DAC Software Project Development Phase-I Paperwork Guideline

1. Decide Scope of your project

- While deciding scope of project do consider following points :

- who is your end user?
- what is your Objective?
- consider project limitation
- list down your own ideas
- Then accodingly decide roles and functionalities for your project.
- After this prepare **use-case diagram** using any tool/application(like draw.io).

2. UI Design

- prepare **UI diagram** for this (You need to draw the **User Interface/Forms** and the **flow of your project using Paint or any other** drawing tool)

3. Database Design

- Find and organize the information required.
Gather all of the types of information you might want to record in the database.

- Divide the information into tables
Divide your information items into major entities or subjects, such as Products or Orders.

- Turn information items into columns
Decide what information you want to store in each table. Each item becomes a field, and is displayed as a column in the table.

- Specify primary keys
Choose each table's primary key. The primary key is a column that is used to uniquely identify each row.

- Set up the table relationships
Look at each table and decide how the data in one table is related to the data in other tables. Add fields to tables or create new tables to clarify the relationships, as necessary.

- Refine your design
Analyze your design for errors. Create the tables and add a few records of sample data. See if you can get the results you want from your tables. Make adjustments to the design, as needed.

- Apply the normalization rules
Apply the data normalization rules to see if your tables are structured correctly. Make adjustments to the tables, as needed.

- Once finalize with database design draw "Entity-relationship(ER)" diagram.