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1. Introduction

1.1 Purpose of Document

This document outlines the functional requirements for the social media website for photographers called 'Fotoflask.' The purpose of this document is to provide a clear and concise understanding of the requirements and objectives of the project and to serve as a basis for design, development, and testing.

1.2 Project Summary

Project Name: FotoFlask

Members:

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Fotoflask is a social media platform that allows photographers to showcase their photos and connect with other photographers. The website will provide a secure and user-friendly interface for uploading and managing pictures, viewing and commenting on other photographers' work, and receiving feedback from the community.

1.3 Background

The photography industry has seen significant growth in recent years, with an increasing number of photographers seeking a platform to showcase their work and connect with other photographers. There is a need for a social media platform explicitly tailored to photographers' needs, providing them with a place to share their photos, receive feedback, and connect with other photographers.

Problems with the current approaches:

- **Lack of a dedicated platform for photographers:** Photographers are using various social media platforms to share their work, but these platforms are not designed specifically for photography and do not offer the right tools and features to support their needs. Fotoflask provides a dedicated space for photographers to showcase their work and connect with others in their community.
- **Limited visibility and exposure:** On current social media platforms, photographers may have difficulty getting their work seen and recognized, as their photos can easily get lost in a sea of content. Fotoflask provides a platform where photographers can be discovered and their work can be properly appreciated and shared.
- **Inadequate feedback and interaction:** On current social media platforms, feedback, and interaction is often limited and not tailored to the needs of photographers. Fotoflask provides a platform where photographers can receive constructive feedback from other photographers and photography enthusiasts and interact with others in a meaningful way.
- **Insufficient tools for managing and showcasing photos:** Current social media platforms do not provide photographers with the right tools to manage and showcase their work effectively. Fotoflask provides a platform where photographers can manage and showcase their photos in a professional and organized manner, making it easier for them to share and promote their work.

1.4 Project Scope

The scope of the project includes the design, development, and testing of a social media platform for photographers that provides the following functionalities:

- User authentication (login and sign-up)
- Profile management
- Photo management (upload, caption, tag, and organize into albums)
- Follow other accounts (under development)
- Commenting on photos (under development)
- Liking photos
- Sharing photos
- Download on request to respective user (under development)
- Search and discovery of photographers and photos (under development)
- Notification system for updates and new comments (under development)
- Compliance with privacy laws and regulations

2. Functional Objectives

2.1 High-Priority:

- **User Authentication:** The website should allow users to create an account or log in using existing credentials.
- **Photo Upload:** Users should be able to upload photos to their profile, and they should be able to categorize or label them.
- **User Profile:** Users should be able to view and edit their profile information, including profile pictures, descriptions, and social media links.
- **Photo Viewing:** Users should be able to view photos uploaded by other users, including the photo title, description, and location.

2.2 Medium Priority

- **Commenting System:** Users should be able to leave comments on photos, and the owner of the photo should be notified of new comments.
- **Like and Share:** Users should be able to like and share photos with their friends and followers.
- **User Follow** (development): Users should be able to follow other users, and their photos should be displayed in a dedicated feed.
- **User Notifications** (development): The website should notify users of new comments, likes, shares, and followers.

2.3 Low Priority

- **User Gallery:** Users should be able to create galleries to showcase their photos, and they should be able to choose the order of photos.
- **User Analytics:** Users should be able to view analytics data, such as the number of views, likes, and shares, for each of their photos.

3 Non-Functional Objectives

3.1 High-Priority:

- **Security:** The website should protect user data, including login credentials and photos, from unauthorized access and theft.
- **Performance:** The website should load quickly and be responsive to user interactions, regardless of the user's device or network conditions.
- **Scalability:** The website should be able to handle increasing traffic and user growth, and it should be able to add new features and functionalities over time.
- **Usability:** The website should be easy to use, have a simple and intuitive user interface, and provide clear feedback and error messages.

3.2 Medium Priority

- **Mobile Compatibility:** The website should be compatible with mobile devices, including smartphones and tablets, and it should provide a mobile-optimized user interface.
- **Backup and Recovery:** The website should provide robust backup and recovery mechanisms to ensure that user data and photos are not lost in case of hardware failure or data loss.

3.3 Low Priority

- **Customization:** The website should allow users to customize their profiles and galleries and provide a set of themes and templates to choose from.

4. The Context Model

4.1 Goal Statement

The goal of the **Fotoflask** social media website is to create a centralized platform where photographers can showcase their photos, connect with other photographers, and engage with their audience. The website will provide users with a user-friendly interface, robust security, and reliable performance, enabling them to share their work with the world.

and receive feedback, likes, comments, and shares. The website will also offer advanced features, such as mobile compatibility, backup and recovery, and social media integration, to enhance the user experience and meet the needs of a growing community of photographers.

5. The Use Case Model

5.1 Use Case Descriptions (for selected cases)

Login

Use Case Name:	Login
Summary	The user logs in to their account
Basic Flow	1. User inputs email and password. 2. System verifies the information and logs the user in. 3. User is taken to their profile page.
Alternative Flow	Invalid email or password <ul style="list-style-type: none">○ System displays an error message.○ User can try logging in again.
Pre-Condition	The user has an existing account.
Post-Condition	The user is logged in to their account.
Business Rule	The user must have an account to log in.

Signup

Use Case Name:	Signup
Summary	The user creates a new account
Basic Flow	1. User inputs their personal information and creates a password. 2. System verifies the information and creates a new account. 3. User is taken to their profile page.
Alternative Flow	N/A

Pre-Condition	N/A
Post-Condition	The user has uploaded a photo to their account.
Business Rule	Users must own the rights to the photo being uploaded.

Upload Photo

Use Case Name:	Upload Photo
Summary	The user uploads a photo to their account
Basic Flow	<ol style="list-style-type: none"> 1. User selects the photo they want to upload. 2. System processes the photo and adds it to their account. 3. User is taken to their profile page.
Alternative Flow	N/A
Pre-Condition	The user has a photo to upload.
Post-Condition	The user has uploaded a photo to their account.
Business Rule	Users must own the rights to the photo being uploaded.

View Photos

Use Case Name:	View Photos
Summary	The user views all photos
Basic Flow	<ol style="list-style-type: none"> 1. User navigates to the photos section. 2. System displays all photos. 3. Users can like, comment or share a photo.
Alternative Flow	N/A
Pre-Condition	N/A
Post-Condition	The user has viewed photos.
Business Rule	N/A

Like Photos

Use Case Name:	Like Photos
Summary	The user likes a photo
Basic Flow	1. User clicks on the like button. 2. System updates the like count.
Alternative Flow	N/A
Pre-Condition	The user is viewing a photo.
Post-Condition	The user has liked a photo.
Business Rule	Users can only like a photo once.

Comment on Photos

Use Case Name:	Comment on Photos
Summary	The user comments on a photo
Basic Flow	1. User inputs a comment. 2. System adds the comment to the photo.
Alternative Flow	N/A
Pre-Condition	The user is viewing a photo.
Post-Condition	The user has commented on a photo.
Business Rule	N/A

Share Photos

Use Case Name:	Share Photos
Summary	The user shares a photo
Basic Flow	1. User selects a platform to share the photo. 2. System opens the platform and shares the photo.
Alternative Flow	User cancels sharing: System returns to the photo.

Pre-Condition	The user is viewing a photo.
Post-Condition	The user has shared a photo.
Business Rule	N/A

Edit Profile

Use Case Name:	Edit Profile
Summary	The user edits their personal information and profile picture
Basic Flow	<ol style="list-style-type: none"> 1. The user navigates to their profile page. 2. User makes changes to their personal information or profile picture. 3. System updates the changes.
Alternative Flow	N/A
Pre-Condition	The user is logged in.
Post-Condition	User has edited their personal information and profile picture.
Business Rule	N/A

Delete Photo

Use Case Name:	Delete Photo
Summary	The user deletes a photo
Basic Flow	<ol style="list-style-type: none"> 1. User navigates to their profile page. 2. User selects the photo they want to delete. 3. System confirms the delete action and deletes the photo.
Alternative Flow	The user cancels the deletion
Pre-Condition	The user is logged in.
Post-Condition	Photo is deleted
Business Rule	N/A