**General Order Application - Technical Specification**

The GeneralOrder Solution has been design to maximize 'separation of concerns' by implementing 5 different projects which will act independently from other projects within the same solution

These projects include :

* **DatabaseEntity**
  + This project handles all the Database Transactions called from the other projects. It is responsible for connecting to the Database and executing queries. It contains
    - A Model Folder that is derived from the Entity Framework ADO.NET module.
    - A DataController folder that contains all the methods for executing queries based of the Model Folder
    - A ViewModel folder that contains a representation of a Database Table. This Object is what is returned to the calling method after the query to the Database has been completed
    - App.Config file that is read by entityDBM that automatically connects to Entity Framework
* It contains a reference to **ApplicationLogger**
* It contains a reference to **GeneralOrderCore**
* **GeneralOrder**
  + This project handles the importing and uploading of a Microsoft word document. It has 4 main UI components.
    - GOImportFile which is responsible for selecting and importing Microsoft Documents.
    - GOFileDetailsUpload which is responsible for uploading the imported document into the Act Administration tables
    - GOImportFileSelect is responsible for the user to correct Acts that are incorrect (NOT USED)
    - GODepartmentForAct is responsible for allowing the user to select the Department if the Portfolio is associated to more than one department
* It contains a reference to **ApplicationLogger**
* It contains a reference to **GeneralOrderCore**
* **GeneralOrderCore**
  + This project contain all the core functionality for all projects within this solution. This enables code re-use and seperation of concerns.This project contains reusable classes such as RichtextBox class where it handles the user imput in thr Comments TextBox as well as Datepickerxs and messageBox helpers
* **GeneralOrderUpdateDetails**
  + This project handles the user interation with the Portfolios/Acts that have been uploaded using the **GeneralOrder** application. It contains:
    - GOActAdminDetailsUpdate which is responsible for displaying acitve and pending General Order Acts.
    - GOActAdminAdd which is responsible for adding new Acts into the pending listbox
    - GOActAdminUndividualDetails which display an Act that has been selected by the user in GOActAdminDetailsUpdate to edit.
* **Reporting**
  + This project handles the reporting processes from all the projects in this solution. It contains:
    - ActAdministration Report
    - Administered Acts Report
    - CreateGeneralOrderDoc which reproduces from Database Data the General order for users to compare to the original used in GeneralOrderUpdateDetails project
    - CreateOriginalDoc creates a General Order from the imported General Order used in GeneralOrder project
* **ApplicationLogger**
  + The Application Logger is referenced from all projects that require logging database transactions into the Database. This will enable users to Audit what processes have been performed.

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| General Order Solution overview |
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| **General Order** |
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