Pastyle

Life in style

Artistic Stylizer Platform

CMPT 475N-200

Professor Pablo Rivas

Meet the Team

- Nick Klacik – CS

- Brandon Litwin – CS

- Ian Sniffen – CS

- Nicole Padrazo – IT

- Kevin Kleinschmidt -IS

Our Application

- Web platform to serve users requesting to process a stylized picture
- Machine learning API that performs image style transfer
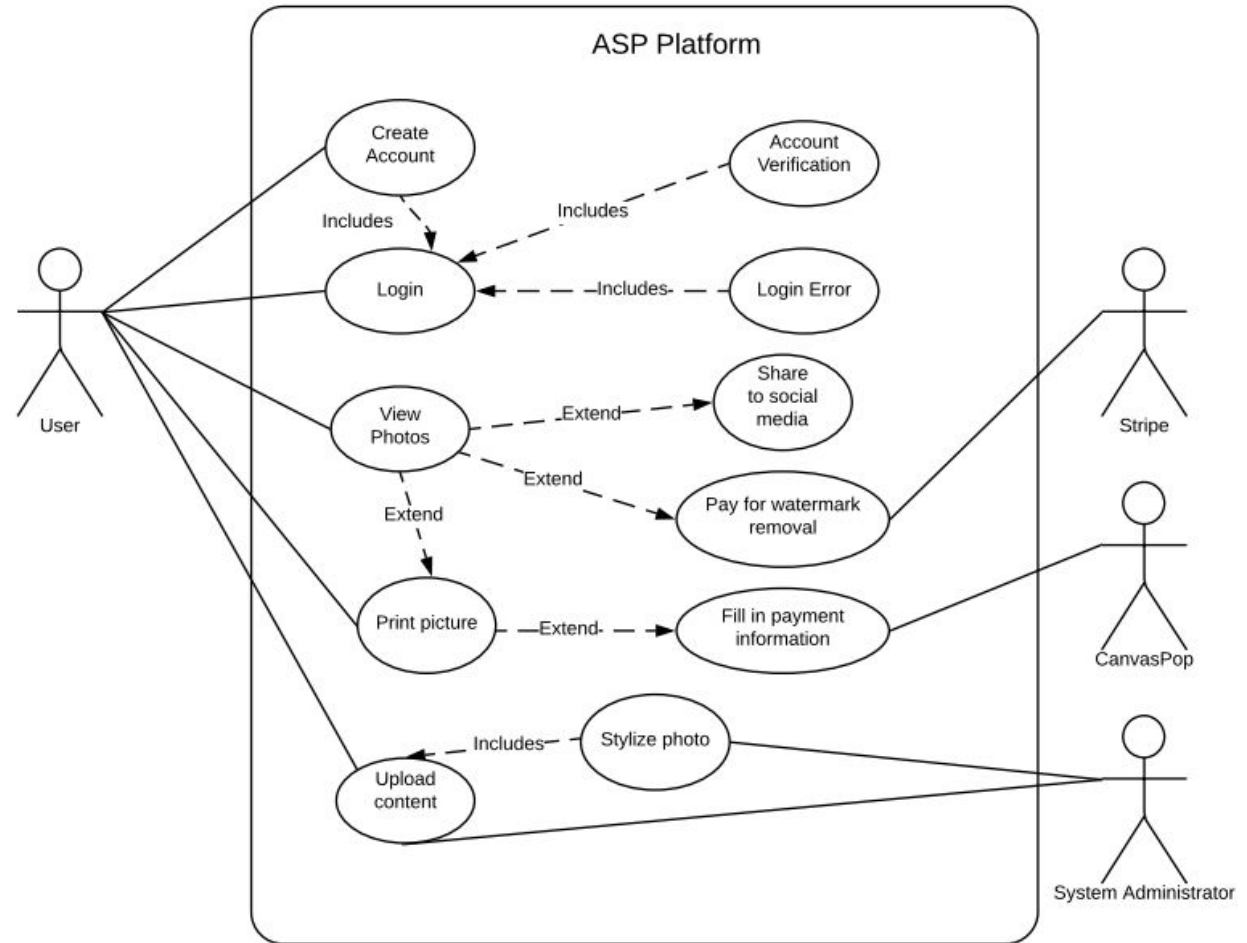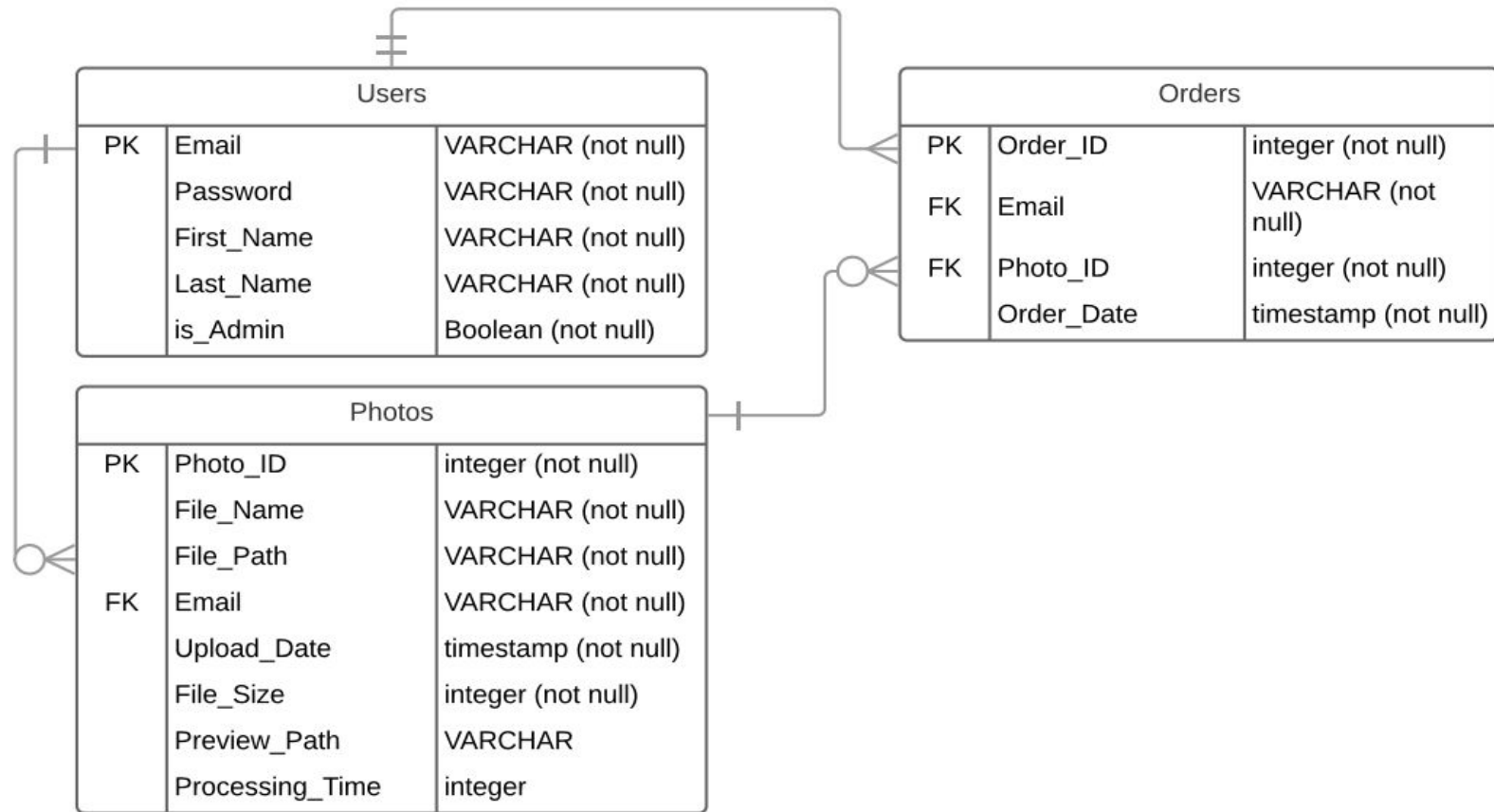- Data store for user credentials and photos

Features

- Create Account

- Upload and style image

- View previous uploads

- Watermark

- CanvasPop ordering

- Social media sharing

Database Design

Users		
PK	Email	VARCHAR (not null)
	Password	VARCHAR (not null)
	First_Name	VARCHAR (not null)
	Last_Name	VARCHAR (not null)
	is_Admin	Boolean (not null)

Orders		
PK	Order_ID	integer (not null)
FK	Email	VARCHAR (not null)
FK	Photo_ID	integer (not null)
	Order_Date	timestamp (not null)

Photos		
PK	Photo_ID	integer (not null)
	File_Name	VARCHAR (not null)
	File_Path	VARCHAR (not null)
FK	Email	VARCHAR (not null)
	Upload_Date	timestamp (not null)
	File_Size	integer (not null)
	Preview_Path	VARCHAR
	Processing_Time	integer

Fast Style Transfer in Tensorflow

- Machine learning API developed by Logan Engstrom

- Uses Tensorflow for API training

- We provide six default styles to users

IT Infrastructure

- Ubuntu 18.04 server

- Apache Web Server

- Postgres DB

- PHP

- Python

- LAPP

Image Watermarking

- All images uploaded are watermarked

- Watermarks can be removed with purchase

- Completed with PHP functions

CanvasPop

- Image printing service

- Uses a pop-up store

- All payment and processing handled by CanvasPop

Stripe

- Payment processing service
  - $0.50 per
- Used for watermark removal payment

Social Media Sharing

- Users can share to their Facebook accounts

- Implemented via Facebook SDK for JavaScript

- Sharing done on view page

- Shares selected image

System Logs

- Can be viewed by system administrators

- Shows the following:
  - Images uploaded
  - Processing time
  - Data uploaded (MB)

Thursday, 12/06/18

Images Uploaded: 15
Total Processing Time (Seconds): 35.9682476520543
Average Processing Time (Seconds): 11.9894158840181000
Total File Size Uploaded (MB): 4.131669

	12a	1a	2a	3a	4a	5a	6a	7a	8a	9a	10a	11a	12p	1p	2p	3p	4p	5p	6p	7p	8p	9p	10p	11p
	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	5	0	1	0

Project Timeline

- 9/26: Design complete

- 10/17: Basic UI, DB, and CanvasPop completed (early demo)

- 10/31: New Style API and Stripe implemented

- 11/7: Project prototype complete (mature demo)

- 11/14: Watermarking implemented

- 11/16: First CanvasPop order made

- 12/12: Final deliverable, presentation

Thank You!

Questions?

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Demo

https://sp.marist.ai