The convention about project structure for developing PLC solutions and software for it.

# Folders structure

* **<Account/Customer/Job Name>** 
  + **[Development]**
    - [SOFTWARE]
      * <Project Name 1>.<???> - name must reflect function
        + {SQL} - VS Project sepecific stand-alone query or stored procedures (debugging)
      * <Project Name 2>
      * <Project Name N>
    - [Controls]
    - [SOLUTION]
      * + {SQL} - Solution specific stand-alone query or stored procedures (debugging)
    - [Documentation]
  + **[Production]**
    - [SOFTWARE]
      * Deploy
        + Setup and Install (.exe, \*.msi)
      * Non Setup Manuals
    - [SOLUTION]
    - [Documentation]
  + **[Documentation]**
    - [Environment]
    - [Requirements]
    - [Team members]
  + **[Changes]**
    - [Repository]

## Description

* ***<Account/Job Name>*** –The customer name\code. All the related customer files will store only at that folder.
* ***Development –*** The folder for development folders. All the new features or features, which current in development will store in it.
* ***Production –***All finished, well tested and stable final developed issue will be storing in this folder. Here you can store ready to setup binary files, instruction how to install, but NOT a large files or files, that are not related to production solution. Large files – more than 100MB, but it can be omitted. Only current production code.
* ***Documentation –***Here you have to storing all project documentation, e.g docs, about at what environment issue can executed, functional and non-functional application requirement, technical documents, ssrs and so on.  
    
  Also, you can create here other optional folders, but such folders have to have hierarchy on structure, which they depends on, E.G: As a developer I want to create folder, where I could save the repository related documents about steps to authorize in it, adding and deleting new objects etc. For such purpose I need to create **[Development].[Repository]** folder structure in the root **[Documentation]** folder.
* ***Changes –***Revisions of each production version (ideally).  
  Important: repository commit hash code of current released production version. Store in repository folder.  
  Ideally: Release notes, what was done, binary setup files.

## Folder name

**IF you find folder, that related for your strive, you have to give this folder such name!**

* ***Repository*** – folder for storing all repository related objects. E.G. Docs, scripts, path etc.

# Files convention

* Each file should start with the capital letters and should follow [snake naming convention](https://en.wikipedia.org/wiki/Snake_case).
* The name have to be understandable and obvious for everyone.
* Couldn’t use next symbols:
  + < (less than)
  + > (greater than)
  + : (colon)
  + " (double quote)
  + / (forward slash)
  + \ (backslash)
  + | (vertical bar or pipe)
  + ? (question mark)
  + \* (asterisk)
* Try to save as less as possible files type, E.G. try to avoid docs and doc – choose one of them.

# Designation

* <>: <Name> –The name is flexible and depends on:
* Customer
* Project code name
* []: [Name] – The name IS NOT flexible and that mean, that you can give only that name to this folder and this folder should be created and fill out.

This file can be updated, so try to keep and follow latest version.