

GUI_ProjectNew – Create a New Project

Revision history

2017-04-04	Don Ferguson	Original draft
2018-05-28	Rod Thompson	Inserted diagrams, actions, maps, flowchart
2018-06-02	Rod Thompson	Amend Required Services
2018-06-15	Rod Thompson	Add Issues raised by JL Update REQUIRED SERVICES – Dependencies Add Project fileset detail Replace 'screen' with 'window' Replace 'BR_PanelConfig' with 'BR_WindowConfig' Replace PROCESS FLOW CHART Replace graphic Update Warning Messages Update WINDOWS INTERACTION MAP
2018-06-24 2018-06-25	Rod Thompson	Add NOTES in place of Issues Add PROJECT FILESET and OPERATION Replace PROCESS FLOW CHART & WINDOWS INTERACTION MAP Delete Warning Message 2 Add Text version of Warning Message 1 Revise keyboard action
2018-06-26	Rod Thompson	Add NOTE re Project name and filename (revise document text) Addition to icon actions – 'X-close' Replace PROCESS FLOW CHART
2018-06-28	Rod Thompson	Replace 'Project' Auxiliary file with 'Project Database' Auxiliary file Add MESSAGES
2018-06-30	Rod Thompson	Additions to DATA CONTROLLED section Revise NOTE concerning Project Name and project filename. Amend ACTIONS and Keyboard actions re Project Name and filename Replace graphics
2018-07-05	Rod Thompson	Add section USE CASES Add section TESTING Update REQUIRED SERVICES – Dependencies
2018-12-15	Rod Thompson	Replace graphics Remove 'configuration' Add LOGGING Update REQUIRED SERVICES-Dependencies (Logging) Revise LOOK AND FEEL Replace WINDOWS INTERACTION MAP
2019-01-26	Rod Thompson	NOTES – finalise revision ACTIONS – revise functionality of project/filename entry ACTIONS – revise to include DEFAULT filename
2019-02-27	Rod Thompson	Replace Window Graphics (v8)
2019-02-28	Rod Thompson	ACTIONS – Update Replace Process Flowchart (v8) WARNING CONDITIONS – update NOTES – Addition regarding Project Name Replace Windows Interaction Map (v5)
2019-02-28	Rod Thompson	ERROR CODITIONS – additions REQUIRED SERVICES – add GUI_FileChooser
2019-04-12	Don Ferguson	Replace mockups with real screens Update specification 03.6x references to 05.8x Remove call to 05.30 Viewpoints and Project Open Minor edits to reflect actual implementation

SCOPE

This GUI module is called from the Main Menu (GUI_UserInterface) to create a new HRE project instance.

PROJECT FILESET

A set of files required for normal use of HRE projects consists of:

- an H2 database
- A 'User' Auxiliary file
- A 'Project' Auxiliary file
- Appropriate log files
- folders of external files (images, etc) [optional].

Refer to *03.32 Overview – Auxiliary (Non Database) Files* for details.

NOTES

Installation of HRE on a computer will include a 'seed' H2 database

On the first occasion that each user initiates HRE operation, a User Auxiliary file is created for that user. As projects are created or opened for the first time, a Project Auxiliary file (for each Project) is created. This system provides a linkage between Users and Projects.

An administration module (GUI_ProjectAdmin) allows an administrator (after creating a project with ProjectNew) to then assign rights to users through adding relevant entries to the Auxiliary files.

See *03.49 Overview – Administration and User Rights*.

Information identifying a project includes: Database filename, Project name, location.

The Project Name and filename may be different.

Project name

On any one server, the same project name cannot be used twice by the User (even if in different folders). The software needs to check all HRE projects on the Server, and where a project exists with the User entered name, prevent use, appending the name entry with a '2, or 3' etc., and messaging the User of the change.

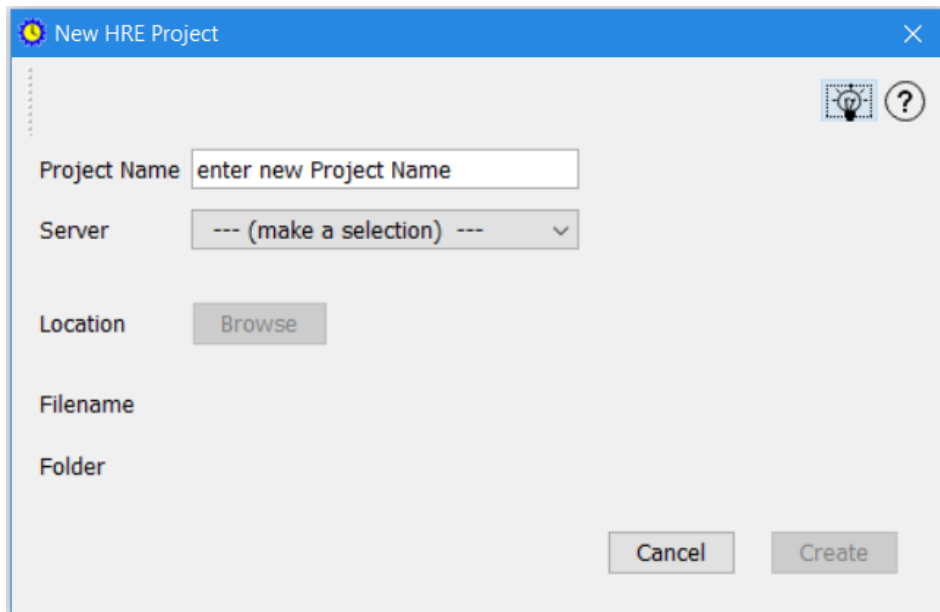
OPERATION

Use of the ProjectNew module creates a new project database (from the seed database) and the Project Auxiliary file. When the Project is opened by another User, that User detail is added to the Project Auxiliary file.

LOOK AND FEEL

The window has two parts:

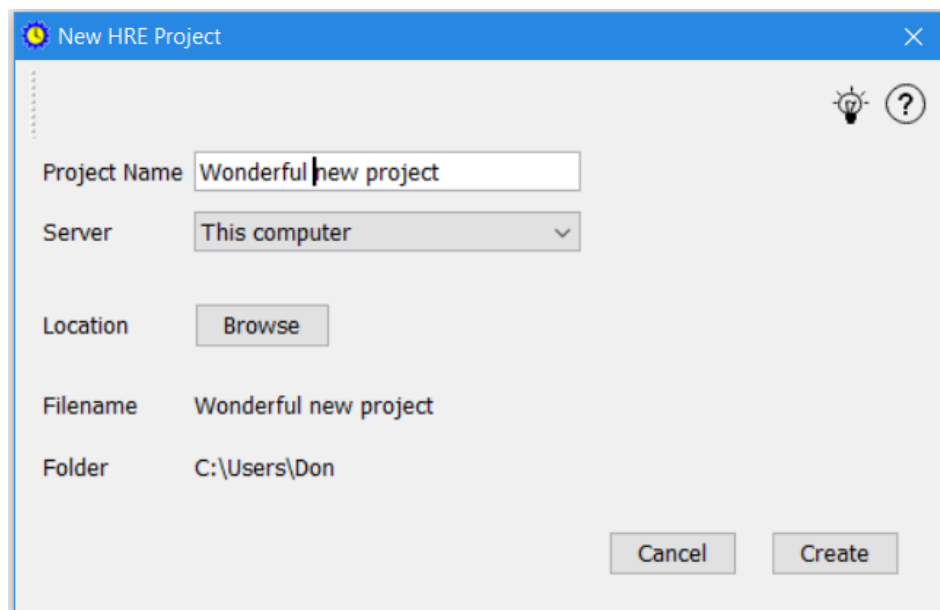
- The upper right icon buttons provide the following universal features:
 - the 'Reminder' icon displays the Reminder content for this window
 - the 'Help' icon displays context Help about the use of this window
- The lower section with:
 - a text entry box for the Project Name
 - buttons "Browse", "Create" and "Cancel"
 - The "Browse" buttons allow the user to search the file system, selecting or adding a location folder and filename for the project
When chosen, the folder and filename are added to the display
 - "Create" initiates the creation of a new set of project files
 - "Cancel" exits without action.
 - a drop-down server selection and "Login" button



The image shows the initial state of the 'New HRE Project' dialog box. It has a blue title bar with a yellow icon and a close button. The main area is light gray. At the top right are icons for a lightbulb and a question mark. The form contains the following fields and controls:

- Project Name:** A text input field with the placeholder text 'enter new Project Name'.
- Server:** A dropdown menu showing '--- (make a selection) ---'.
- Location:** A button labeled 'Browse'.
- Filename:** A label with no associated input field.
- Folder:** A label with no associated input field.
- Buttons:** 'Cancel' and 'Create' buttons at the bottom right.

Draft PROJECT NEW window – initial screen



The image shows the 'New HRE Project' dialog box after user input. The fields are now populated:

- Project Name:** 'Wonderful new project'.
- Server:** 'This computer'.
- Location:** 'Browse' button (unchanged).
- Filename:** 'Wonderful new project'.
- Folder:** 'C:\Users\Don'.

The 'Cancel' and 'Create' buttons remain at the bottom right.

Draft PROJECT NEW window – completed screen

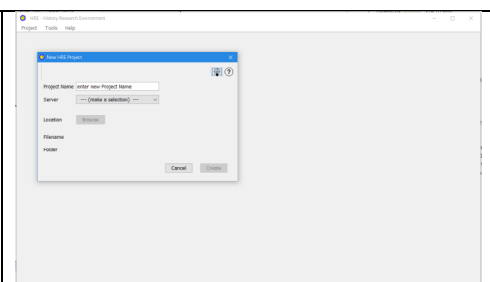
Shape, Size, Color, Layout etc. determined in design.

On screen location

Initially inherited from the HRE main display

Window located immediately below the Project menu button

On screen location is the only User changeable setting



ACTIONS

The fundamental operations are:

1. Open the window according to its saved window Layout (BR_WindowConfig)

2. Allow the user to specify a new Project name, browse the file system -selecting or entering a file location, and entering a filename (local or named server)
3. A DEFAULT filename (same as the Project name) will be applied from the HRE application to the File Explorer through the Operating System as the selection process is initiated, and may be over-written by the User.
4. If an existing project (using the same filename) is in the current location, reject the request (operating system action) – seeking a new filename entry
5. Create the new project files (H2 database and Auxiliary Files)
Write a record to the User Auxiliary File
Write a record to the project Database Auxiliary File
6. Invoke GUI_ProjectSetting dialog to enable user to adjust the default project settings.

USED BY

All HRE users.

DATA CONTROLLED BY THIS MODULE

Fully initialised new HRE project.

1. User tables in the project database – Tables 131-136
2. User and Project data in the Database Auxiliary file.

REQUIRED DATA CONTROLLED BY OTHER MODULES

Project data.

REQUIRED SERVICES – Dependencies

First-Order Dependencies	Second-Order Dependencies	Higher-Order Dependencies
05.38 GUI_ProjectSetting	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
05.88 GUI_SelectConfiguration	Needed	
05.40 GUI_Reminder	05.88 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	See above
	07.17 BR_WindowConfig	See above
	07.02 BR_EntityLink	NIL
05.77 GUI_FileChooser		
07.17 BR_WindowConfig	07.06 BR_GuiElement	07.01 BR_EncodedString
		07.02 BR_EntityLink
		BR_FieldTranslation
		07.16 BR_MessagePattern
	07.02 BR_EntityLink	NIL
	07.29 BR_Translation	07.02 BR_EntityLink
		BR_Field
		07.06 BR_GuiElement
		07.16 BR_MessagePatterns
	07.03 BR_FieldDefinition	Needed
	07.16 BR_MessagePatterns	Needed

First-Order Dependencies	Second-Order Dependencies	Higher-Order Dependencies
07.21 BR_Project	07.06 BR_GuiElement	See above
	07.02 BR_EntityLink	NIL
	07.29 BR_Translation	See above
	07.03 BR_FieldDefinition	Needed
07.11 BR_Logging	07.01 BR_EncodedString	NIL
	07.02 BR_EntityLink	NIL
	BR_FieldTranslation	
	07.26 BR_Substitution	07.02 BR_EntityLink
		07.29 BR_Translation

APPLICATION PROGRAMMING INTERFACE (API)

1. Single call with no parameters.

LOGGING

Use of this module **will** create log entries.

Commit Logging

This occurs for each of the following functions – in the listed tables:

Function	Database Table
Open Session	128
Close Session	128
Move and/or resize window	305/306?

General Log

This includes:

- Project New

EVENT ACTIONS

- 1) Keyboard actions

Enter a Project name

Enter a Project filename for the Project in the OS file explorer

- 2) Mouse actions

Drag and drop mouse actions to move the window

Setting changes saved to database for User>Project>Window

Left key

- a. click on Server name drop-down expands Server list, and allows selection
- b. click on the 'Browse' button opens the File Explorer allowing the user to view the file system to select an existing folder and enter a new filename
- c. click on the 'Create' button, creates a new set of Project files
- d. click on the 'Cancel' button, cancels any actions taken, and closes the window (with Warning message as below)
- e. click on icons (detailed below)

Right key

To be determined

- 3) Icon actions

- a. left mouse key click on icons in the Window Control group:

'X' icon - closes the window.

NOTE: Same action as in use of the 'Cancel' button

- b. left mouse key click on 'Reminder' icon:

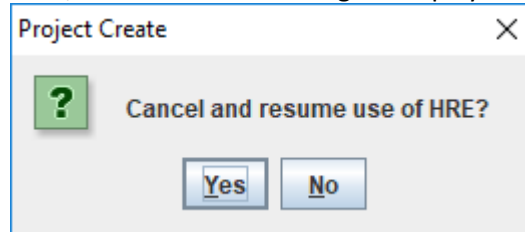
(opens 'Reminder' window for this Project New module)

- c. left mouse click on 'Help' icon:
(opens the Help System, searches for the section on 'New Project')
- 4) Keyboard shortcuts
To be determined

WARNING CONDITIONS

Display Location: centered on the GUI_ProjectBackup window

When the 'Cancel' button is used, a confirmation message is displayed:



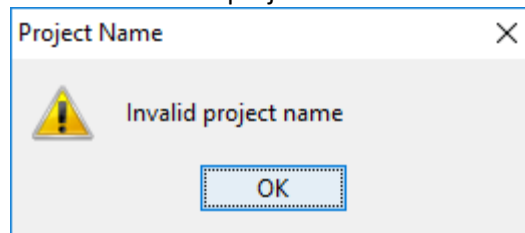
Message Display bypass

A system is to be employed in HRE enabling the bypass of Warning Messages.
Detail of this system is to be determined.

ERROR CONDITIONS

Display Location: centered on the GUI_ProjectBackup window

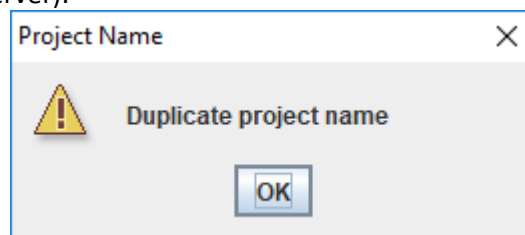
An Error message is displayed when an invalid project name is entered:



Criteria

- 1) Project name is null
- 2) Note: the characters '/', '\', '*', ':', ';', '^', '{', '}', '[', ']', '<', '>', '?', '%', '"', or comma will be stripped out of the name.

An Error message is displayed when a project name is entered (when the same project name is already in use on the Server):



Criteria

- 1) A search of project records in Project Auxiliary files on the server, reveals the name already in use on the server. On return, a numeral '2' (or 3, etc.) is appended to the project name entry.

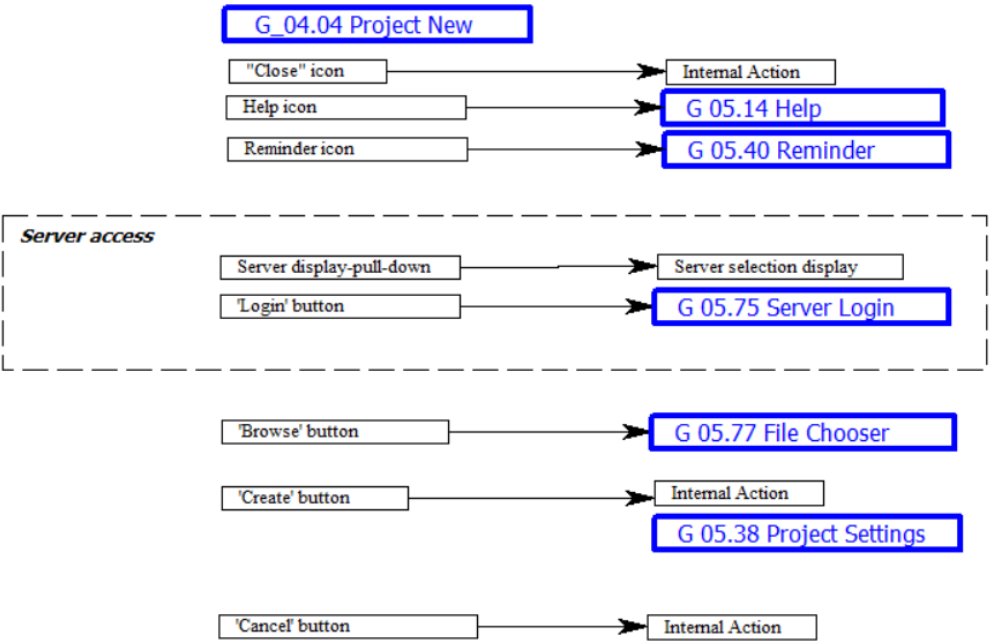
MESSAGES

Created in and sent from Server to Client

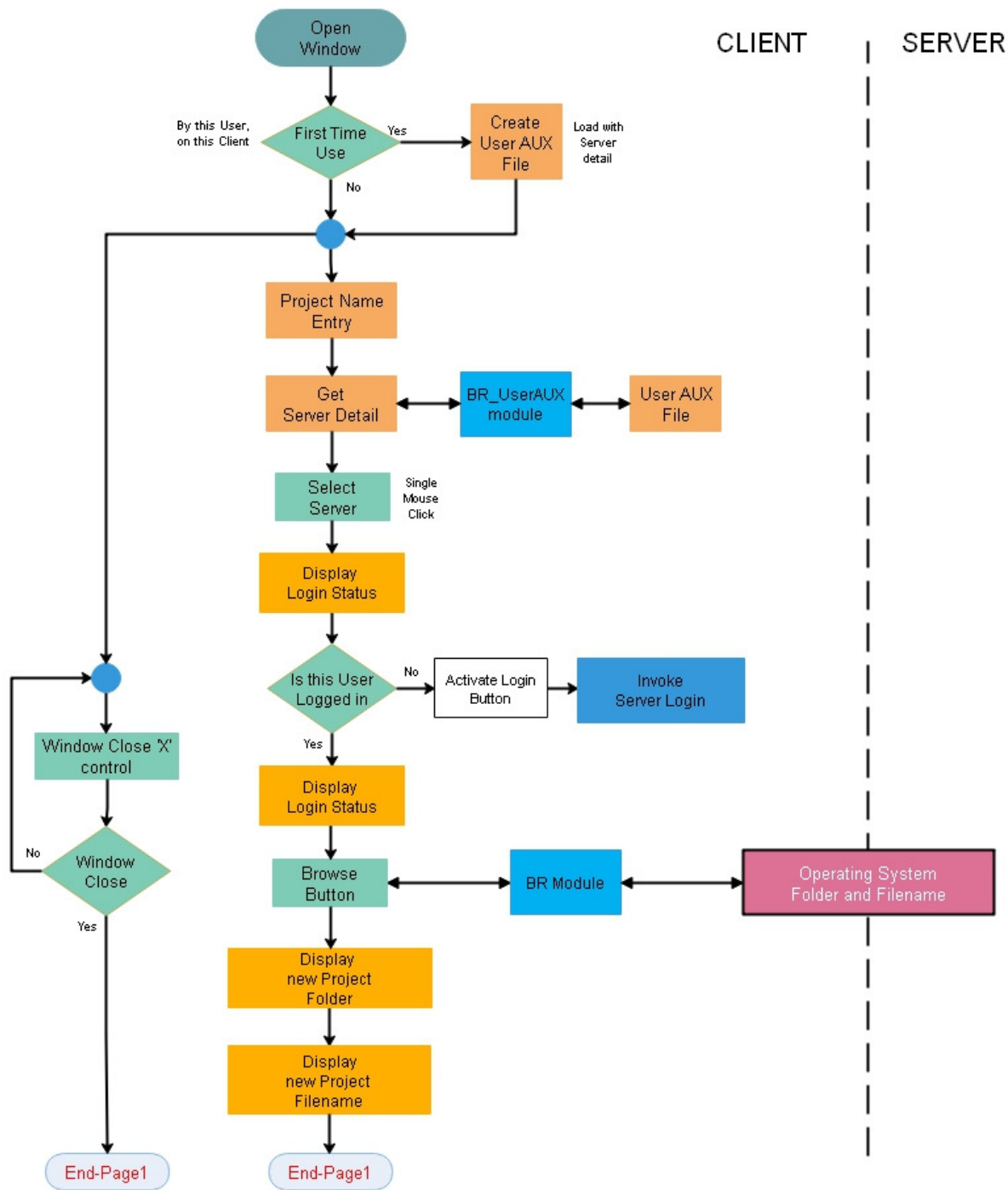
<p>Message M_S_C_1</p> <p>Uses Server Broadcast Message Pattern GUI_Message (SB)</p> <p>Sent to the User seeking to create the project</p>	<p>Subject: Project New From: Server Text Message: You do not have rights to create a new project. Refer to Administrator.</p> <p>Requested by: User name Project name: Project name Project folder: Folder name Project filename: Filename</p>
<p>Message M_S_C_2</p> <p>Uses Server Broadcast Message Pattern GUI_Message (SB)</p> <p>Sent to the Administrator</p>	<p>Subject: Project New From: Server Text Message: A User without 'rights' attempted to create a new project.</p> <p>Requested by: User name Project name: Project name Project folder: Folder name Project filename: Filename</p>
<p>Message M_S_C_3</p> <p>Uses Server Broadcast Message Pattern GUI_Message (SB)</p> <p>Sent to the User seeking to create the project</p>	<p>Subject: Project New From: Server Text Message: The new project is being created.</p> <p>Requested by: User name Project name: Project name Project folder: Folder name Project filename: Filename</p>

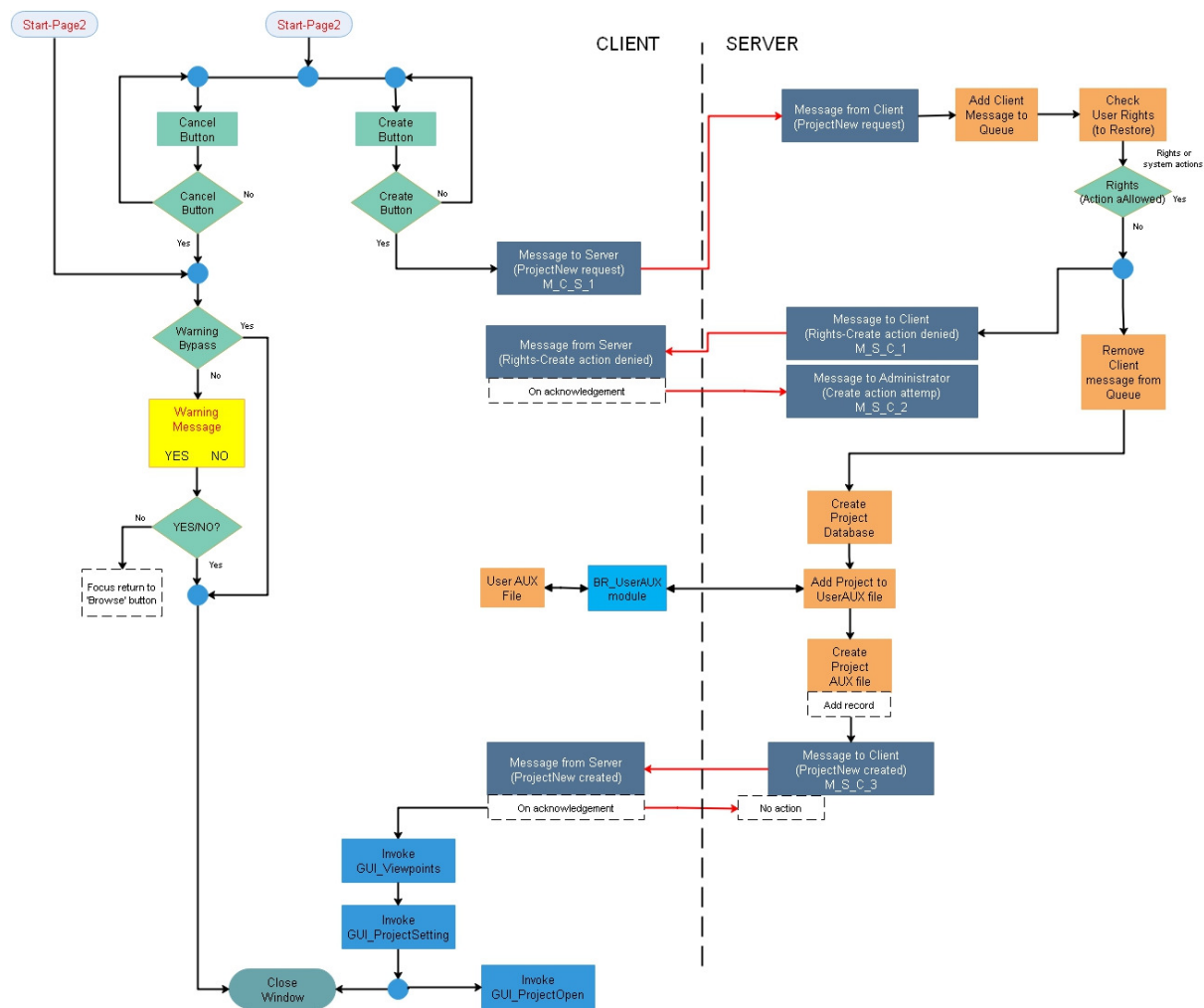
Location: Centred on the Users HRE main window

WINDOWS INTERACTION MAP



PROCESS FLOW CHART





NB: reference to invoking Project Open to be removed from above flowchart

USE CASES

- 1) Single User – Single Computer
- 2) Single User on a dedicated Server
- 3) Multiple user on a shared Server

What issues may arise when the Client & remote Server versions of HRE software are different?

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.

General requirements	Code element requirements
HRE installation package including seed database	Main GUI
1) Single computer	Project New
2) Client-Server	Project Close
	ExitHRE

Process

- 1) Install HRE

2) Run HRE

- a. Create a new Project
- b. Add data to the project
- c. Close the Project
- d. Exit HRE

3) Check result (how?)

See Test Plan document