Photo-Based Social Media Platform

Introduction:

1. Purpose:

This document outlines the user requirements and specifications as requested by our client. The social media application will be a platform for safe interaction, between users and potential future users, using photos and visual media. The system as described by the client will be a “safe outlet for people to take pictures of objects and animals in their area, share them on the platform, get feedback, and score points from others on the platform, and use GPS to mark where the object/animal was sighted so others can also try to find and photograph

It.”

1. Scope:

The platform will consist of multiple user interfaces dependent upon where the user will access the application through a browser or an application on their mobile phones.

The system will also consist of a database to store user information such as security details (in depth clarification under the requirements section). The system will also manage be responsible for ensuring only safe content will be viewed in the application.

1. General Capabilities:
2. Take pictures of objects/animals and mark the location of where the picture was taken via GPS for other users to see.
3. Posted pictures of objects/animals to be shared by users and viewed by all to provide feedback.
4. Scoring system on basis of how many interactions and what specific kind of interaction to each post.
5. User Requirements:

Function Requirements:

F-UR-1: The user must have an account to able to use the features of the application.

F-UR-1-1: The user must provide username and password sign in. (M)

F-UR-1-2: The username and password must be validated by a database before granting access. (M)

F-UR-1-3: Any new user must provide their email, set a password, set a unique username to create a new account. (M)

F-UR-1-4: A new database entry must be created for each new user. (M)

F-UR-1-5: A customizable profile must be created by the system to be customized by the user. (M)

F-UR-2: Users must be able to create “channels” to post pictures of specific objects/related topics.

F-UR-2-1: Users must be able to tag what the object of their image is before posting. (M)

F-UR-2-2: Photos posted in certain channels should be sorted by the user’s desire, i.e. relevancy, latest, highest scored etc. (S)

F-UR-3: The users must be able to interact with the uploaded content.

F-UR-3-1: The users should be able to react to content in multiple ways such as:

1. Comments for feedback
2. “Like” or “favourite” posts
3. Click on photo to see list of all tags
4. Click on icon to see GPS location of where photo was taken. (S)

F-UR-4: The user’s accounts and posts must have a point system:

F-UR-4-1: Number and type of interactions must affect the points of the user’s account and post. (M)

F-UR-4-2: The application should give users achievements and badges awarded for accumulating points. (S)

F-UR-4-2: The application could have themed events for more point rewarding opportunities. (C)

F-UR-4-3: The application would have weekly photo challenges to score more points. (W)

F-UR-4-4: Application would give a weekly and monthly leader board for each channel and within a channel, leaderboard for the specific channel which has members of that channel. (W)

F-UR-5: System must send notifications:

F-UR-5-1: System must send a notification to a user for any requests to join private channels or friend requests/” Photo buddies request.” (M)

F-UR-5-2: System must notify user of any interaction between said user’s post and other users. (M)

F-UR-5-3: System would notify user of upcoming themed events for point scoring opportunities. (W)

F-UR-5-4: System should notify user of any points scored. (S)

F-UR-5-5: System should notify user if their content is under scrutiny for being reported for malicious/inappropriate content. (S)

F-UR-6: System must provide facilities for channel moderators and creators:

F-UR-6-1: Channel moderators and creators must be able to report malicious/inappropriate content and photos where people are visible. (M)

F-UR-6-2: Channel moderators and creators should be able to remove users from channels due to repeated offences of channel rules created by said moderators and creators. (S)

F-UR-6-3: System must generate performance report for channel moderators and creators. (M)

F-UR-7: GPS tagging:

F-UR-7-1: The application must be able to use location services of the device to determine current location. (S)

F-UR-7-2: Each photo once posted must also contain the GPS location, if GPS enabled, of where photo was taken. (S)

F-UR-7-3: Users viewing posts must be able to see GPS location of where photo was taken. (S)

F-UR-7-4: Users must be given the option of enabling or disabling GPS feature for their own privacy. (S)

F-UR-8: Application’s camera feature must be able to apply stickers, filters, edit images and generate GIFs.

F-UR-9: User must be able to follow and filter content:

F-UR-9-1: Users must be able to follow users they want and join channels they want. (M)

F-UR-9-2: Users should be able to filter certain topics to be able to see only posts related to certain tags. (S)

F-UR-10: The application must provide content promotion and boosting facilities:

F-UR-10-1: Photographers and Collectors would be able to invest to promote their content across the application to users who are interested in topics related to their tags. (W)

F-UR-10-2: Photographers and Collectors should be able to monetize their profiles if they choose. (S)

F-UR-11: The application must have a human detection system to flag and remove posts which show humans. (S)

Non-Functional Requirements:

NF-UR-1: The system must allow users to report malicious/inappropriate content. (M)

NF-UR-2: The system could have a chat system for users to engage and talk to each other privately. (C)

NF-UR-3: Photographers and Collectors would be able to interact to buy/sell items/photos. (W)

NF-UR-4: The system must have secure safety features to ensure no data leaks. (M)

NF-UR-5: The system would have a user interface with high usability. (W)

NF-UR-6: The system could have an AI to implement the human detection system.

NF-UR-7: The application interface and overall look could be customizable by the user. i.e. colour scheme, font size, dark mode.

NF-UR-8: The application must be fully functional in all web browsers and mobile phone applications.

NF-UR-9: The application icons and flow must be intuitive. (M)