

# PHOTO EDITING - Technical Design

CSE 611 – MS Project Development

Professor – Jinjun Xiong



# TEAM MEMBERS

Pavana Lakshmi Venugopal

Saad Ahmed

Taraka Rohit Adusumilli

Ayesha Humaera



# Tech Stack

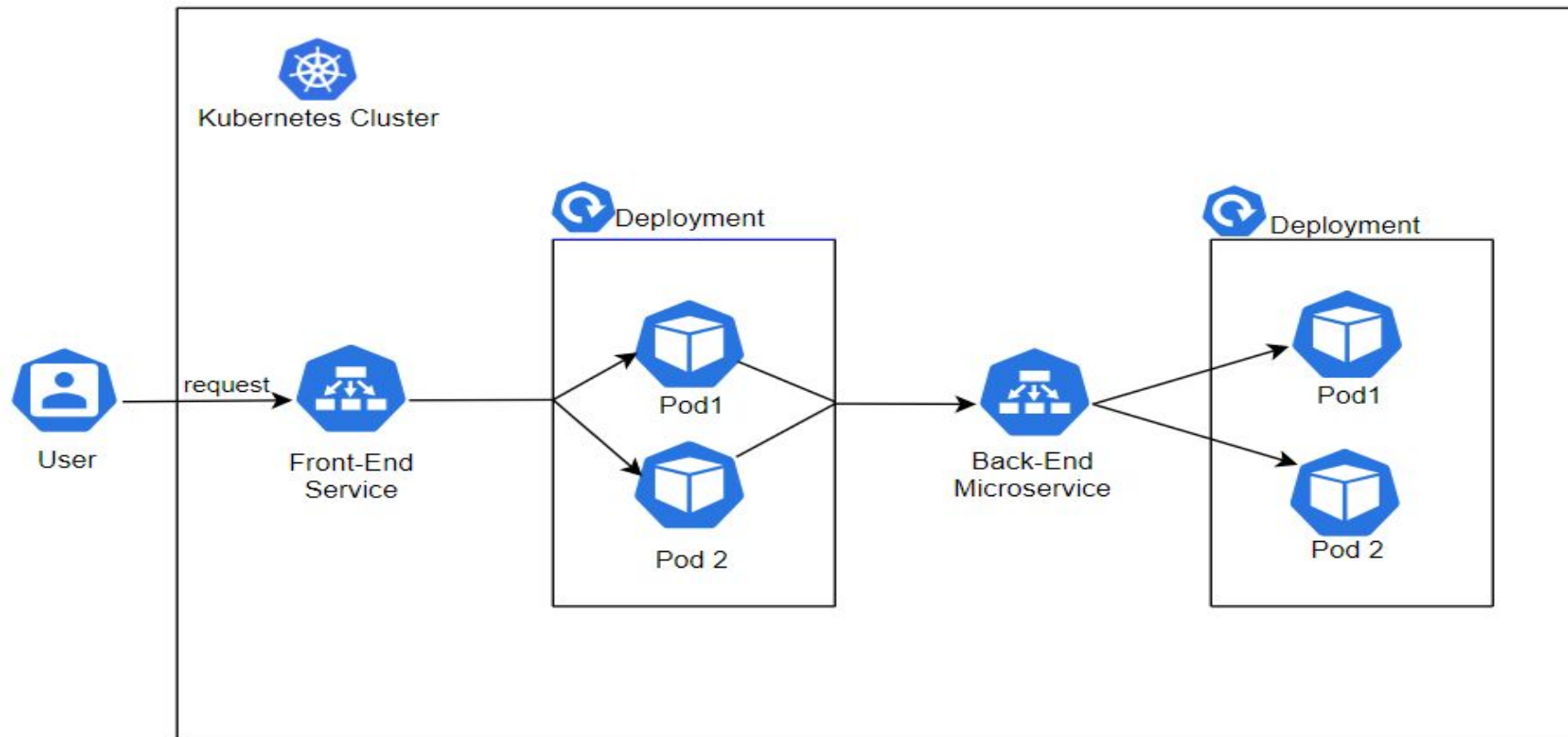
Front End:

Stack	Functionality
React Js	Create UI Interface
HTML & CSS	Build UI framework and Styling
JavaScript	Dynamic content update

Back End:

Stack	Functionality
Python	Develop backend
Django REST API	Create and manage REST APIs

# Deployment



# Deployment Structure

1. Backend Deployment: contains Django application, which serves as the backend of the application
2. Frontend Deployment: contains React application. It's responsible for rendering the user interface, handling user interactions, and making API requests to the backend.

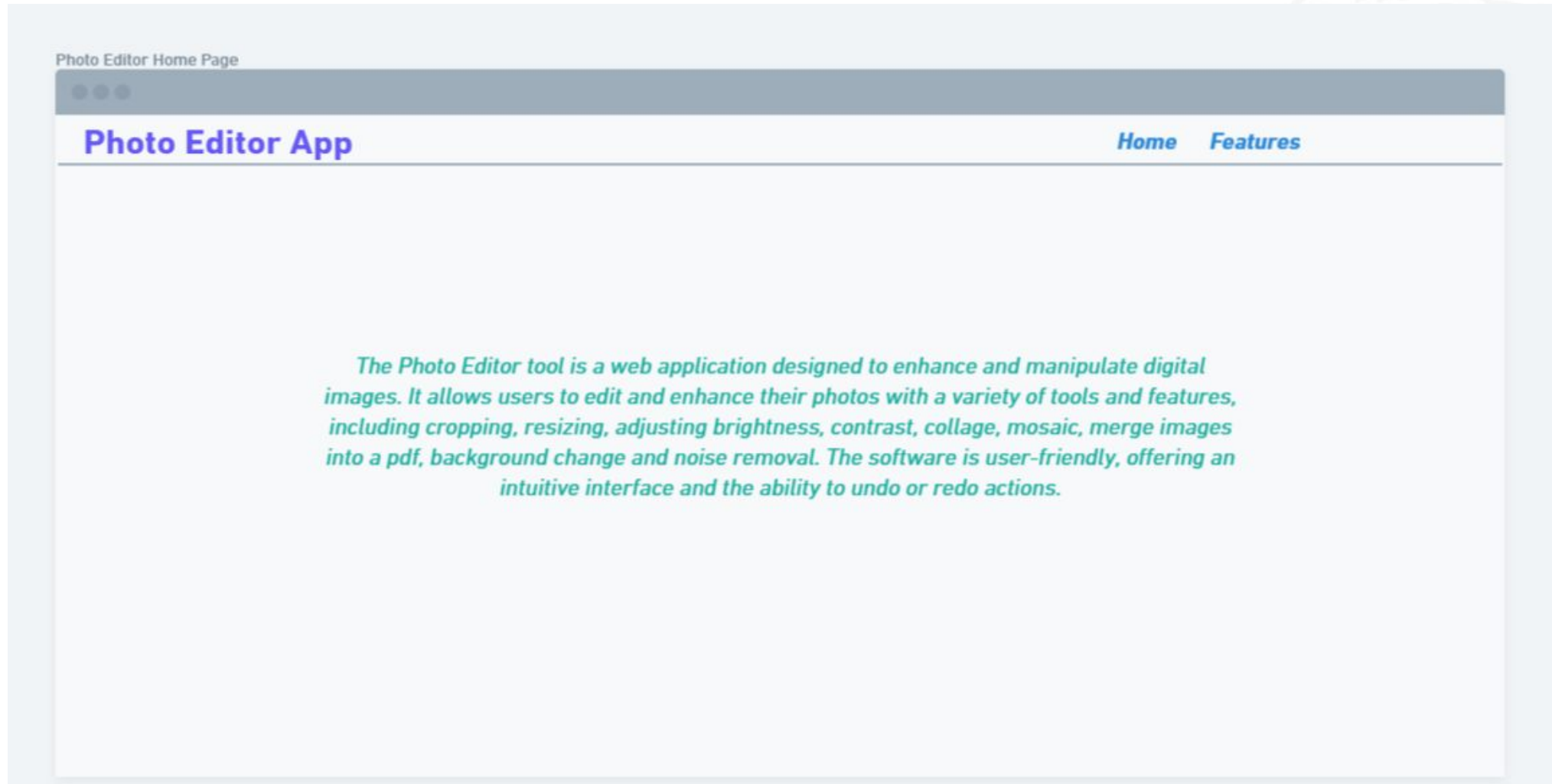
## Advantages

Scalability- scale backend/frontend based on requirement

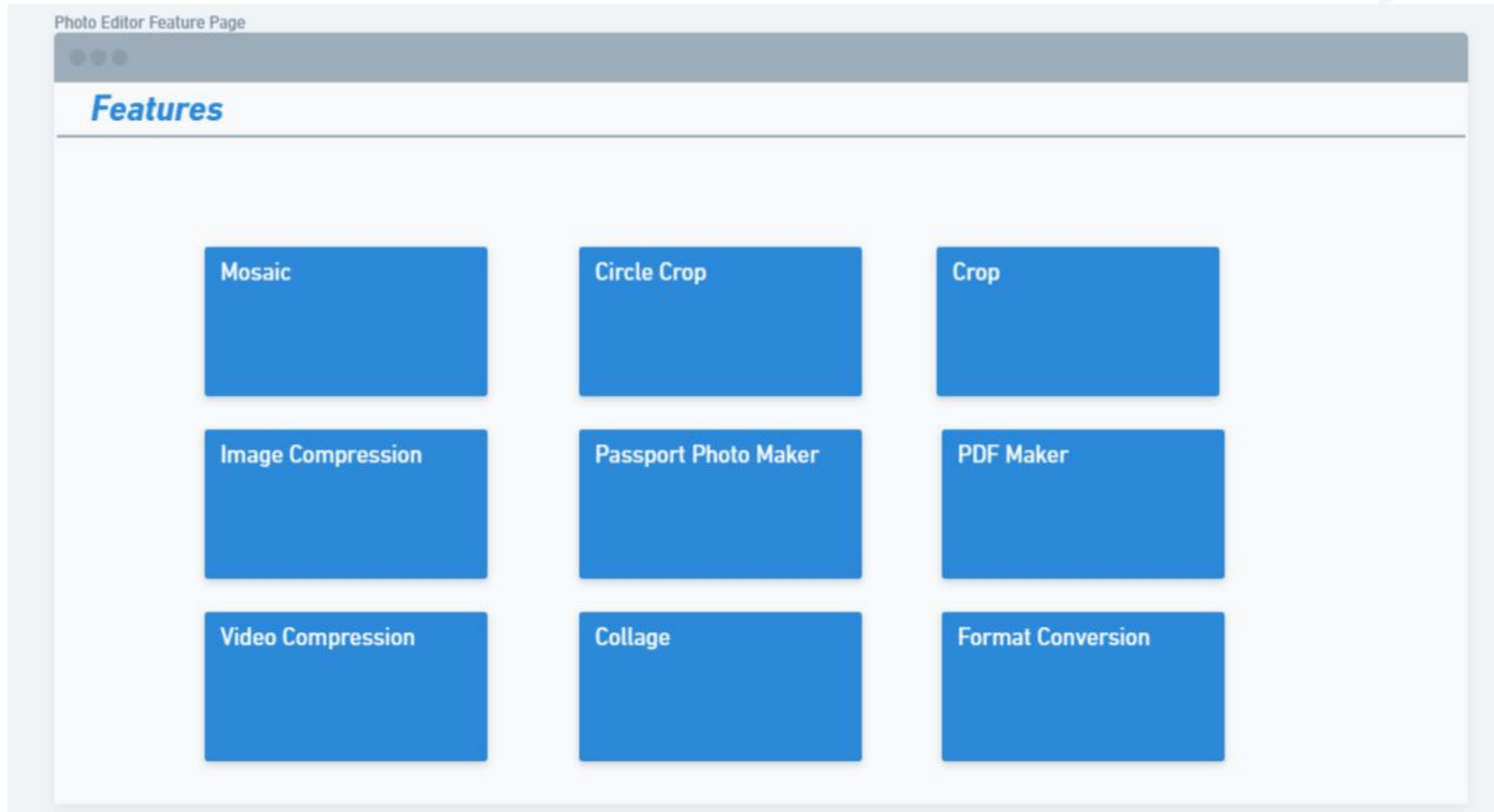
Isolation -Easier to manage and update components independently



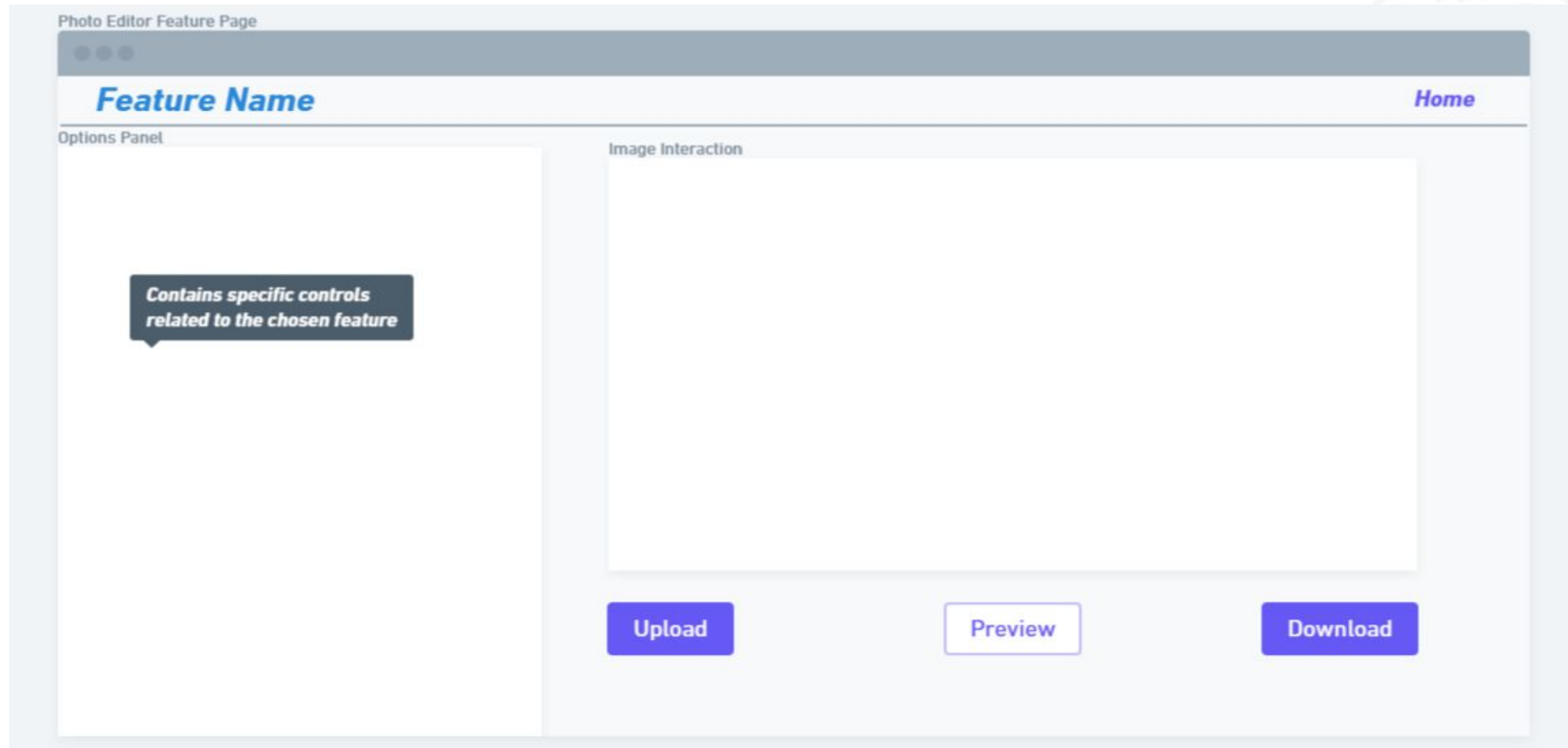
# Wireframe Home Page



# Wireframe Features



# Wireframe Feature Screen





# Wireframe Review & Direction

## Wireframe Overview

- Presents a skeletal visualization of our User Interface (UI).
- Previously shown wireframes showcase the layout for both the home page and feature pages of our Photo Editor.

## Main Page Highlights

### a. Feature Cards

- Multiple cards detailing each feature.
- Each card is accompanied by a concise explanation of its functionality.

### b. Navigation & Flow

- Clicking on any feature card leads to its respective feature page.
- Intuitive layout ensures easy user navigation.

# Wireframe Review & Direction

## Feature Page Layout

### a. Options Panel

- Positioned to the left.
- Contains specific controls related to the chosen feature.

### b. Image Interaction

- Located to the right.
- Allows users to upload, preview the edited image, and download it seamlessly.

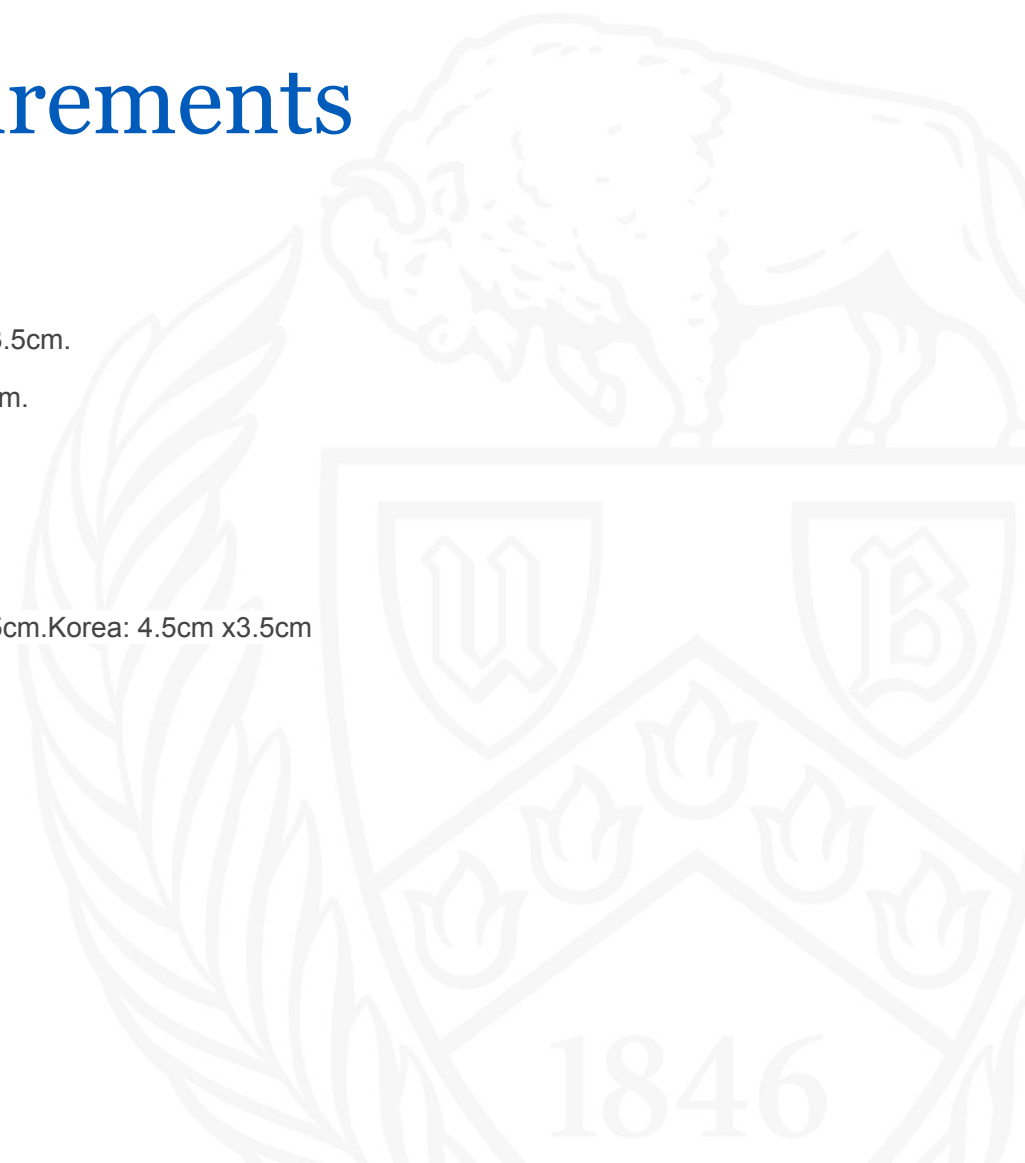
## Direction Forward

- Upholding the existing UI design due to its proven effectiveness.
- Prioritizing User Experience (UX) enhancements to ensure a smoother and more intuitive journey for our users.

# Sample Passport photo size requirements

The basic passport photograph requirements for some countries are as follows:

- The United States: 2" x 2"
- Canada: 5cm x 7cm.
- Mexico: 2" x 2".
- United Kingdom: 4.5cm x 3.5cm.
- Germany: 4.5cm x 3.5cm.
- France: 4.5cm x 3.5cm.
- Italy: 4.5cm x 3.5cm
- Spain: 4cm x 3cm
- Russia: 4.5cm x 3.5cm.
- Turkey: 4.5cm x 3.5cm
- Netherlands: 4.5cm x 3.5cm.
- Australia: 4.5cm x 3.5cm.
- China: 4.8cm x 4.3cm
- Japan: 4.5cm x 3.5cm
- India: 3.5cm x 3.5cm
- Singapore: 4.5cm x 3.5cm. Korea: 4.5cm x 3.5cm
- Brazil: 7cm x 5cm.



# Expanding Passport Photo Feature Support

Considering New Countries::

- South Africa
- Argentina
- Thailand
- New Zealand
- UAE
- Malaysia
- Indonesia
- Vietnam
- Chile
- Saudi Arabia

**Relevance:** Expanding support to these countries enhances our application's reach, catering to users from frequent travel destinations.

**Accuracy:** Passport photo requirements can vary even within a country based on visa or application type.

**User Caution:** Always emphasize users to refer to official guidelines. Consider providing links or guiding them to official sources.

**Updates:** Consider regular updates as countries' requirements can change, ensuring our tool's continued reliability.

# Revised Project Features

## Feedback & Iteration:

- Based on our discussion last week, we're focusing on streamlined, essential features rather than an extensive suite.

## Enhancements :

- Mosaic Feature: Needs to be worked for updations and proper functioning.

## Our Vision:

- Delivering a user-friendly application that fulfills the most common editing needs without overwhelming the user with a plethora of features like other editing tools.

# New Functionalities (Approved)

## Multiple Photo Sizes:

- Allow users to edit photos for different document sizes beyond passports, like visas, driver's licenses, and ID cards, with templates and guidelines for each.
- This feature caters to a wider audience, including travelers, students, and individuals who need various types of document photos.

## Image Compression:

- Efficiently reduce file sizes while maintaining image quality.

## Video Compression

- Optimized to retain resolution while reducing space.

## Circle Crop:

- Creates a unique and eye-catching visual effect that can make an image stand out.
- Automatically eliminates clutter at corners.



# Sample Driver's license photo size requirements

The driver's license photograph requirements for some countries are as follows:

- United States: 51mm x 51mm
- United Kingdom: 35mm x 45mm
- Canada: 35mm x 45mm
- Australia: 35mm x 45mm
- India: 35mm x 35mm
- Germany: 35mm x 45mm
- Japan: 25mm x 30mm
- France: 35mm x 45mm
- Italy: 35mm x 40mm
- Spain: 30mm x 40mm
- Brazil: 30mm x 40mm
- China: 33mm x 48mm
- South Africa: 35mm x 45mm
- Russia: 35mm x 45mm
- Mexico: 25mm x 32mm



Thank you

