GUI_ProjectBackup – Backup a Project

Recent Revision history

2017-04-04	Don Ferguson	Original draft
2018-05-27	Rod Thompson	Add Mockup window graphics; Add Event Actions
2018-06-02 & 03	Rod Thompson	Revise Process Flow chart; Revise Mockup graphics; Add Warning Messages
2019-04-14	Don Ferguson	Replace mockups with real screens
2020-03-02	Don Ferguson	Align with actual code (Build 19)
2023-07-15	Don Ferguson	Align with Build 30

SCOPE

This GUI module is called from the Main Menu or from GUI_ProjectClose, to backup a current project.

Note: it is assumed that a backup cannot be performed while others are active on that same project database. It is also assumed that it is not legal to only backup part of a Project database. However some external files (like images and other Digitals) can be optionally included in a backup.

Issues to be resolved:
- questions arise when considering remote, server-side projects, in relation to authorization, privilege and file locations.

PROJECT FILESET

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

- A project database
- a 'User' Auxiliary file
- folders of external files (images, etc).   [optional].

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

BACKUP FILE

The backup file is a zip file created on the Server. Optionally, backups of other external files like images, etc may be made to a separate zip file.

A complete backup is the only way to be able to move a project to another computer.

Default naming convention
Uses the existing Database filename, with the current data and time, filetype .hrez.
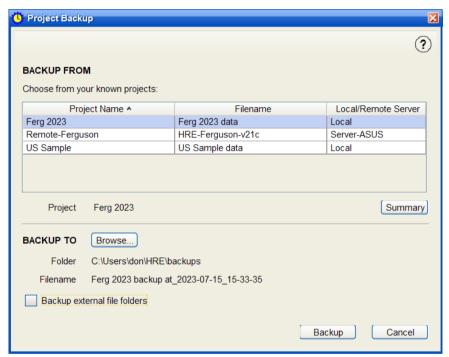
USER RIGHTS

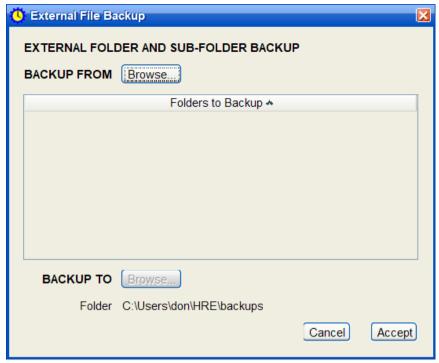All Users have Project Backup rights.

LOOK AND FEEL

The window has 5 parts:

- A 'Backup From' scrollable display area which shows all of the user's currently open projects, by name and which allows the selection of a file from the displayed list. The list order is that applicable to the opening of the Projects (this may be empty if no projects are open).
  A display of additional project status information, relevant to the backup of the Project
- A 'Backup To' area which allows the selection of a folder and filename for the backup fileset
- The buttons "Browse" (for each display area), "Server Login", "Summary", "Backup" and "Cancel"

- o The "Browse" buttons allow the user to search the project records in the User AUX file for a valid HRE project to backup. In the 'Backup To' area, the "Browse" button accesses the file-system for a location to save the backup file
  - o The "Server Login" button allows the User to connect to the server where the selected project is located
  - o "Summary" button opens the GUI_ProjectSummary module to display the details of the selected project
  - o "Backup" performs the project backup functions on the selected project, and (optionally) any external folders
  - o "Cancel" exits without action.
- Check boxes
  - o "Include external referenced files"
- If the 'Backup' button is used, a Progress Display window opens.

PROJECT BACKUP Window – with project selected

PROJECT BACKUP Window (External folder selector)

ACTIONS

The fundamental operations are:

1. Open the window
2. Allow selection of a project, or browse for another project to be backed up
3. Allows connection to a remote server, when a project (so located) is selected by the User. The Server Login button is made visible by selection of the remotely located project, and re-hidden on use of the 'Cancel' button
4. Use of the Server Login button invokes the 05.75 GUI_ServerLogin module
5. Allow the User to view a Summary of the project. The Summary button is enabled after selection of a project, and disabled on use of the 'Cancel' button
6. Select whether external files are to be backed up
7. Allow selection/entry of a filename and location to save the backup
   The 'Browse' button opens the Operating system File Explorer through the 05.77 GUI_FileChooser module
8. Selection of the option to backup external folders opens a secondary window that allows selection of those folders/files and their backup location
9. Wait until all outstanding transactions from this client are completed
10. Check the number of current users of this project
11. If only one user, then perform a backup task for this project within the server, else queue a backup task for this project within the server
12. Prevent any further logins to the database until the backup is completed
13. This backup setup task is to be notified to all concurrent users
14. The server to perform that backup as soon as possible when all users have disconnected
15. The backup completion is to be notified to all users registered to receive that notification
16. On completion of backup (one user only), or having messaged the Server of the backup requirement, close the window and return.

BACKUP ZIP FILES

ZIP file code for the creation of the backup file collects the relevant folder and file data, then creates the backup file under an hrez filetype.
Backup of external data is gathered under a standard zip filetype.

LOGGING
Use of this module will create log entries.