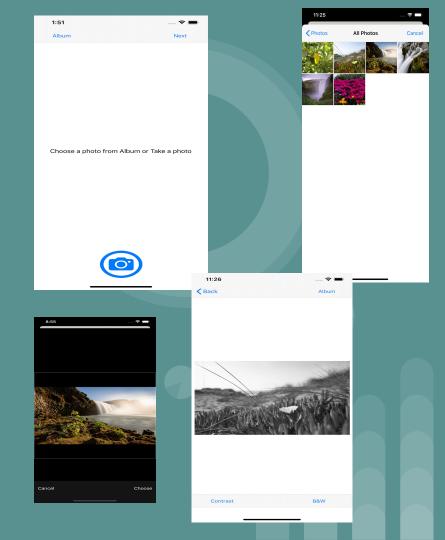
iBeauty---An Al driven Photo-editor

Zixuan Zeng (Hins)

- User Interface Design
- Functional Implementation (traditional photo-editing functions as many as possible)
- Advanced Function (Main Focus): Deploy well-tuned
 Machine Learning algorithms to enhance user experience;
 Study user photo-editing habits; Analyze users' favorite
 imaging styles in different photo types such as portraits
 and landscapes



Possible Solutions:

- 1. Traditional Functions:
 - Directly implement using libraries Corelmages and Ullmages in Swift (what I did): Fast but bad for flexibility
 - Integrate using MATLAB (I found out that MATLAB code could be translated into C code first then imported into xcode): Even though it is slow in terms of progress, but good for pixels analysis when combining machine learning algorithms
- Advanced Features:
 - To learn and track user's actions: Decision Tree
 - To study imaging styles: CNN(analyze images themselves), PCA, SVM(For classification)
 - To sum up and make final decision: Decision Tree

Schedule and Milestones:

- 1. User Interface Implementation:
 - a. 2 weeks: 8.31 9.11 (Firm Deadline: 9.13)
- 2. Traditional Functions:
 - a. 4 weeks: 9.14 10.9 (Firm Deadline: 10.11)
- 3. Advanced Features:
 - a. 6 weeks: 10.12 11.20 (Firm Deadline: 11.22)
- 4. Debug & Wrap-up:
 - a. 2 weeks: 11.23 12.4