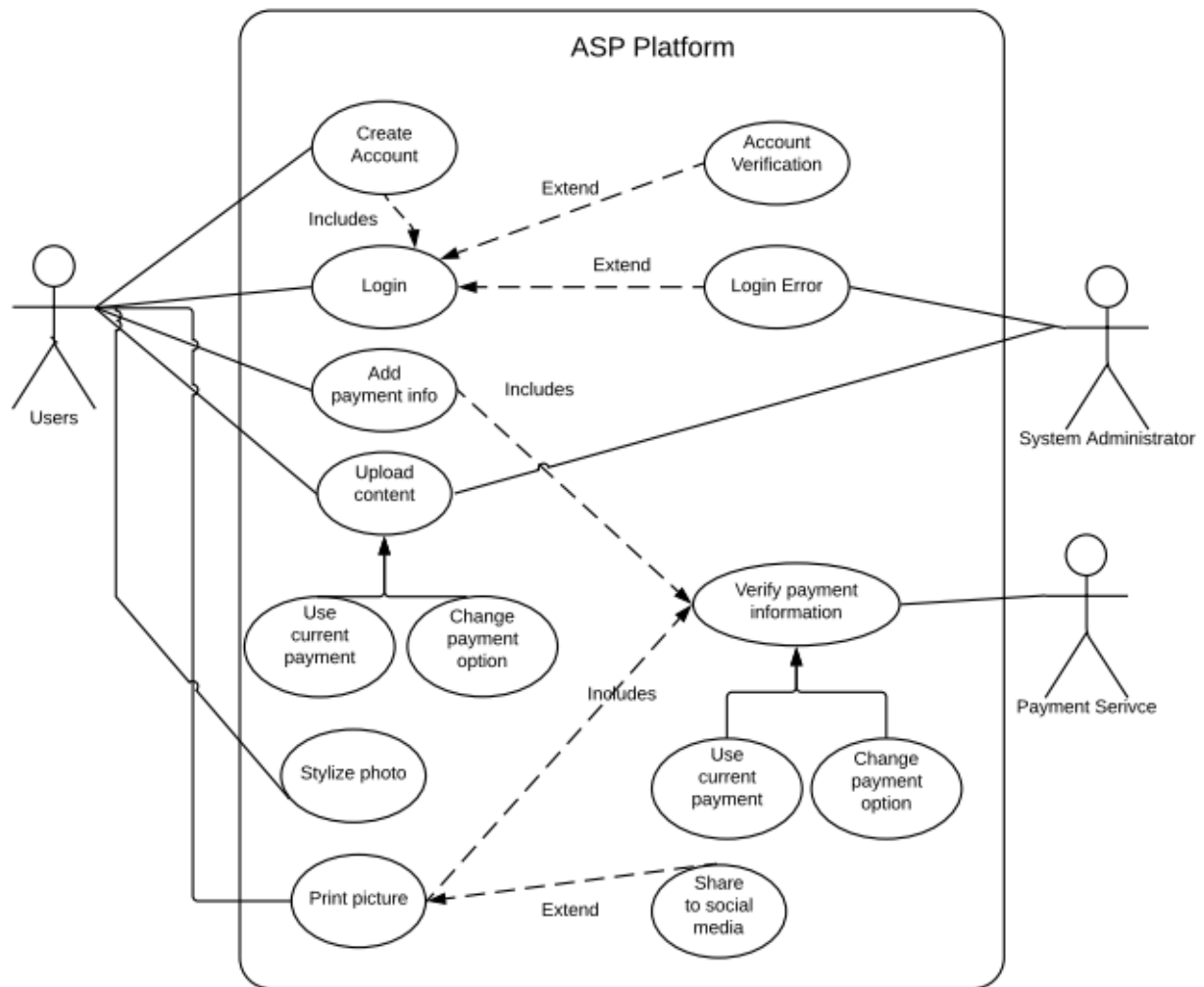


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9/12/2018

Artistic Stylizer Platform Project:
UML Use Case Diagram and User Requirements Documentation

The artistic stylizer platform that we will be developing is an application that will allow users to create a stylized photo of their choice. First, users will begin by creating an account for our platform. Users will create a username and password of their choice that they will use for authentication on login. Account credentials can be changed by the user again at any point. Once the user is logged into their account, they will be prompted to enter a payment option. A payment option must be added in order to complete the purchase of a printed image. After they payment information is set up, the user will have the option of uploading content that they would like to have stylized or a style photo. These images must be of high quality or they will receive an error and the image will not be uploaded. Images do not have to be stylized immediately upon upload, but they will be deleted if they have not been paid for in the 24 hours following the image upload. Images that have been paid for will remain on the account until the user deletes the image. After the user has uploaded a content image, they have the ability to stylize their photo using a style photo that they uploaded or one of the default styles given to all users. The user will be able to view a scaled down preview of their stylized image before deciding whether to purchase and print the image. If the user chooses to purchase the image, they will be asked to confirm their payment option and then have the ability to share the image to a social media platform. After the image has been printed and paid for, the user will have the ability to upload and stylize more images. The other type of users in the system will be system administrators, who will have access to usage data and logs. Administrators will be able to see how many people are engaging with the application, the number of uploads, and the number of purchases.

UML Use Case Diagram:

Use Case Name: Create an Account |ID: 1 |Importance Level: High

Primary Actor: User |Use Case Type: Overview,
essential

Stakeholders and Interests:

User – selects the option to create a new user account

System Administrator – receives logs of created user accounts

Brief Description: The user will choose to create a user account, making a username and password for login

Trigger: Selecting the “Create Account” option on the homepage

Relationships:

Association

Include: User login follows creating an account

Extend:

Generalization:

Normal Flow of Events:

1. Select “Create an Account”
 2. Enter desired credentials
 3. Account created
-

Alternate/Exceptional Flows:

- 1a. User credentials do not meet the application requirements, user credentials are rejected

Use Case Name: Login | ID: 2 | Importance Level: High

Primary Actor: User | Use Case Type: Overview,
essential

Stakeholders and Interests:

User – selects the option to login into their user account
System Administrator --

Brief Description: The user will enter their username and password to login to their user account

Trigger: Selecting the “Login” option on the homepage

Relationships:

Association

Include:

Extend: Account verification and login failure

Generalization:

Normal Flow of Events:

1. Select “Login”
 2. Enter the username and password
 3. Verify authentication
 4. Login successfully
-

Alternate/Exceptional Flows:

- 1a. Authentication fails, login fails

Use Case Name: Add payment info |ID: 3 |Importance Level: High

Primary Actor: User |Use Case Type: Overview,
essential

Stakeholders and Interests:

User – adds payment information

Payment Service – verifies payment information and completes payment processing

Brief Description: The user will be prompted to enter a payment option for purchases

Trigger: Selecting the “Login” option on the homepage

Relationships:

Association

Include: Verify payment option

Extend:

Generalization:

Normal Flow of Events:

1. Enter payment information
 2. Payment information verified
 3. Payment option added to the user account
-

Alternate/Exceptional Flows:

- 1a. Payment info not found, adding payment option fails

Use Case Name: Upload content | ID: 4 | Importance Level: High

Primary Actor: User | Use Case Type: Overview, essential

Stakeholders and Interests:

User – selects the photo to upload to the application

System Administrator – receives logs of photo upload information

Brief Description: The user uploads a content or style photo onto their user account

Trigger: Selecting the “Login” option on the homepage

Relationships:

Association

Include:

Extend:

Generalization:

Normal Flow of Events:

1. User selects “Upload photo”
 2. Select the photo type
 - a. Select content photo
 - b. Select artistic style photo
 3. User chooses photo to upload
 4. Photo is uploaded
-

Alternate/Exceptional Flows:

3a. File type is not accepted, upload fails

3b. File size is not accepted, upload fails

Use Case Name: Stylize photo |ID: 5 |Importance Level: High

Primary Actor: User |Use Case Type: Overview, essential

Stakeholders and Interests:

User – chooses a photo to have stylized

Brief Description: The user selects a content photo to have stylized using an artistic style image

Trigger: Selecting the “Stylize My Picture” option

Relationships:

Association

Include:

Extend:

Generalization:

Normal Flow of Events:

1. User selects “Stylize My Picture”
 2. Select a photo to have stylized
 3. Select a style photo to use
 4. Content photo is stylized
-

Alternate/Exceptional Flows:

Use Case Name: Print picture	ID: 6	Importance
Level: High		

Primary Actor: User	Use Case Type: Overview,
essential	

Stakeholders and Interests:

User – chooses a photo to have printed or shared to social media

Payment Service – Verifies and completes payment processing

Brief Description: The user prints a photo they have had stylized

Trigger: Selecting the “Print My Picture” option

Relationships:

Association

Include:

Extend:

Generalization:

Normal Flow of Events:

5. User selects “Print My Picture”
6. Select picture to print
7. Select payment option
 - a. Verify payment information
 - b. Payment processed
8. Picture is printed

Alternate/Exceptional Flows:

- 3c. Payment fails
- 4a. User shares picture to social media