mouse left key-single click)
5. Use the Swap Icon (mouse left key-single click).
This will swap the location of the two selected Viewpoints in the list; and remove the record marker from the list.



Mouse – Right key selection

Viewpoint X

Project

Available Viewpoints ⓘ

Category Name

DEFAULT
PERSON
ONS1
EVENT
LOCATION
Museum
Others...

Selected Viewpoints ⓘ

Category Name

Person ONS1
Event Pauls View

Selected

VIEWPOINT Window (single project-select only) – Mockup

Viewpoint X

Project

Available Viewpoints ⓘ

Category Name

DEFAULT
PERSON
ONS1
EVENT
LOCATION
Museum
Others...

Selected Viewpoints ⓘ

Category Name

Person ONS1
Event Pauls View

Selected

Name

Category

Window Types ⓘ

☐ Data
☐ Image
☐ Graph
☐ Text
☐ Chart
☐ Other

Selected Windows ⓘ

Type	Name
Data	Explorer - Person
Data	Details - Person
Data	Details - Ancestors
Data	Details - Associates
Data	Flags
Image	Image
Chart	Decendants

VIEWPOINT Window (single project-with NEW & EDIT) – Mockup

Dual Project Viewpoint

Viewpoint

X

Project 1

Project 1 Name

Add second project

Project 2

Project 2 Name

Swap Displays

Project 1

Project 2

Available Viewpoints

Category Name

DEFAULT

PERSON

ONS1

EVENT

LOCATION

Museum

Others...

Add >>

<< Remove

Selected Viewpoints

Category Name

Person ONS1

Event Pauls View

Selected

Viewpoint name

New

Edit

Close

Accept

Cancel

VIEWPOINT Window (dual project-select only) – Mockup

Viewpoint

X

Project 1

Project 1 Name

Add second project

Project 2

Project 2 Name

Swap Displays

Project 1

Project 2

Available Viewpoints

Category Name

DEFAULT

PERSON

ONS1

EVENT

LOCATION

Museum

Others...

Add >>

<< Remove

Selected Viewpoints

Category Name

Person ONS1

Event Pauls View

Selected

Viewpoint name

New

Edit

Name

Viewpoint name

Category

Category selector

Window Types

☐ Data

☐ Image

☐ Graph

☐ Text

☐ Chart

☐ Other

Add >>

<< Remove

Selected Windows

Type	Name
Data	Explorer - Person
Data	Details - Person
Data	Details - Ancestors
Data	Details - Associates
Data	Flags
Image	Image
Chart	Decendants

Save

Close

Accept

Cancel

VIEWPOINT Window (dual project-with NEW and EDIT) – Mockup

ACTIONS

The fundamental operations are:

1. Open the window according to its saved window Layout (BR_WindowConfig)
2. Display the current Project Name(s) *See above for two project Viewpoint*
3. Display lists of Viewpoints (known to the User)
An indented list using categories.
Issue: Viewpoint categories (database change?)
4. Allow the user to select 'known' Viewpoints; and add to the Selection for the project.
This will add a *Viewpoint selection button* to the Toolbar. **(need to add to GUI_UserInterface)**
5. Allow the user to select an existing Viewpoint, and either:
 - a. Create a new Viewpoint (by cloning and re-naming)
 - b. Edit the existing viewpoint
6. Creating a NEW Viewpoint or EDITING a Viewpoint, allows the user to choose the Window types to be used in the selected Viewpoint
Note: - It does NOT involve selection of the specific data to be displayed in each window, that being determined via window configurations using the GUI_Select Configuration module, and its sub-modules. Each window requires that attention before data can be displayed.
NOTE: Should a Viewpoint be amendable while it is 'Open'?
What happens if a previously selected window with data 'on-display' is removed from the Viewpoint?
7. Save the Viewpoint
8. Accept the edited Viewpoint for use by linking to the project.

When a Viewpoint is being defined for two concurrent project openings, additional controls are added to the window. With only one display of controls the window design must clearly display which project is being defined or edited.

VIEWPOINT INFORMATION WINDOWS

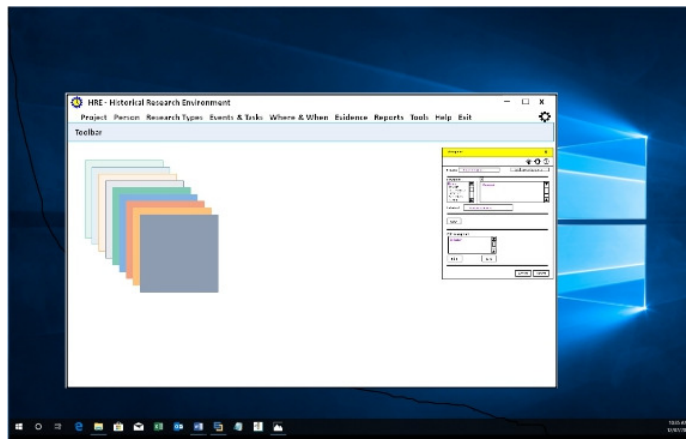
Each Viewpoint defines a set of windows for display of the HRE project data.

The following types are defined.

Data	uses Multi-column lists to present data Includes: project data, styles, events, locations, flags, sources & repositories, research plans & tasks, timelines, logs
Image	displays exhibits (photographs, scanned documents)
Graph	displays a graph, linked to defined data set
Text	Help System display? Others?
Chart	displays a chart (reports), e.g. (for genealogy), Ancestor Box, Descendent Box, Fan, Hourglass
Other	to be determined

The window selection for the Viewpoint provides the available types, allow multiple picks from the available list, naming each in the selection process.

When an additional window is selected in the creating process, a new window of the appropriate type is added to the main display in a staggered overlaid fashion as illustrated below.



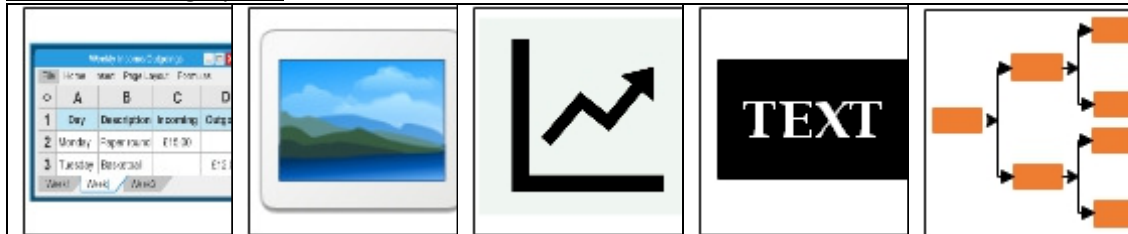
What do these windows look like? Options.

- 1) Blank box
- 2) A box with a graphic that shows its use
- 3) A box with content per the DEFAULT Configuration for such a window.

Blank Windows



Windows with graphics



Windows with DEFAULT Configuration content

Row	Column	Header	Value	Unit	Value	Unit
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12
13	13	13	13	13	13	13
14	14	14	14	14	14	14
15	15	15	15	15	15	15
16	16	16	16	16	16	16
17	17	17	17	17	17	17
18	18	18	18	18	18	18
19	19	19	19	19	19	19
20	20	20	20	20	20	20
21	21	21	21	21	21	21
22	22	22	22	22	22	22
23	23	23	23	23	23	23
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26	26	26	26	26	26	26
27	27	27	27	27	27	27
28	28	28	28	28	28	28
29	29	29	29	29	29	29
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34	34	34	34	34	34	34
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39	39	39	39	39	39	39
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92	92	92	92	92	92	92
93	93	93	93	93	93	93
94	94	94	94	94	94	94
95	95	95	95	95	95	95
96	96	96	96	96	96	96
97	97	97	97	97	97	97
98	98	98	98	98	98	98
99	99	99	99	99	99	99
100	100	100	100	100	100	100

A table with columns (with headings) and rows, as expected in an HRE data display.

After closing the Viewpoint window, each Information window may then be manually relocated and resized by the User using the mouse utilizing the drag and drop methodology. Location and Size data to be stored as changes as made, as properties of the individual windows as part of this Viewpoint for the User/Project. **Alternatively – does this use 05.32 GUI_WindowConfigEdit?**

On completion of the Viewpoint creation and save processes, the configuration of each window to specify the display contents may be initiated by use of the 'Configuration' icon located on each Information Window. **Probably should also be available from a Tools menu selection.**

A Wizard should be considered as a means to semi-automate this Viewpoint creation and subsequent Window configuration process. Optional use.

TEMPLATE VIEWPOINTS

A DEFAULT Viewpoint template is essential to initial use of HRE, where a User seeks to open a Project created by another User. Such Viewpoints are likely to vary considerably according to the nature of the research data.

The proposed DEFAULT Viewpoint (genealogy project) is as follows

Window Type	Window Name
Information window	Explorer
Information window	Person detail
Information window	Associates
Information window	Flags

Other templates may be useful additions to HRE contributing to the learning of the User.

What Viewpoints might we expect an HRE user to utilize.

First use of HRE will be genealogical.

1) Person focus Template

Proposed viewpoint

Window Type	Window Name
Information window	Explorer
Information window	Person detail
Information window	Ancestors
Information window	Descendants
Information window	Associates
Information window	Flags
Image window	Exhibits

2) Event focus Template

Window Type	Window Name
Information window	Explorer
Information window	Associates

3) Location focus Template

Window Type	Window Name
Information window	Place List
Image window	Exhibit (photograph)
Image window	Exhibit (map)

USED BY

All HRE users.

DATA CONTROLLED BY THIS MODULE

1. Database Table 303 VIEWPOINT_CONFIGS
2. Database Table 304 VIEWPOINT_ELEMENTS

REQUIRED DATA CONTROLLED BY OTHER MODULES

1. None.

REQUIRED SERVICES – Dependencies

First-Order Dependencies	Second-Order Dependencies (if not already listed)	Higher-Order Dependencies (if not already listed)
05.40 GUI_Reminder	03.68 GUI_SelectConfiguration	Needed
	05.02 GUI_EncodedStringEdit	05.08 GUI_FieldDefinitionEdit
		05.42 GUI_SubstitutionEdit
		07.26 BR_Substitution
		07.24 BR_Setting
		07.17 BR_WindowConfig
	07.01 BR_EncodedString	NIL
	07.24 BR_Setting	BR_AppData
		BR_UserData
		07.02 BR_EntityLink
	07.17 BR_WindowConfig	07.06 BR_GuiElement
		07.02 BR_EntityLink
		07.29 BR_Translation
		BR_FieldTranslation
		07.16 BR_MessagePatterns
	07.02 BR_EntityLink	NIL
05.32 GUI_WindowConfigEdit		
05.14 GUI_Help	03.68 GUI_Select Configuration	
	07.24 BR_Setting	
	07.17 BR_WindowConfig	
	07.11 BR_Logging	
	07.07 BR_Help	
	07.02 BR_EntityLink	
07.24 BR_Setting	BR_AppData	
	BR_UserData	
	07.02 BR_EntityLink	NIL
07.17 BR_WindowConfig	07.06 BR_GuiElement	07.01 BR_EncodedString
		07.02 BR_EntityLink
		BR_FieldTranslation
		07.16 BR_MessagePatterns
	07.02 BR_EntityLink	NIL
	07.29 BR_Translation	07.02 BR_EntityLink
		BR_Field
		07.06 BR_GuiElement
		07.16 BR_MessagePatterns
	BR_FieldTranslation	
	07.16 BR_MessagePatterns	07.02 BR_EntityLink
		07.01 BR_EncodedString
		07.11 BR_Logging
		Call Stack
		07.24 BR_Setting
		GUI_Translation
03.53 info icon window		

EVENT ACTIONS

- 1) Keyboard actions
 - a. Entry of a Viewpoint name (NEW or EDIT action)
- 2) Mouse actions
 - Left key
 - a. key click on pulldown expands list, and allows selection
 - b. Mouse hover over the slider bar, hold key down and drag slider bar up or down
 - c. Mouse key tap in slider bar box causes up and down movement
 - d. Mouse key click on a record in a selection box, selects that item for further action
 - e. Mouse key click on a displayed Viewpoint for a project, then a second Viewpoint selection; allows use of the 'Swap' icon to re-order the two records in the list
 - f. key click on each button, operates the button
 - g. key click on icons (detailed below)
 - Right key

See above (Selected Viewpoint record marker)

Others to be determined
- 3) Icon actions
 - a. left mouse key click on icons in the Window 'X' icon:
(closes the window)
 - b. left mouse key click on 'Reminder' icon:
(opens 'Reminder' window for this 'Viewpoint' window)
 - c. left mouse key click on the 'Configuration' icon
(opens the Configuration Window for this 'Viewpoint' window)
 - d. left mouse click on 'Help' icon:
(opens the Help System, searches for the section on 'Viewpoint' window)
 - e. left mouse key click on the 'info' icon:
(provides additional information about the selected configuration)
 - f. left mouse key click on the 'swap' icon:
(re-orders two selected records in the Project's Window list)
- 4) Keyboard shortcuts

To be determined

NOTES:

The content of this window is determined only by design.

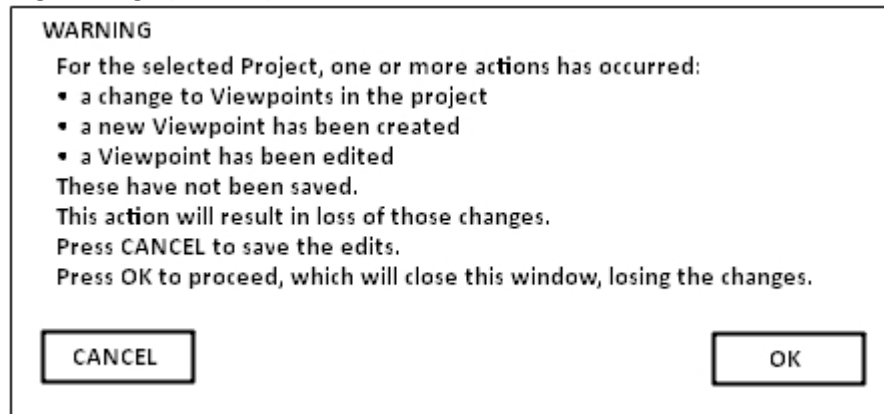
The initial size and location of the window is defined in a configuration linked to the DEFAULT Viewpoint. It is locked in position in this Viewpoint.

When a User defines their own STARTUP Viewpoint, the location and scale of this window should be freed, allowing it to be dragged and dropped; and resized by border or corner shifting; to a preferred location. The new configuration is automatically saved for this Window, in its Viewpoint/Project/User records.

WARNING CONDITIONS

1. When the 'Cancel' button is used, a warning message may be displayed.

Warning Message (WM-V1)



Text Version

WARNING

For the selected Project, one or more actions has occurred:

- a change to Viewpoints in the project
- a new Viewpoint has been created
- a Viewpoint has been edited.

These have not been saved.

This action will result in loss of those changes.

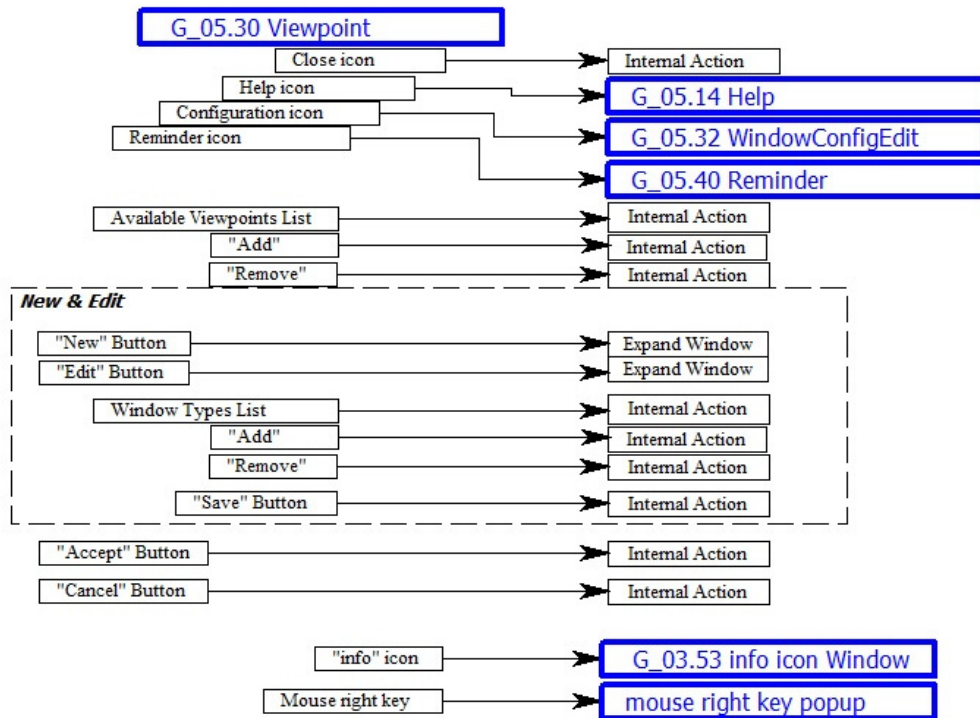
Press CANCEL to save the edits.

Press OK to proceed, which will close this window, losing the changes.

ERROR CONDITIONS

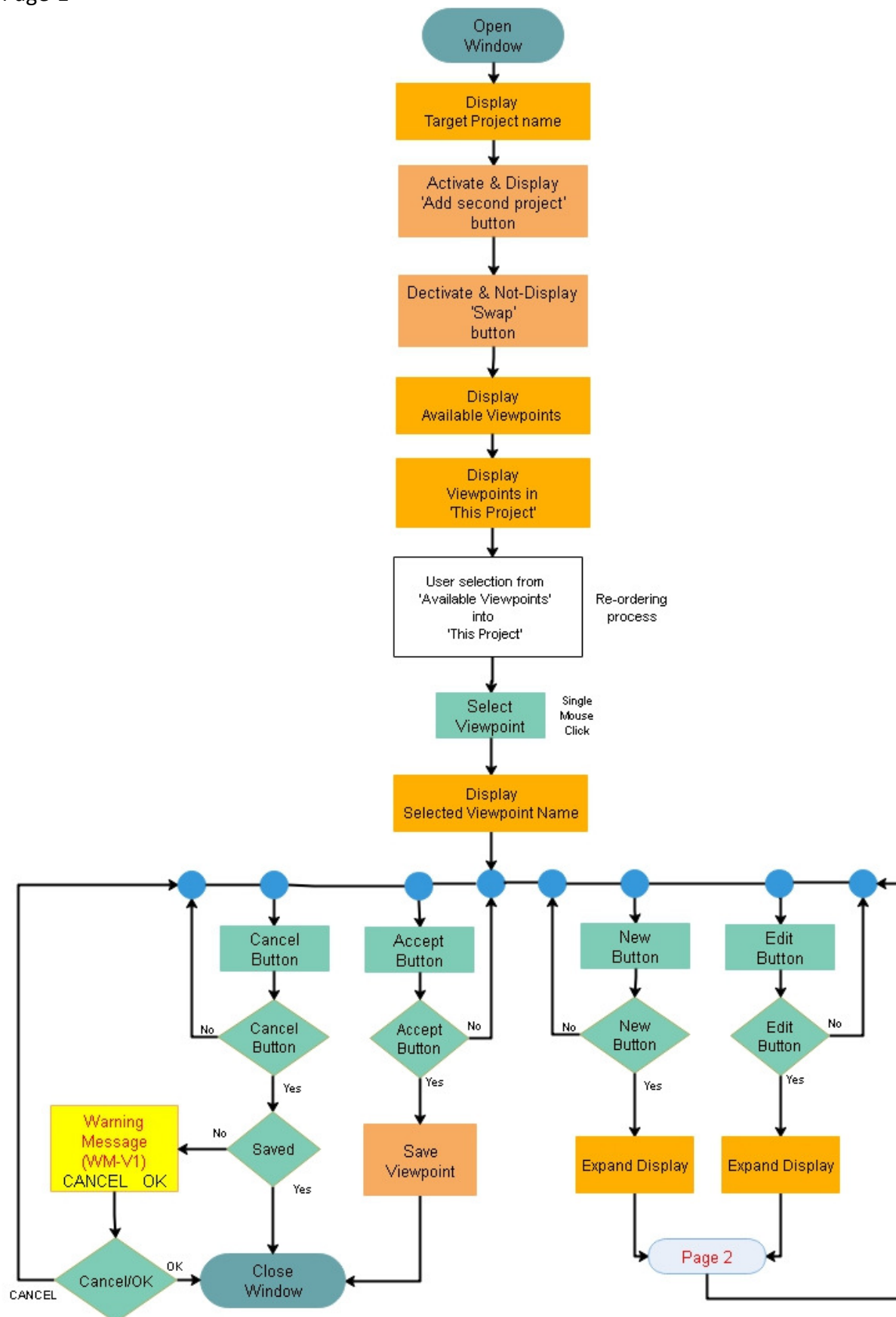
1. Need to record the condition that raised the error, example message and possible next steps. (GUI_Message Patterns used to report warnings to user)

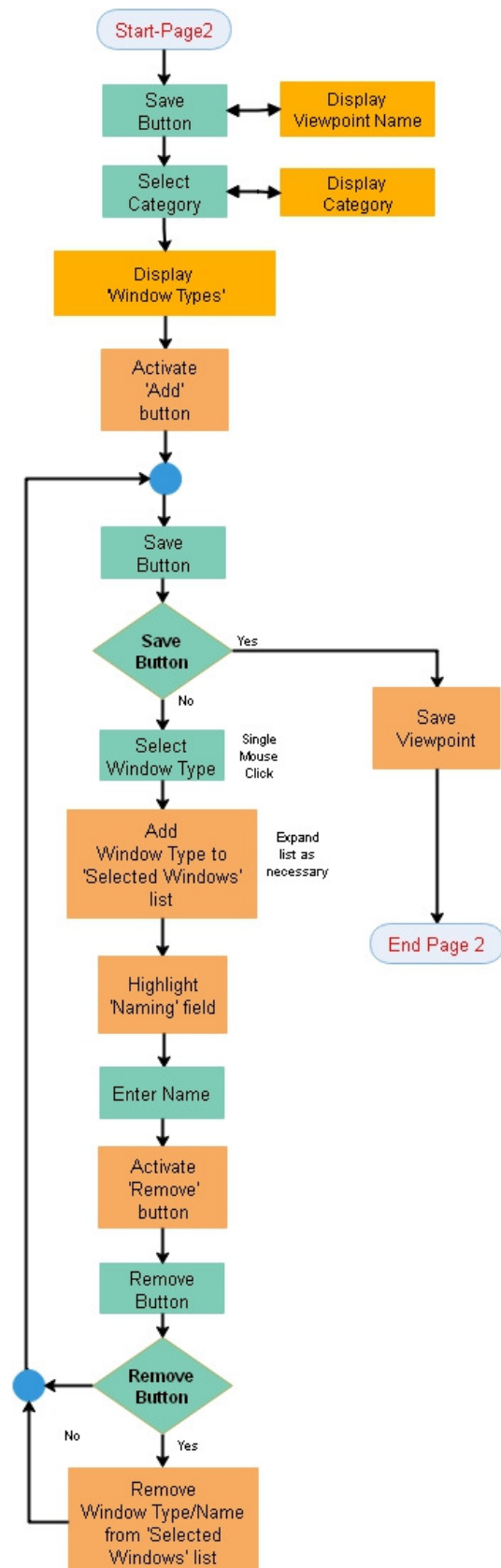
WINDOW INTERACTION MAP



PROCESS FLOW CHART

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USE CASES

- 1) STARTUP Viewpoint
- 2) DEFAULT Viewpoint
- 3) Two Project Viewpoint

Details below

Use Case 1

STARTUP Viewpoint

Used when HRE is started at each use time, before any action on projects.

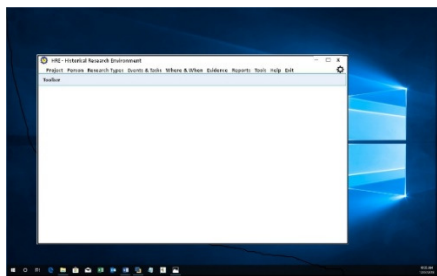
Each ACTION window making up the viewpoint is displayed by its DEFAULT Configuration

Subsequent action involving projects will generally establish a named, saved Viewpoint for future use, linked to the Project and User.

The display consists of the following:

- Main display window

ACTION windows of a transient nature are displayed in response to User selection from a limited number of menu options.



Mockup example

To allow for a wide variety of computer installations, the viewpoint is defined

- 1) For a single screen computer
- 2) Located and sized relative to the available screen
 - Left side – 10% of screen width
 - Right side – 30% of screen width
 - Bottom - 10% of screen height
 - Top – 20% of screen height

Table 304 of the database records this detail.

Values are added to the database in the installation process.

Use Case 2

DEFAULT Viewpoint (Person focus)

Used when HRE is started, the User selecting a project not previously opened by that User.

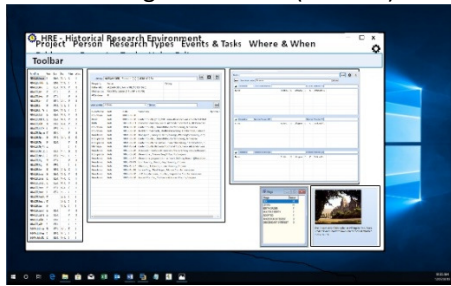
This Viewpoint will differ with each variety of research.

The display consists of the following:

For Genealogy:

- Data window (person explorer)
- Data window (person details)
- Data window (ancestors)
- Data window (descendants)

- Data window (associates)
- Data window (flags)
- Image window (exhibits)



Mockup example

To be defined (for other research fields)

Use Case 3

DEFAULT Two Project Viewpoint (Person focus)

It is expected that a special case use of HRE will involve opening two projects concurrently, enabling a close comparison of the data sets, allowing interaction between project data elements.

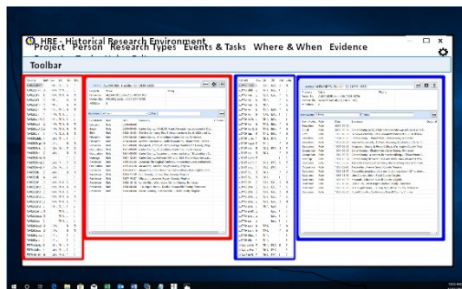
(to be determined)

Limited data displays are provided in the Basic template, to use a single screen display.

Includes the following:

- Main display window

Project 1	Project 2
<ul style="list-style-type: none"> • Data window (person explorer) • Data window (person details) 	<ul style="list-style-type: none"> • Data window (person explorer) • Data window (person details)



Mockup example

NOTE: Coloured window borders link project windows.

Need a means to display the Focus.

The User may create their own named Viewpoint from this template, varying the content and configuration to suit their computer installation and preferences.

TESTING

Testing to prove the functionality of this module in use with others of the HRE application.

Limited 'Project' functionality (see below).

Prior testing of the module in the code development process is assumed.

<u>General requirements</u>	<u>Code element requirements</u>
HRE installation	Main GUI
1) Single computer	Viewpoint
2) Test Project database files	Project Open
	Project Close
	ExitHRE

Process

- 1) Run HRE
 - a. Open HRE
 - b. Open the Test Project
 - c. Invoke the Viewpoint module via the Tools>Settings menu selection
 - d. Test the functionality of the module
 - e. Close the Project
 - f. Exit HRE
- 2) Check result (how?)

See Test Plan document

Note: Cannot define a viewpoint if no Project exists.

Normal use follows creation of a project.