# *Project Guidelines*

**Please read all instructions carefully.**

## 1. Complete project work is divided into three stages as follows.

**Stage 1: - Documentation**

1. System requirement specification (SRS)
   a. Analyze functional and data requirements to work the system properly.
2. System modeling
   a. Entity-relationship (ER) diagram.
   b. Schema design
   c. Data normalization.
   d. List of tables required.
   e. Additional components
      i. Functions or procedures, if any required for the smooth working of the proposed system.

*Complete documentation should be in a single PDF file.*

**Stage 2: - Database Programming**

Development of SQL queries.

1. Database creation,
2. Tables, view, and function creation.
3. Data generation and insert.
4. Data retrieval and update queries.
5. Test case queries to validate the design of the database.
6. The sequence of SQL queries must be as follows.
   a. Create database.
   b. Use database.
   c. Create tables and views.
   d. Insert data in tables.
   e. DML operations like select, update, and delete.
   f. In the end, drop tables and database statements (commented form)
   g. *All queries should be submitted in a single SQL file.*
   h. For reference of SQL file format, check database files shared with you to use in sessions.
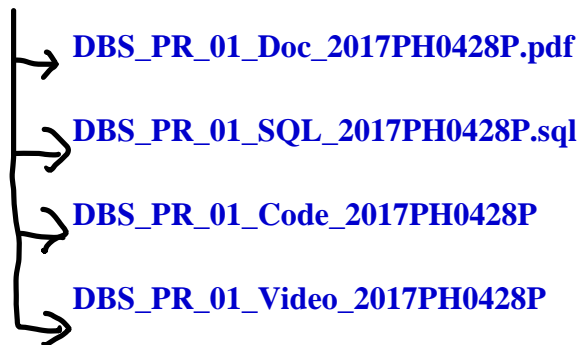
**Stage 3: - Frontend Development**

Develop a frontend in any programming language to show the system's overall functionality.

## 2. Submission guidelines

1. You must submit the documentation in a single PDF. Filename must be in the format **"projectcode_Doc_BITSID.pdf,"** for example, **DBS_PR_01_Doc_2017PH0428P.pdf.**

2. You must submit the SQL queries in a single SQL file. Filename must be in the format **"projectcode_SQL_BITSID.sql,"** for example, **DBS_PR_01_SQL_2017PH0428P.sql.**

3. The complete code of the project must be in a separate folder. The folder name must be in the format **"projectcode_Code_BITSID,"** for example, **DBS_PR_01_Code_2017PH0428P**. Your project code folder must have a "Readme.txt" file **containing instructions to run the code**.

4. You must create a video of about 10 minutes demonstrating your project's work. Video filename must be in the format **"projectcode_Video_BITSID,"** for example, **DBS_PR_01_Video_2017PH0428P.**

5. You need to submit a single zip file containing all files mentioned from points 1 to 4, documentation PDF, SQL file, project code, and demonstration video. Filename must be in the format **"projectcode_BITSID.zip,"** for example, **DBS_PR_01_2017PH0428P.zip.** The directory structure of the final submission must be as follows.

**DBS_PR_01_2017PH0428P.zip**

**DBS_PR_01_Doc_2017PH0428P.pdf**

**DBS_PR_01_SQL_2017PH0428P.sql**

**DBS_PR_01_Code_2017PH0428P**

**DBS_PR_01_Video_2017PH0428P**

6. **The invalid filename may impose a penalty of negative marks.**

7. Only one group member needs to submit the project files for the student working in a group.

## 3. How to submit the project files

1. All the submissions must be through only google classroom.

2. The google classroom **class code** is **kehwvry.** Join the class with the given code.

3. There are three assignments links for a group of project codes.

4. Submit your zip file only in the assignment corresponding to your project code.

## 4. Queries related to projects

1. For the group of two projects, a senior BE / ME student is assigned as coordinator; you may find the coordinator's name from the project list file, you can ask them for your queries related to the project.

2. After the final evaluation, the evaluation and marking scheme will be shared with you.

3. For any query related to the project, you can mail your respective BE/ME/Ph.D. coordinator. Please take care that your subject line must be "Query regarding the project." Emails with another subject line may be ignored.