



CS503: Project 2

You are to build upon Project 1. This means all features in Project 1 must be functional in this project and future projects.

You have the option of using my solution sources as your starting point for any project.

1. New Library call it KeyPassInfoModel (5 points)

- a. This is where all the data contracts should go.
- b. Things such as Group, Key, ...

2. Three Panels (10 points)

- a. Left- GroupTreeControl : User Control contains a TreeView Control and a ToolStrip
- b. Right- KeyListControl : UserControl contains a ListView Control and a ToolStrip
- c. Bottom Panel (Empty for now)

3. Add/Edit/Delete Groups: (25 points)

- a. Provide adding only single-level groups
- b. Provide a "Test" button that adds random group names.
- c. **Relevant** toolbar buttons and menu items must be functional for all of the above operations.
- d. Remember TreeView should have an icon, GridLines = true, HideSelection = false

Hints:

- Set TreeNode to Selected whenever a node is added (TreeView.SelectedNode = node)
- Deleting a node results in another node (usually the node above) to automatically be selected. However, when the last node is deleted, no remaining node exists and thus the "AfterSelect" event will not be fired. Test adding a single group, then adding one or more keys to that group, then deleting that group. Note that this requires special handling as you cannot rely on the "AfterSelect" event in this case.

4. Add/Edit/Delete Keys (30 points)

- a. Allow multiple Keys per group
- b. Provide a "Test" button that adds random text to all the fields of a key.
- c. Each Key must have a Title, User Name, Password, URL, and free form Notes
- d. **Relevant** toolbar buttons and menu items must be functional for all the above operations.
- e. Remember ListView should be in Detail Mode. It must have FullRowSelect = true and HideSelection = false
- f. Remember to handle Multiple Selection (For Deletion)

5. Manage Group Selection and Corresponding Key Display (30 points)

- a. When a group is selected, the keys associated with that group should be displayed.