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WD Mini Project
Picturesque - Web App

Abstract:

Picturesque is a tongue-in-cheek name for a social networking app made for sharing photos from a smartphone. Similar to Facebook or Twitter, everyone who creates a new account has a profile and a news feed. When you post a photo on Picturesque, it will be displayed on your profile. It was created to capture special moments and share it with all the other users that you choose.

The website runs its frontend developed using languages such as HTML5, CSS3. Bootstrap is used for framework & jQuery used for validation along with JavaScript. Backend development includes languages such as PHP, SQL & database used is MySQL. XAMPP setup is used for server & database connectivity.

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Introduction:

(a)Need:

A social, picture-sharing web app like Picturesque helps us share the happening things in our life with our friends and family. Through such an app, we can share our happy moments captured in the form of pictures and videos, with our loved ones, and also comment and express our appreciation towards others' pictures through likes and comments.

(b)Scope:

Picturesque includes a home page, where the user can see posts from all the people he/she follows, a search page to discover other users, a page to post a new photo, the ability to send, receive and accept or reject requests to follow or to be followed, a profile page to view your own, or others' pictures combined together under the person who has posted them. We have also included the ability to update the user's details such as their name, username, bio and profile pic.

(c)Problem Statement:

A photo-blog, with the ability to follow other users and share your pictures and videos only with the people who you permit. The photo blog contains the features to make a post containing an image file with a caption, which other users can like and comment on. It also contains a search feature to make discovering other users easier. Follow requests have been implemented to allow the user to have control over who they would like to share their media with, along with the option to unfollow anytime, as desired.

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Requirements

(a)Hardware:

1. Processor:

In order to work efficiently with RAM for more processing power, these processors are a must. These processors help users to smoothly browse through to the website reducing friction and ease of use.

2. RAM:

As the photo-blog web app handles a lot of data requests from people accessing the website, high processing capabilities are to be needed by the machine hosting the website. Hence, 4 GB RAM is the minimum requirement of the system for normal working condition.

3. Hard Disk:

As we run the project on local server using XAMPP, it takes at least a desktop or laptop with 500 GB disk space in order to store the entire web app, including the pictures, user information, comments, likes, etc.

(b)Software:

1. HTML

HTML5 is the latest evolution of the standard that defines HTML. The term represents two different concepts. It is a new version of the language, with new elements, attributes, and behaviors, and a larger set of technologies that allows the building of more diverse and powerful Web sites.

2. CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the look and formatting of a document written in a mark-up language. CSS3 is a latest standard of CSS earlier versions (CSS2).

3. JavaScript

JavaScript is a lightweight, interpreted programming language. It is designed for creating network-centric applications. It is complimentary to and integrated with Java. JavaScript is very easy to implement because it is integrated with HTML.

4. PHP

The PHP Hypertext Pre-processor (PHP) is a programming language that allows web developers to create dynamic content that interacts with databases. PHP is basically used for developing web based software applications.

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Methodology

- The **Home Page** displays posts from all the other users the current user follows. These posts are ordered by recently uploaded posts first. Infinite Scrolling has been implemented to take off load from querying and displaying 100s of posts at a time and provide users a better experience. The user can like the post by clicking the heart button or view the comments of the posts by clicking on the post. To visit the author's profile page, the user clicks on the username of the author.
- The **Profile Page** displays a user's information i.e. their Full Name, Username, Bio, Profile Picture. It also displays all the posts published by this author in tile format which soothes the eye. The user will only be able to see these posts if he is following the user or if he is viewing his on profile. A user can perform various other tasks like send a follow request, cancel the request, un-follow a user from this page. He can visit the Update Profile Page from his own profile page by clicking on the button.
- The **Request Page** consists of 3 tabs:
  - **Requests**: This tab displays all the follow requests received by the current user which are pending for action. For user comfort, accept and reject buttons are provided. The user can also visit the requesting user's profile.
  - **Followers**: This tab displays a list of all the users that follow you. You can visit their profile pages from here.
  - **Following**: This tab displays a list of all the users that you are following. You can visit their profile pages from here.
- **Search Page**: This is a powerful search feature which helps a user search for other users on the platform using their handle. It also supports string matching!
- The **Upload Page** is a place from where you can publish new posts.
- **Update-profile Page** is the page from where you change the user information and profile picture.

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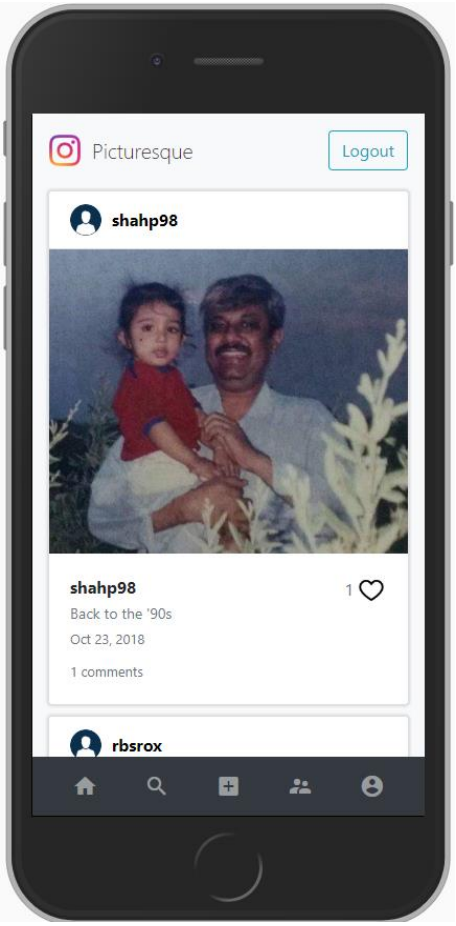
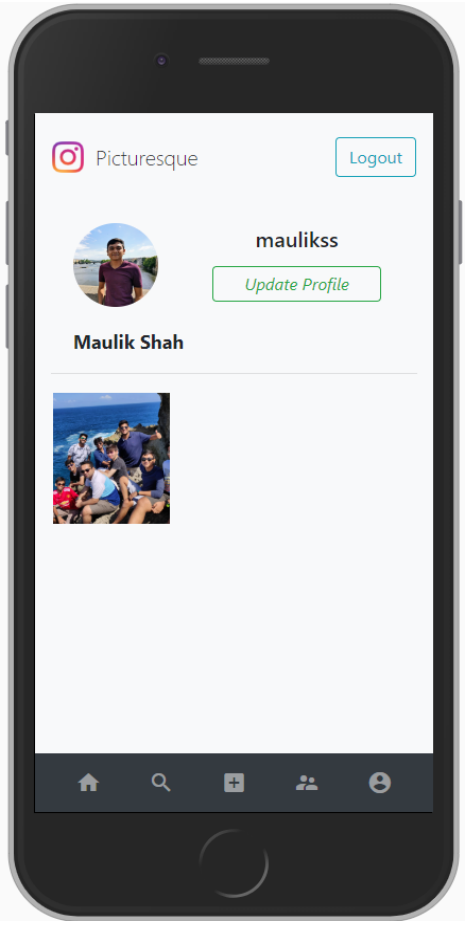
Screenshots

Home Page



Profile Page



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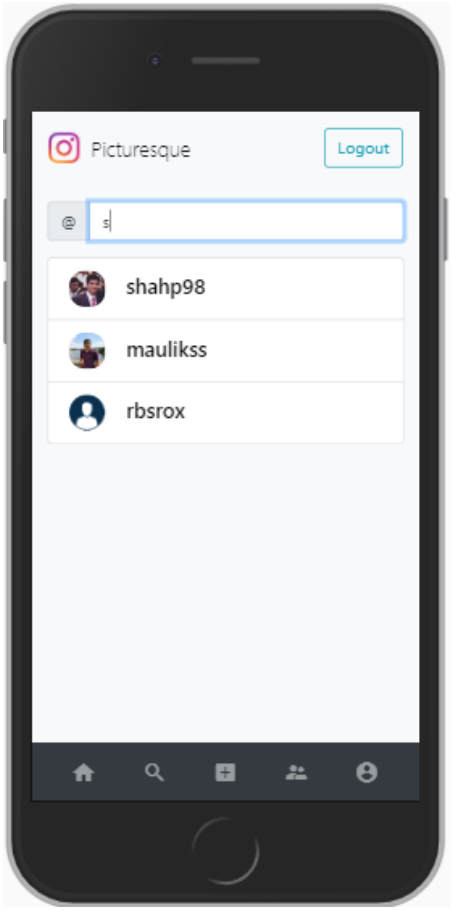
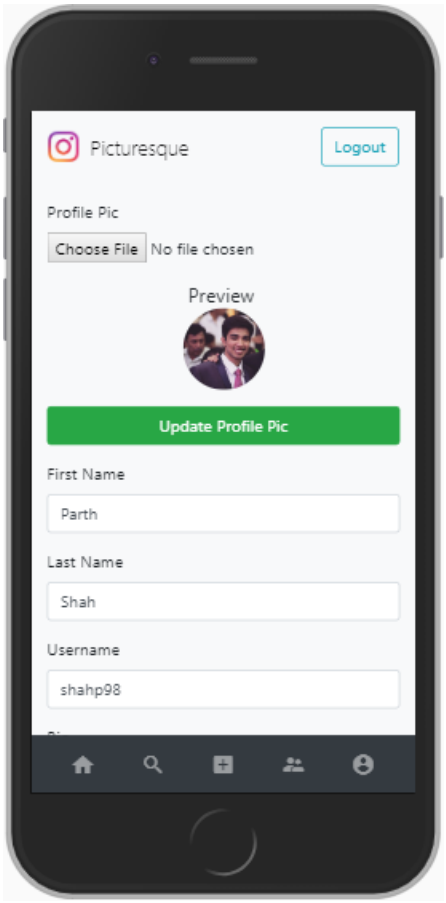
Search Page



Update-profile Page



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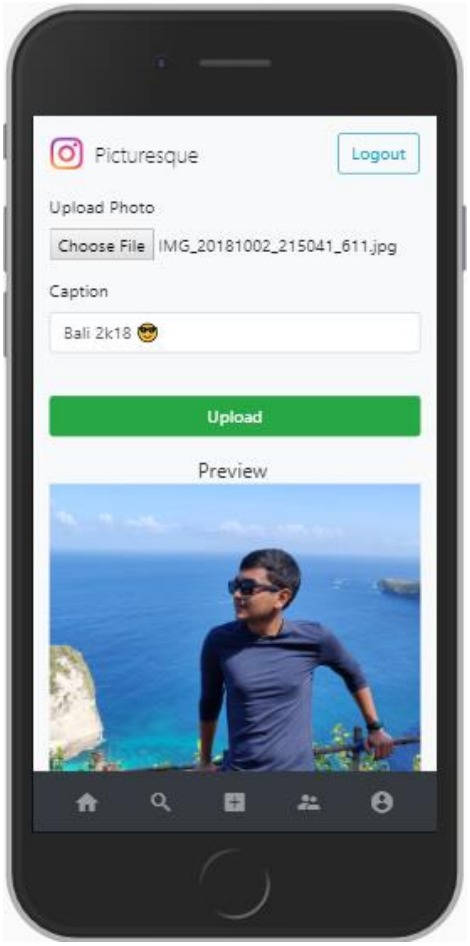
Upload Post Page



Requests Page