Digital Portfolio

Team # 38

Ahmed Darkazanli
Albert Ong
Anh Phan

Project Overview

(Anh Phan)

Digital Portfolio is a social networking application that allows users to share their daily lives through online image posts. When users login to Digital Portfolio, they will be able to view their previous posts on their own profile page as well as update their status, post pictures, and add captions and hashtags. Additionally, Digital Portfolio will allow users to connect with other users by searching for their profile name and viewing their posts. Digital Portfolio is designed to be a fun, casual platform that allows users to share their story with the world and view the stories of others.

The stakeholders of this project will include the members of the project team (Ahmed Darkazanli, Albert Ong, and Chloe Phan), project manager (Professor Mike Wu), and every user who loves to share their interests and activities and regularly follow their favorite people. The individuals who most enjoy interacting through social media will be the end-users that our application is targeted at. Therefore, our team must ensure that our software is functional, secure, and bug-free in order to provide the best user experience and maintain a positive image of the people working on the project.

System Environment

(Ahmed Darkazanli)

| Presentation Layer Tier 1 | Application Layer Tier 2 | Data Layer Tier 3 |
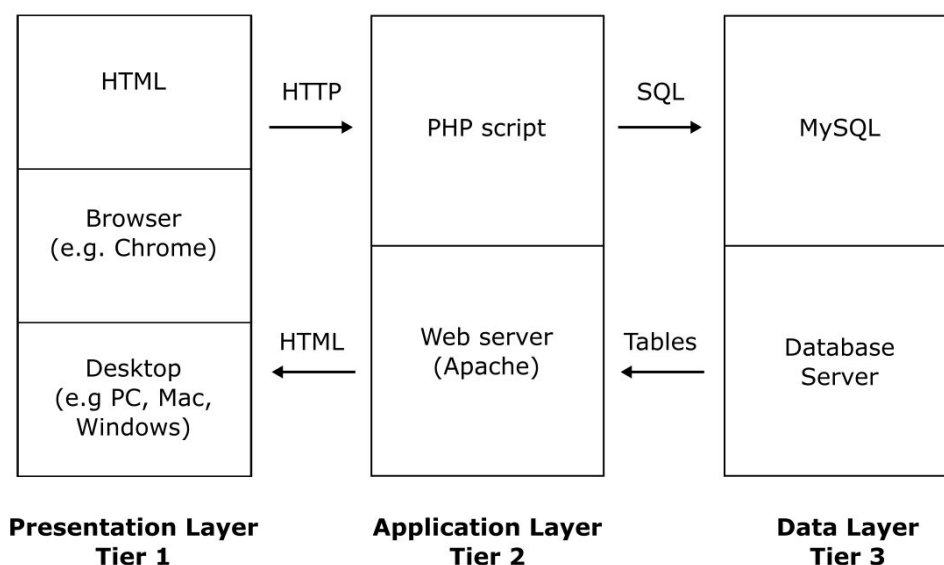
Functional Requirements

(Albert Ong)

Describe users and how users access your system:
- Our users can be anyone who enjoys posting photos of their life
- How users can access the system:
  - Users will need a PC such as Mac or Windows
  - Signup/Log in to account
    - Users who do not have an already existing account will need to create one

Describe each functionality/features, functional processes and I/O(s).
- View profile
  - Users will initially see their profile pic, name, username and a list of all their posts through the home page
- Edit profile
  - Users can upload a new profile picture and caption
- Create Posts
  - They will also be able to upload photos followed by a caption
- Delete Posts
  - Remove any posted content by simply clicking a delete button
- Edit Posts
  - Change the captions by clicking the edit button and typing a new one
- View other users posts
  - Users can view other users posts by searching for their username
- Tag others in posts
  - Users can tag other users in their posts
- Search users
  - Users can search for other users in the search bar
- Comment posts
  - Each posts will have a comment thread in which any user can add to
- Like posts
  - Each posts will have a 'like' button for users to press which increments the # of likes for that post

Non-functional Issues

(Ahmed Darkazanli)

Type of GUI and software tools to build the GUI:

- The type of GUI will consist of a standard HTML document with divs, buttons, and input fields that are assisted by CSS to style the document presentation.
- We will be using an IDE such as Microsoft Visual Studio Code to build the document

Security:

- SQL injection
  - We will filter data using mysql[i]_real_escape_string() to ensure that any dangerous characters are not passed to a SQL query in data.
  - We will also sanitize everything by filtering user data by context
- XSS
  - We will filter output to the browser through htmlentities()
- Session Fixation/Hijacking
  - Regenerate session IDs
  - Use SSL