

GUI_ProjectOpen – Open a Project

Revision history

2017-06-21	Robin Lamacraft	Original draft
2018-05-27	Rod Thompson	Inserted diagrams, actions
2018-06-08	Rod Thompson	Replace graphic and Window Interaction Map Replace 'screen' with 'window' Replace 'BR_PanelConfig' with 'BR_WindowConfig' Replace 'BR_Notification' with 'BR_Message Patterns'
2018-06-09	Don Ferguson	Updated Required Services (Dependencies), added issue list to Scope
2018-06-14	Rod Thompson	Edit; Add WARNING CONDITION; Add PROCESS FLOW CHART
2018-06-16	Don Ferguson	Removed ProjectRecent as a dependency, as this module performs those functions anyway
2018-06-17	Don Ferguson	Added to Scope Issues 2 & 4 and Actions item 4
2018-06-26	Rod Thompson	Remove Issues Notes; Replace window graphic & WINDOW INTERACTION MAP; Replace PROCES FLOW CHART; Add PROJECT FILESET and NOTES; Revise LOOK and FEEL; Revise ACTIONS
2018-07-03	Rod Thompson	Add Use Case 1; Replace Process flowchart
2018-07-05	Rod Thompson	Amend Use Cases; Add TESTING
2018-07-17	Don Ferguson	Edited Use cases; added commentary on plugins
2018-12-09	Rod Thompson	Replace graphic, Add location detail; Add LOGGING section
2018-12-12	Rod Thompson	Replace graphic (add Connect to New Server button); Add Use Case 3; Add Issues (SCOPE); Add 'Connect to New Server' button (LOOK AND FEEL); Replace Process Flowchart (pages-2 & 3); Addition to NOTES; Add Use Case 6 detail
2019-02-14	Rod Thompson	NOTES -Revise to expand range of projects accessible Replace window graphic
2019-02-21	Rod Thompson	Add Issue – updating project data (UserAUX file) ACTIONS-Revise
2019-04-07	Rod Thompson	REQUIRED SERVICES – Add 05.31 GUI_Output
2019-04-08	Don Ferguson	Replace mockups with actual screen shots Revise text to match actual screen functions Update 03.6x references to 05.8x
2019-04-28	Don Ferguson	Revised screenshots based on use of a real UserAUX file; revised Dependencies
2020-02-27	Don Ferguson	Align with actual code (Build 19)

SCOPE

This GUI module is called from the Main Menu to open an existing an HRE project for use.

PROJECT FILESET

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

- an HRE format H2 database
- A 'User' Auxiliary file (possibly created at Open)
- Appropriate log files (possibly created at Open)
- folders of external files (images, etc) [optional].

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

NOTES

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 entry (for each Project) is

created. This system provides a linkage between Users and Projects.

A list of projects (local and remote) that can be accessed by the User is displayed for selection. This data is loaded from data read from the User Auxiliary File where projects have previously been worked on by the user. Other Projects may be accessible:

- on the local computer, accessed via browsing the OS file explorer, or
- on a server known to the HRE-Client, accessed (once logged in) via browsing the OS file explorer, or
- on a new server where advice of such projects is notified to the User, and access is granted by an administrator.

Any 'other' project selected by the above method is added to the project display.

First time access to a project on a Server, requires a different approach to the Project Open.

See Use Case 3.

LOOK AND FEEL

The window has several parts:

- A frame with the window name, and window close X icon
- The upper right icon buttons provide the following universal features:
 - The 'Output' icon enables Output of the Recent Projects list by sending the contents of the Recent Projects tabular display to a file or to a printer
 - The 'Reminder' icon displays the Reminder content for this window
 - The Help icon displays context Help about the use of this window.
- A 'Projects' scrollable tabular display area which shows all of the user's accessible projects. If the selected project is located in a server, access to that server may be established (if the user is already logged into that server); or otherwise via a login process. (GUI_ServerLogin)
- A 'Browse' button provides access through the OS file explorer to search for other projects located on the user's computer
- The 'Server Login' button allows selection of various servers known to this installation of HRE. On use, access is provided to select a server and project (where administration has provided accessibility)
- The buttons:
 - "Summary" opens a Project Summary window, displaying a summary of the project
 - "Open" performs the project open functions on the selected project
 - "Cancel" exits without action.

Project Open

Select a known Project:

Project Name	Filename	Local/Remote
HRE Sample project	HRE Sample database v16d	Local

Or search for another Project file:

Find another Local Project

Browse...

Server Login for a Remote Project

Server Login

Selected Project

Project Name

Project Filename

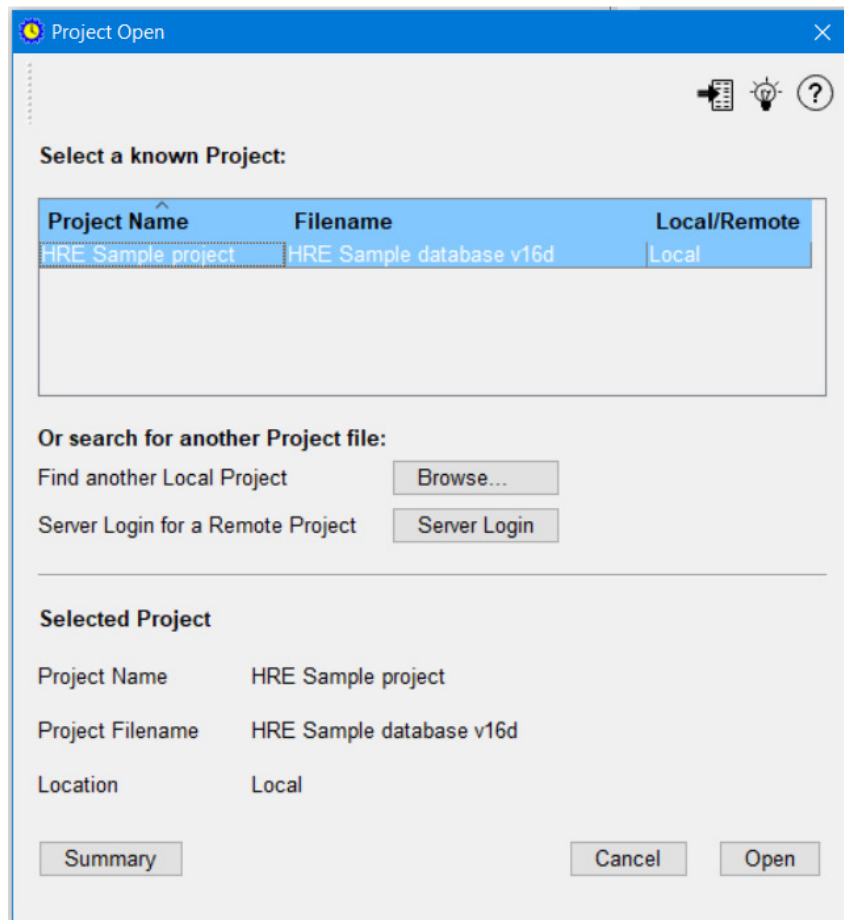
Location

Summary

Cancel

Open

PROJECT OPEN Window – initial view



PROJECT OPEN Window – project chosen

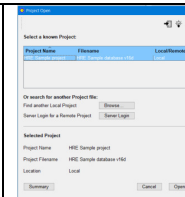
Shape, Size, Color, Layout etc. determined in design.

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
2. HRE has 3 possible installation variants:
 - Local mode -where HRE acts as an application entirely within one computer
 - Mixed mode - where HRE has both some project files stored locally and some are stored remotely on a local network server or in some external internet service
 - Remote mode – where no user data is stored on the local computer and all data must be transferred across a network.
3. Accordingly, the GUI_ProjectOpen module has to adapt to each of these modes. Local Mode requires no login capability, but the other 2 modes require this interface to adapt itself according to the type of request. To achieve this, GUI_ServerLogin has to provide access
4. Displays a list of projects available to this User (as controlled by access rights)
5. The project list display is sorted by Project name

6. When new shared projects are identified on a Server, and selected, the selected project may be opened, but is not added to the known projects list until Open completes
7. The Project Summary button allows the user to view in a new window, summary information about the selected Project
8. For a Remote project (**not yet implemented**):
 - Check the status of a remote project to identify whether it is currently unavailable because of backups in progress or other system actions
 - Check status of the selected project to see whether it is already open by other users
 - If already in use, notify all concurrent users of this user joining for update activity. This is to be done using the BR_Message Patterns and GUI_Message Patterns modules (a Server function)
9. Open the selected project file
10. Add records to the User Auxiliary File.

USED BY

All HRE users.

DATA CONTROLLED BY THIS MODULE

1. None.

REQUIRED DATA CONTROLLED BY OTHER MODULES

1. None.

REQUIRED SERVICES – Dependencies

First-Order Dependencies	Second-Order Dependencies
04.14 GUI_ProjectSummary	--
05.14 GUI_Help	
05.40 GUI_Reminder	
05.75 GUI_Server Login	
05.31 GUI_Output	05.77 GUI_FileChooser
05.77 GUI_FileChooser	
07.44 UserAUX	
07.11 Logging	

APPLICATION PROGRAMMING INTERFACE (API)

1. Single call, 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
Close Session	128
Move and/or resize window	305/306?

General Log

This includes:

- Project Open

EVENT ACTIONS

1) Keyboard actions

NIL

2) Mouse actions

Drag and drop mouse actions to move the window

Setting changes saved to database for User>Project>Window

Left key

- a. Mouse key click on a Project Name, causes the pathname and project name to be shown in the text boxes
- b. Mouse key double-click causes Project to be opened
- c. Mouse key click on each other button, operates the button
- d. Mouse key click on icons (detailed below).

Right key

to be determined

3) Icon actions

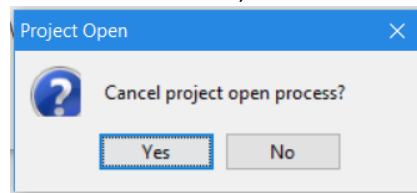
- a. left mouse key click on icons in the Window Control group:
 - a. 'X' icon - closes the window
NOTE: Same action as in use of the 'Cancel' button
- b. Left mouse key click on the 'Output' icon:
(opens the 'Output' window for output to File or Printer)
- c. left mouse key click on 'Reminder' icon:
(opens 'Reminder' window for this 'Send to Colleague' Message display)
- d. left mouse click on 'Help' icon:
(opens the Help System, searches for the section on 'Send to Colleague Message')

4) Keyboard shortcuts

to be determined

WARNING CONDITIONS

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



Press YES for close Project Open and return to the HRE Main Menu.

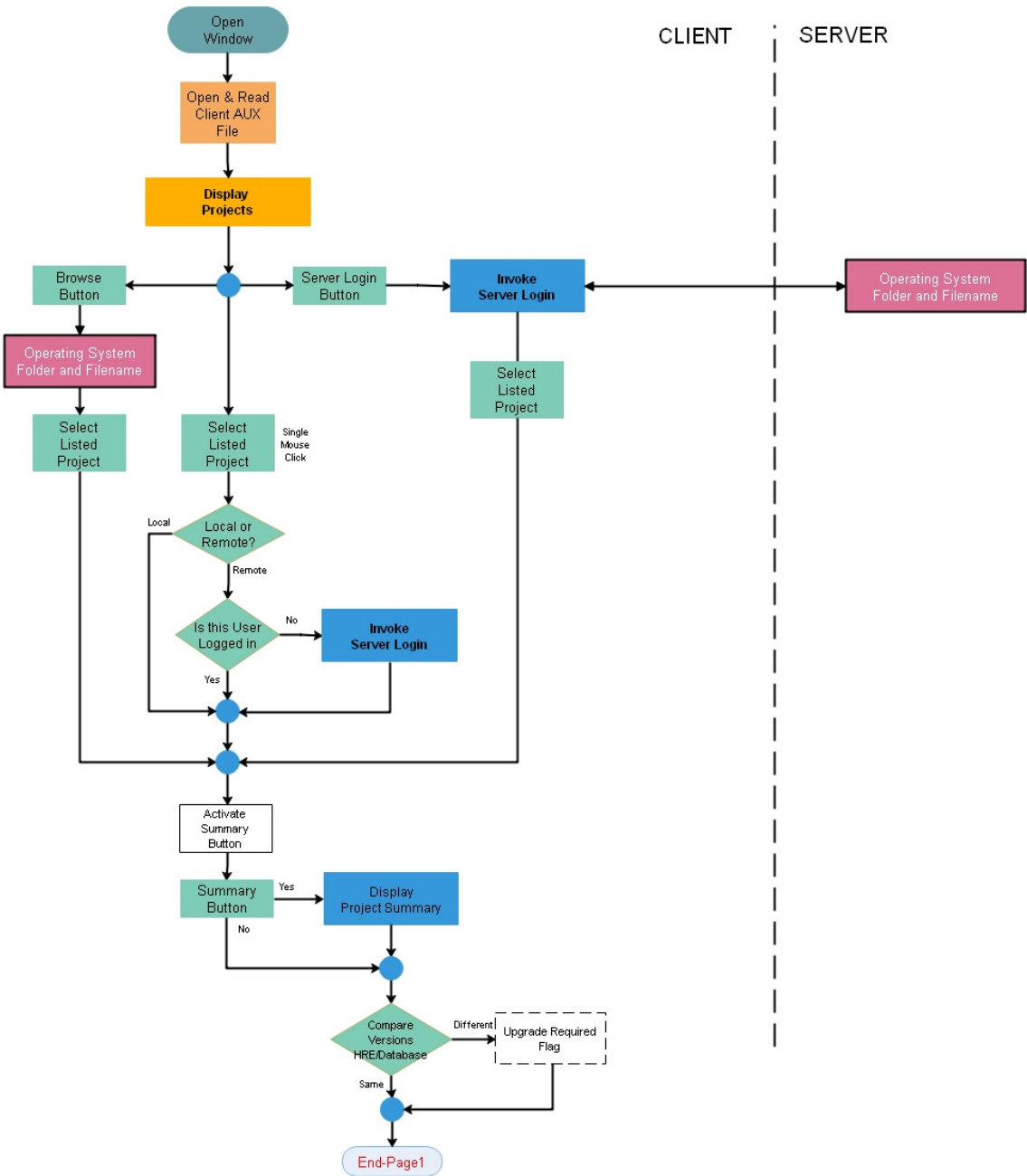
Press NO to stay with the Project Open window..

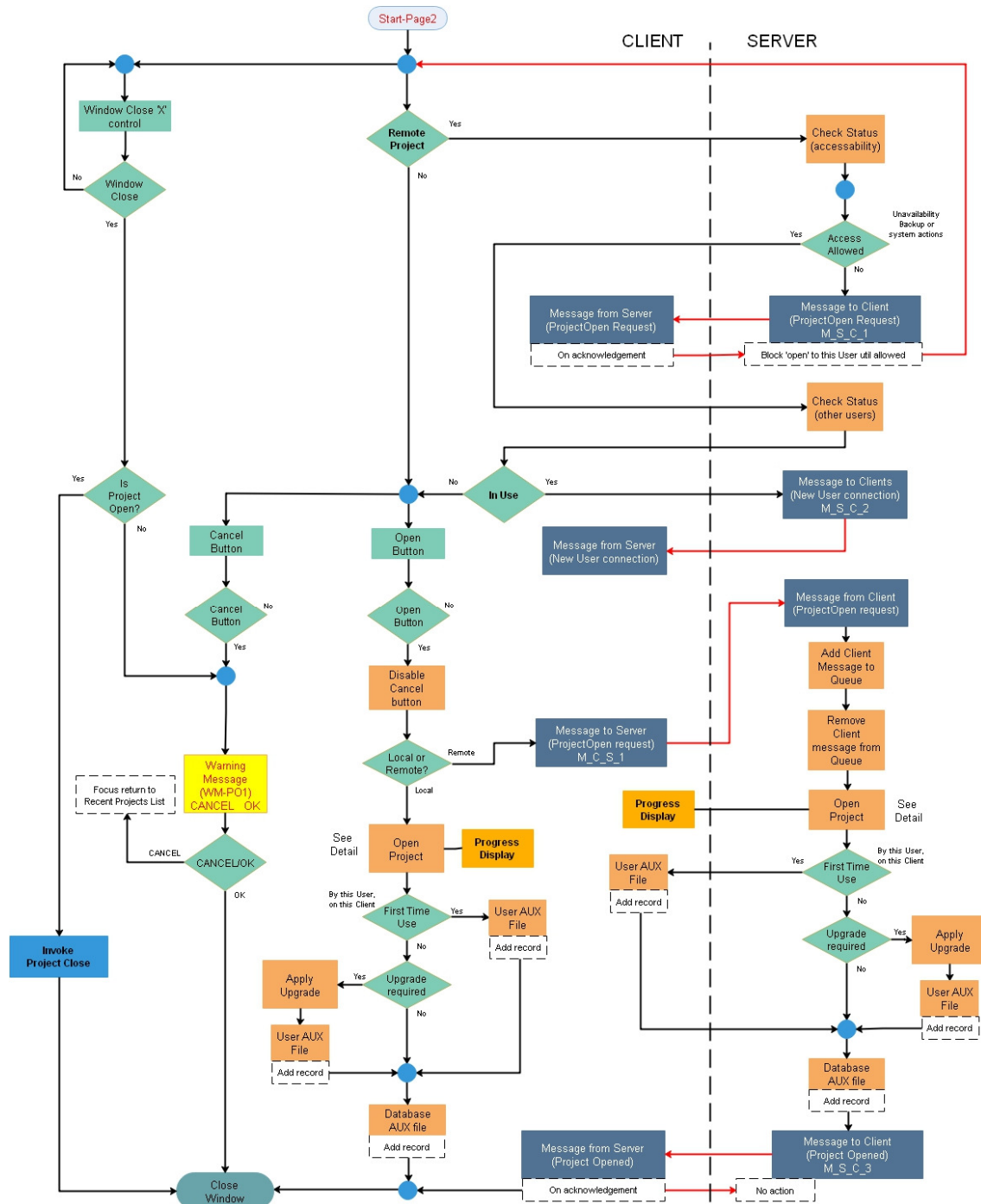
ERROR CONDITIONS

1. Need details of the condition that raised the error, example message.

NB: above map requires change of 03.66 to 05.87 and 03.68 to 05.88

PROCESS FLOW CHART





USE CASES

- 1) HRE Software and Project version differences (Single computer or Client to Single Server)
- 2) HRE Software and Project version differences (Server based multi-user)
- 3) Open an unknown Project on a Server previously not accessed by the User
- 4) Single user – open one HRE Project (local computer)
- 5) Single user – open one HRE project (remote computer)
- 6) Single user – opening 2 HRE Projects concurrently (local computer)
- 7) Single user – opening 2 HRE Projects concurrently (one local, one remote)
- 8) Single user – opening 2 HRE Projects concurrently (both remote)
- 9) Read-Only open (as distinct from normal Read-Write)

NOTE: Where the Use Case identifies 'version difference' this can be either a difference in HRE software/database version numbers OR a difference in installed HRE plugins. Where the difference is only in installed plugins, a database open should only be allowed if (a) the user has full admin rights, and (b) the software has an extra plugin compared to the database set.

Further consideration is required of all possible version/plugin differences, otherwise there is a possibility that installing a plugin will make it impossible to open an existing Project database.

Use Case 1

Single Computer, or Client to Single Server - HRE Software and Project version difference

Where the database version is lower than the software, then the database is in need of upgrading.
Where the database version is higher than the software, no access is allowed.

Where the upgrade is possible (software determination), then carry out the upgrade.
Save the database, and update AUX file record database version.

When access is not possible, additional information needs to be provided to the User (i.e., software and database version numbers).

Use Case 2

Server based project (multi-user) - HRE Software and Project version difference

An administrator probably determines the software versions of client installations.
Project versions and client HRE versions will generally match.

An exception may be a guest client user. In which case the user rights are likely to be limited.
If rights are open, and the guest user has a newer version of software, then any data saved by the guest user may cause problems for the broader user base, so an upgrade of the database should not be allowed.

Another exception may exist where multiple organisations share a common project on a server.
Rights will have to determine action taken where a project/software version difference is detected.

A new specification is required (BR series) to define requirements resulting from HRE software version changes. The presumption is that with each software version upgrade, a set of rules will be established for project database upgrades, embedded in the software.

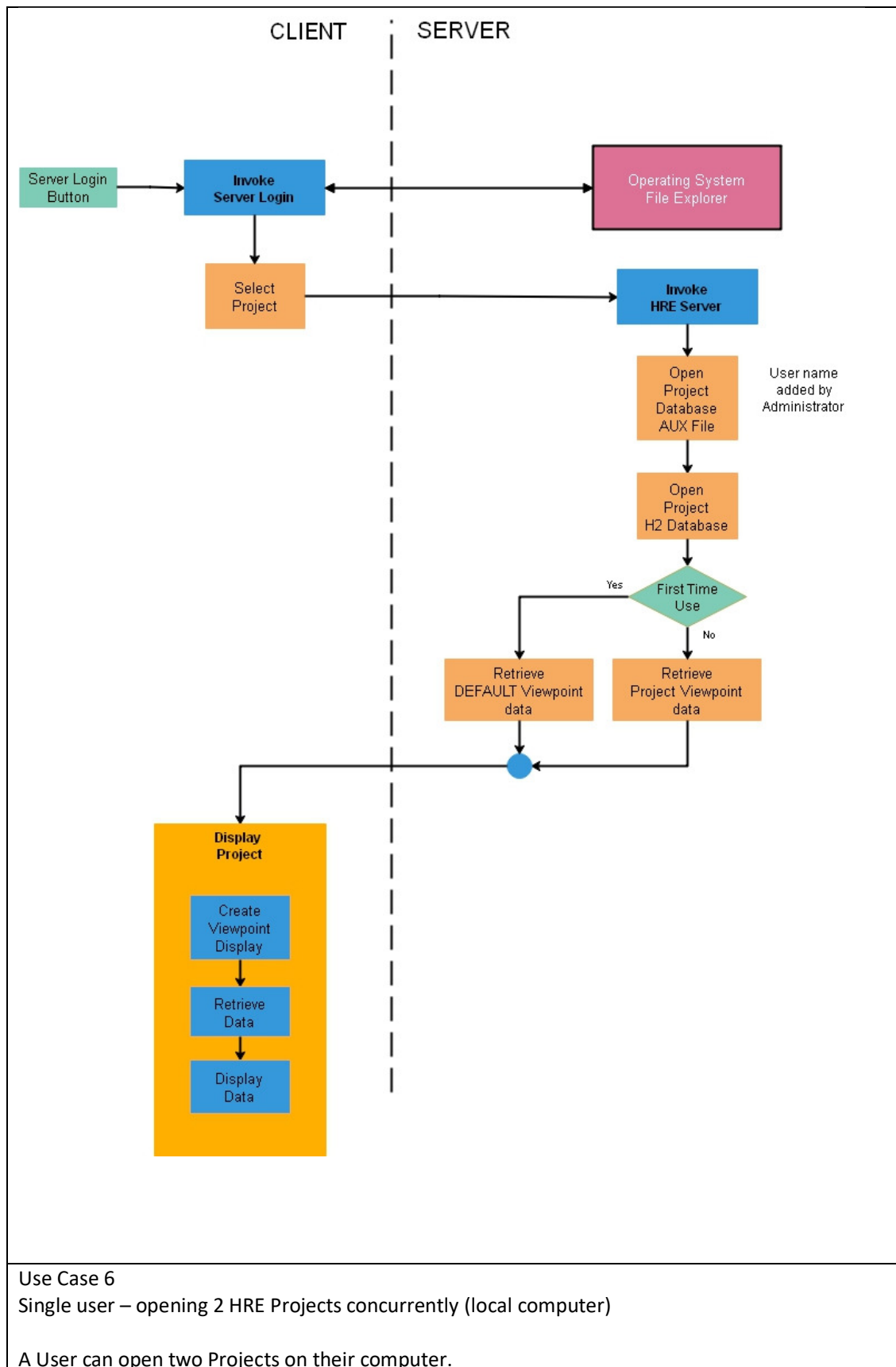
Use Case 3

Open an unknown Project on a Server previously not accessed by the User

Assume the User can access the Server computer, and has the Rights to access the Project.
Using the "Server Login" button on the HRE Client initiates the process displayed below.

Notes:

- 1) Accessing projects (previously unknown) in this manner will require that the Project can be opened by use of the 'double-mouse-click' on the project database filename in the Server file explorer. This methodology for opening a project is presently recorded as requiring later consideration. There may be other implications.



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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	Project Open
2) Client-Server	Project Close
3) Test Project database fileset	ExitHRE

Process

- 1) Run HRE
 - a. Open the Test Project
 - b. Add data to the project
 - c. Close the Project
 - d. Exit HRE
- 2) Check result (how?)