**SIES 630-01 Database Management Systems & Design**

**Final Project, Part 2: Final Project Draft**

**Project Topic: Cooking Recipe Portal**

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* 5 points: In a section labeled "introduction" describe your project in a way that informs the class about the general topic, gives a summary of your project, explains why you chose it, and what were the minimal and optimistic goals.

**Introduction**

**summary**

The project is based on the development of a database for Online recipe portal. This project aims to create user friendly platform for the users which will be useful for every food lover to explore and share different recipes on it. This portal will have options like recipes, recipe Ingredients, recipe category, and reviews. It will also have two tables as admin and users where admin can post recipes and has an authority to delete it whereas user can explore recipes, interact with fellow foodies, save their favorite recipes, and contribute their own creations to inspire others.

My primary reason for choosing this topic includes my interest in cooking. I being a pure vegetarian have very limited options in restaurants which is why I always have a need to look up on web searches for new recipes. I already have my list with me but with this project I will try making a database which will be useful for others too.

The minimal goal for this project is to create the well designed and structured database. From a security point of view admin and user will have registration and authentication options. Data for every new user will be saved on the user’s table. Reviews and comments will have a different table which will also decide recipe with highest reviews based on data.

The optimistic view would be to enhance the performance of the database, implement advance queries. Make an effective normalization which will make database structured and easy to use.

* 5 points: In a section labeled "**exploring**" describe your initial starting point (previous database experience), what were your initial ideas, the topics you considered, and sources of information you used to pick topics.

**Exploring**

**Starting point**

My initial understanding of the databases was basic. I had experience of using SQL, MySQL, and MS access databases in the past with very minimal operations like creating tables, designing databases and simple queries with CRUD operations.

**Initial ideas**

When I started searching for a topic for the project, I planned to work on an online hotel management system, but I realized that it will be a vast database which will make it complex for me to maintain a simple approach. I decided to narrow down the topic and focus on the subpart of it which is cooking portal. This helped me understand the database and its relation in a simpler way and this will make me understand complex queries better in upcoming parts of the project.

**sources of information**

I visited some available online portals and cooking blogs. I decided what categories I should add in my project by looking at percentage of most viewed recipes. I selected different features for a user-friendly experience. Other than that, I referred to different database designs, some documentations, and online tutorials to make my project creative.

* 5 points: In a section labeled "**building**" describe what you did to build the database, what was the design, what data did you use (mock/synthetic data, data from external sources, hand-entered data, etc.), and what types of queries did you try to make possible. If you did a research-oriented project, then describe your findings and choose an appropriate structure/subsection for this section.

**Building**

**Database Design**

To start with database design, I started with identifying entities which I wish to add and then defining their relationships. This database includes tables for Admin, User, recipes, category, and ratings. I determined attributes and datatypes and added their primary and foreign key respectively.

**Database building**

I searched different websites like Kaggle for the database, but I found that there is no database which will match my project. So, for building this database I will be using mockaroo and will also add some data manually.

**Queries**

To build this dataset. I started by creating a table and inserting data into it. Further I used update, delete, truncate, and drop. After the basic CRUD operations, I used Join queries and tried sorting data using queries.

* 5 points: In a section labeled "**discovering**" describe what you learned from the project. Give a self-assessment describing where were you before class and if/how the project advanced your knowledge. If there was something that didn't work or you didn't have time to complete, discuss why it didn't work, what you might have done with more time, etc.

**Discovering**

Engaging in this project and taking this course provided me with a detailed knowledge and experience, mainly boosting my confidence in Oracle. Before this project I had limited knowledge in this domain, however this expanded my knowledge in database management.

I would like to thank Prof. Abe for making databases so simple and interesting for us. The hand on activity made me confident enough to handle difficult SQL queries with ease.