

# 17637 Final Project Proposal: ImageNation

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## What you plan to build

Nowadays people pay increased attention to their photos, especially those uploaded to social media. It is a great hassle to edit a photo locally, save it, and upload it to the Internet. While we are here to make changes. Our design will help users to tune and feature their photos on social networks at no time.

ImageNation is a web-based photo editing application. It will have the following features:

1. Generate and apply random photo filters
2. Tune selected image specs
3. Store the works on the cloud
4. Share them with the community (if time permits)

We choose to provide random filters as well as fine tunings in an effort to target all kinds of users, either creative or professional. All the works are stored in an online database, such that users can access them wherever there is an Internet connection. These three are the core functionalities of our application, and if time is permitted, we might include online sharing feature that enables users to upload their creations and to browse others' works for inspirations.

The web application will have the following pages:

1. Home page: to select which task user wants to perform (apply filters, tune images, share own works on social media, browse others works)
2. Task page #1-#4: to perform the above tasks

We minimize the number of pages while stacking diverse features to them, since we aim to deliver an easy-to-use yet powerful application.

## **What technologies you will use**

We plan to use Django to build the web application infrastructure as well as interaction with the database. And we want to jQuery to handle any dynamic content in the application (live image tuning, community feeds update). Besides, we intend to deploy Semantic UI, a user interface library to beautify our web app. We also plan to insert some decorative or functional graphics to the application using WebGL (for example, dynamically displaying user's works collection).

## **Why is it interesting and cool**

With our website, people can turn boring pictures into interesting and cool pictures immediately without time-consuming photoshop. We generate random unpredictable filters that can add unique design elements to the pictures. Most importantly, it is easy to use and efficient, and everything is self-generated.