# Project1 Creative Brief
## -Wei Miao

**App name:** E-Closet

**App's inspiration, goal and audience**

The idea of this app is from my daily life. I found my wife always cannot remember what clothes she has, especially at the season changing time, she just keep wearing several clothes which are mostly worn. However, when we clean up the closet and storage, we are always surprised that there are so many clothes for the past and coming season. I asked several of my friends and they said this also happens to them, especially for girls who have too many clothes. Another issue they have is it's hard to find a matching cloth for the one they are wearing because they cannot remember all the clothes they have. In addition, it is cumbersome for Moms who need manage clothes for the whole family.

So I want to develop an App to help people manage their clothes. The intended audience of this App is anyone who is able to use a mobile App and has the demand of managing clothes for themselves or their family.

**Proposed App Features**

*Core Features to be accomplished*

- Storage clothes information in a local device: when we buy a new cloth, we can add it to the App by taking a picture of it and save it with tags: "Owner", "Season", "Type", "Color".
- Providing retrieval/editing for saved clothes: users can find the saved clothes by searching with single or combined tags. They can also edit/delete a saved cloth.

*Advanced Features for future work (May not be accomplished in this project)*

- Automated recognition: when users take a picture for the new cloth, the App can do a pre-classification for its tags, users can correct the tags if it is incorrect.

- Matching recommendation (this is an expansion plan for future, would not be included in this project): when users select a cloth, the app can recommend other clothes they have which matching best with the selected one.
- Cloud storage (this is an expansion plan for future, would not be included in this project): users can store their data in the cloud, so it can be transferred to different devices. And it is safer to have the data backup on a cloud.

**Content Needed**
- Some example pictures for demonstration. Would download from google.
- Accessing camera and save the captured pictures.
- Database techniques for local data storage, including Saving, Editing, and Retrieval.
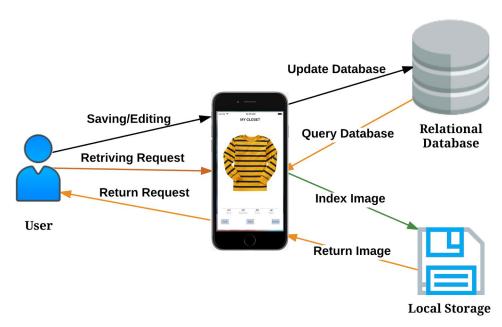
**App Architecture and UI Mockup**



**Fig.1** Proposed App Architecture

*App Architecture*
- Use a light relational database to store the attributes of each cloth image uploaded by the user. Potential databases options are SQLite, CoreData and

Realm. More study needed to select the optimal one for easy implementation and high performance.

- For images storage, I plan to store them into the local storage of user's phone. Thus, when the user is searching for clothes, a unique index of each queried cloth image can be retrieved from the database by cloth attributes, then the index can be used to find the corresponding cloth image from the local storage.
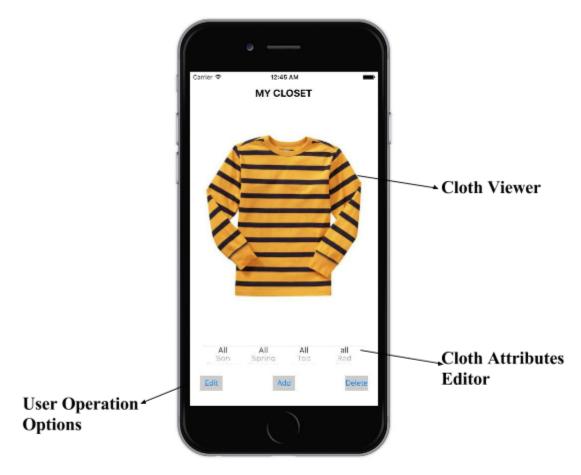
*App UI Mockup*



**Fig.2** E-Closet App UI Mockup