

Cloud Computing

Assignment #2

GIF VIEWER

Prashakar Prabakaran

100489428

What is it

Gif viewer is a web app that allows you to view your favourite gifs based on your search criteria of type of gifs.

What it does

My web app is designed to work for multiple users with the use of authentication. It allows a user to input a type of gif and it will find a collection of gifs that match the query. Another added feature is the ability to store those gifs. As you browse various gifs especially the really funny ones you would probably want to save them to show others! My app allows this.

Architecture

Gif viewer is powered by Amazon EC2 and developed using Node.js. The datastore used was sqlite3. Gifs are obtained from Giphy public free-to-use API. Stormpath is another service used to help with user authentication.

Data is obtained via a REST GET call and the JSON response is parsed on server side Node.js, stored in the sqlite3 database, served using express with Twitter Bootstrap to assist with design and Jade/Pug used for templating and generating the HTML markup. The Giphy API has certain routes blocked and only accessible after being authenticated. I am specially only getting the raw gif url standard size and using that in the web app.

I am using Socket.io for real-time web sockets. This is done so that we can see the total number of active users in real-time! The server sends an update using socket.io and there is a script in the client side that can detect these updates and populate it in the html.

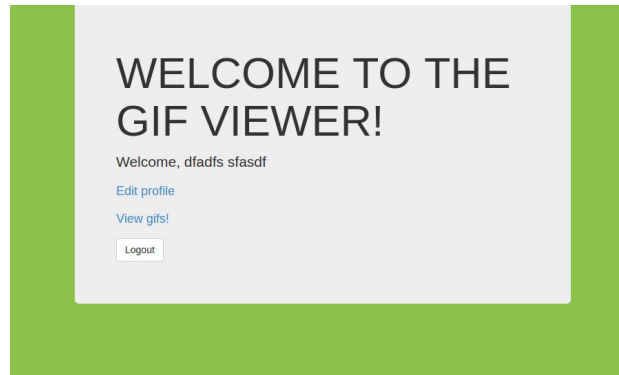
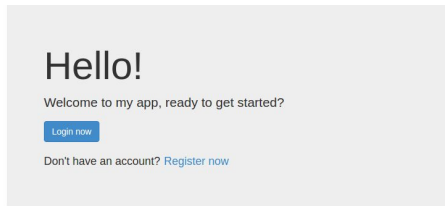
Novel features, challenges and solutions

An amazing feature that Gif viewer brings is the ability to just quickly find many gifs from a reliable and deep data collection and save them. Another great feature is that all previously shown gifs are saved! This is useful because gifs are amazing! They are very funny and really fun to just watch. I am sure this is a web app that many people would love to use including me.

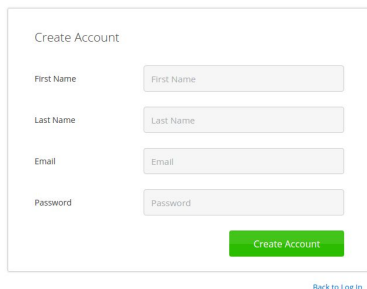
The challenges I faced related mostly to dealing with websockets. It was very difficult to set up socket.io to get the real time active user count.

An in-depth look

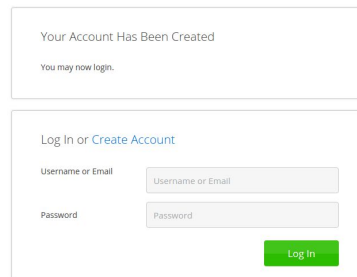
Homepage



Registration

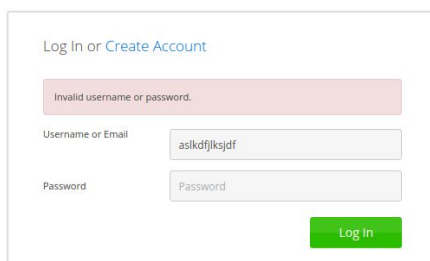
A white rectangular box with a thin gray border. The title 'Create Account' is at the top. Below it are four input fields: 'First Name', 'Last Name', 'Email', and 'Password'. Each field has a placeholder text of the same name. At the bottom right is a green button labeled 'Create Account'.

[Back to Log In](#)

Two stacked white rectangular boxes with thin gray borders. The top box has the text 'Your Account Has Been Created' and 'You may now login.'. The bottom box has the title 'Log In or Create Account'. It contains two input fields: 'Username or Email' and 'Password'. At the bottom right is a green button labeled 'Log In'.

[Forgot Password?](#)

Incorrect login

A white rectangular box with a thin gray border. The title 'Log In or Create Account' is at the top. Below it is a red error message box that says 'Invalid username or password.'. There are two input fields: 'Username or Email' and 'Password'. The 'Username or Email' field contains the text 'asikdfjksjdf'. At the bottom right is a green button labeled 'Log In'.

[Forgot Password?](#)

Update profile

My Profile

First Name	<input type="text" value="dfadfs"/>
Last Name	<input type="text" value="sfasdf"/>
Age	<input type="text" value="22"/>
Type of GIF to search	<input type="text" value="e.g. Epic fails"/>
<input type="button" value="Save"/>	

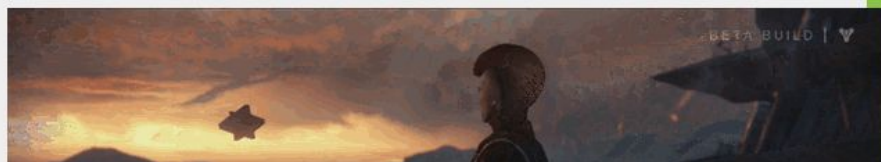
[Return to home page](#)

View gifs

Check out these gifs related to your search

CURRENT ACTIVE USERS 1

[View saved gifs](#)



Saved gifs

Here your saved gifs

