**Raymond You & Elizabeth Cho**

**CS 3200 Database Design**

**Professor Durant**

**Project Proposal**

The students names that are the members of the group

Raymond You

Elizabeth Cho

The name of the blackboard group

YouCho

A top level description of the project. Briefly describe the data domain and the functionality you plan to provide for the user

Our proposed project is an application through which users can create and reference their favorite outfits. The user will be able to add new articles of clothing, create new outfits, delete clothing, delete outfits. This application will save users the time and effort required to choose a new outfit every day.

The initial page will be a sign-up/login screen where the user can sign up and login to the application. Once logged in, the user can add outfits where each outfit can contain a top, bottom, hat, shoes, or outerwear. The user can create, remove, update, or delete these outfits. Users all have a view of their own, personalized outfits. If the user loses a clothing article in an outfit or removes a hat from a outfit, that field should be set to NULL since it wouldn’t make sense to delete the entire outfit as a result.

We will have a main table called Outfit and many other tables for each different clothing article such as tops, bottoms, hat, shoes, outerwear. These tables for the specific clothing article will contain fields for ID, Price, Brand, Size, and Material that are directed to the related foreign key labeled in the Outfit table. There will be a total of 6 tables.

Outfit (Main Table)

1. IDOutfit (Primary Key)
2. Name of Outfit
3. Tops (Foreign Key)
4. Bottoms (Foreign Key)
5. Hat (Foreign Key)
6. Shoes (Foreign Key)
7. Outerwear (Foreign Key)

Tops, Bottoms, Hats, Shoes, Outerwear (Other Tables)

1. ID (Primary Key)
2. Price
3. Brand
4. Size
5. Material

SQL vs. NOSQL storage

The project will use a MySQL Database for storage of each outfit and individual clothing article.

Software, Apps, Languages, Libraries and hardware that will be used to develop the project. Are there any machine restrictions for the project?

We will be using Python, Flask, JavaScript, and MySQL for this project. Flask is a Python web application framework, to create the application with JavaScript and MySQL as the backend.

Why does this project or this data domain interest you?

We believe that this a practical solution to an everyday problem: waking up in the morning and not knowing what you are going to wear. This database would help users have an organized inventory of their favorite outfits to easily reference to take that decision-making process out of their day. Furthermore, we love clothing.