**PRODUCT REQUIREMENT DOCUMENT (PRD)**

Project name: Beautify

Version: PRD 0.1

Author: Group 3

Date accepted: 23 March 2020

Launch date: 2 June 2020

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## PURPOSE

Beautify helps to customize personal styles by enhancing the quality of the image leaving the users with various features.

## DETAILED DESCRIPTION OF THE PRODUCT

Beautify helps to customize personal styles by enhancing the quality of the image leaving the users with various features. It detects the face and eyes from an image using OpenCV and Pillow to manipulate it. **Pillow** is a third-party Python module for interacting with image files. The module has several functions that makes it easy to crop, resize, and edit the content of an image. With this power of image modification the same way you would with software such as Microsoft Paint or Adobe Photoshop, Python can automatically edit hundreds or thousands of images with ease.

# Use Cases

**RUN THE PROGRAM**

**||**

**LOAD THE IMAGE**

**||**

**SELECT THE FEATURES**

**||**

**APPLY THE DESIRED STYLING**

**||**

**COMPARE THE ORIGINAL**

**AND MODIFIED IMAGE**

**||**

**SAVE THE OUTPUT**

## 

## Consumer Experience

The End User can have things at their fingertips.One Click change, they can share their images on social media from the app which will in turn help marketing the product.

## User Stories

### Susan

Susan is a makeup artist and she wants to make sure which makeup suits her models so she can do a pre check before the big ramp day and make sure that her models look beautiful. She can play around with the various features provided in Beautify.

### Aish

Aish is a teenage girl who likes to keep uploading her pictures on social media. She uses beautify to make changes to her image by uploading it on the app. She can even change the background image or remove some objects from the image

# Features

### 

* **Basic make-up** : Adds some basic makeup touch on the face hence beautifying the user's look. It will also remove the blemishes and any other marks leaving the skin smooth and bright
* **Landmark** detection on Face.
* **Red eye removal:** It provides object removal from images allowing the user to remove unwanted objects.

## Frontend

|  |  |  |  |
| --- | --- | --- | --- |
| Feature | Current Status | Phase | Description |
| Red eye removal | completed | Phase 1 | To Allow users to make some basic enhancements to their images |
| Blemish Removal | completed | Phase 1 | Remove blemishes from face on click |
| moustache | completed | Phase 1 | Add moustache on the face |
| Glares | completed | Phase 1 | Add Spectacles or sunglasses on the eyes |
| Lipstick | completed | Phase 1 | Change the color of lipstick or add lipstick. |
|  |  |  |  |
|  |  |  |  |

## Phases of Development

|  |  |
| --- | --- |
| Phase | Tasks |
| Phase 1 | * Wireframes for available features * Approval of the design. |
| Phase 2 | * Development of the features discussed |
|  |  |