# PERSONAL PORTFOLIO - 1

# Artefact – 1 - Database Tables

Database design is a structure that will be used as a plan to store and manage data, structure of which can be modified later on. It plays a pivotal role in the system as it acts as a base to start working on the project which leads onto more complex stuff. For our project, I worked collaboratively with Ehren to design the database for the proposed system. I was responsible for writing the queries to create the lease signature table, owner table, property management table, room table, share house table and tenant table, the files of which can be found under the Artefacts-1-Database Design folder. These tables can then be used to write stored procedures and views on the tables to perform the CRUD operations which include create, read, update and delete operations. The following item was chosen as a part of my personal portfolio due to the fact that the database design is a must have and that it plays a essential role in data storage and management of the property management application

# Artefact – 2 - Update Whole House

The Update Whole House Page is an example of my work that entitles the users of the system to update the details of the whole house including the number of carparks, buying price, address, etc. Its functioning is spread across three files which includes updateWHouse.php, update\_w\_house.sql and db.php. The updateWHouse.php file makes use of HTML and PHP to display all the fields on the page. The updated details are then stored into the database using the update\_w\_house.sql stored procedure. The following item was chosen as a part of my personal portfolio due to the fact that it is one of the most essential feature of the application.

# Artefact - 3 - Add Share House

The add share house page is another example of the work I have done. The main aim of this page was to allow the users to add share houses. Its functionality is spread across two files which includes addsHouse.php and db.php. The addsHouse.php fetches the data from the user. The fetched data is then stored into the appropriate tables in the database via a stored procedure called add\_property\_s\_house.sql. Since this file item was essential in the operation of the application, I have subsequently included it as a part of my personal portfolio.

# Artefact - 4 - Search Share House

The search page was an example of collaborative work with one of the other team members. The main aim of this page was to list all the share houses based on the filters set in the search form and link each results to the view property page. My contribution to this page revolves around displaying the results without incorporating the corresponding search filters. Its functionality is spread across three files which include db.php, search\_s\_house.sql and searchproperties.php. Utilizing my MySQL skills, a query was written to fetch the data from the database. This was then passed on to searchProperties.php page via a db.php which links the MySQL results and php page to ensure all details of the property including the address, number of rooms, image, etc. are visible to the user in an appropriate way. I have included this file in my portfolio due to the fact that it was one of the most essential feature in the operation of the application.

# Artefact - 5 - Database Views

The fifth artefact in my personal portfolio is the database view for the view share house details page. The main aim of this view was to utilize my MySQL skills to retrieve information related to share houses which is stored in the different tables of the database. The v\_s\_house\_property\_details.sql employs the concept of MySQL Joins to gather data from three different tables including the room table, property table and property\_pic table respectively. When retrieving the number of rooms from the room table, a MAX constraint was used on that field to ensure that the view only returned the Maximum number of rooms that that particular sHouseId had. It is paramount task in the functioning of the view share house details page, hence why I have included it in my personal portfolio.