Group Name: Stallions

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The stallions project

INFO 2602 – Web Programming and Technologies

**URL OF THE HOSTED APPLICATION**

<https://gentle-peak-15231.herokuapp.com/>

**URL OF THE GIT REPO**

<https://github.com/StallionsProject/INFO2602_Project/>

**CODE AND INSTRUCTIONS ON RUNNING THE APPLICATION**

Can be found in the readme.txt file in the project folder

**CREDENTIALS FOR THE WEBSITE**

You can register and login on your own (ensure you use a valid email address)

OR

Username: Snick Password: password

**KEY FEATURES**

|  |  |  |
| --- | --- | --- |
| **Features** | **Description** | **URL** |
| Register | Register a user | <https://gentle-peak-15231.herokuapp.com/register> |
| Login | Login as a user | <https://gentle-peak-15231.herokuapp.com/login> |
| Home page | Feed of top viral posts | <https://gentle-peak-15231.herokuapp.com/> |
| Dashboard | Provides personalized feed for each user based on account preferences | <https://gentle-peak-15231.herokuapp.com/dashboard> |
| Upload Image | Allows a user to upload an image to Imgur itself and delete the image if necessary | <https://gentle-peak-15231.herokuapp.com/upload> |
| Analytics | customized interactive highcharts based on real-time data | <https://gentle-peak-15231.herokuapp.com/analytics> |
| Profile | User data | <https://gentle-peak-15231.herokuapp.com/profile> |
| Meme Review | Playlist of meme reviews | <https://gentle-peak-15231.herokuapp.com/playlist> |
| User List | Displays a list of usernames and descriptions | <https://gentle-peak-15231.herokuapp.com/users/users-info/>  https://gentle-peak-15231.herokuapp.com /users/users-info/:skip  where :skip is an integer passed in;  paginated according to the skip value |

Dashboard has 4 accounts preloaded :- WantOne, EmersonBiggons, norrv, AMemeAddict

You can use the following accounts to test by adding the accounts on your Dashboard :- Knuckleheadtj, psytraTraveler

**IMPLEMENTED FEATURES**

|  |  |  |
| --- | --- | --- |
| **Specifics** | **File** | **Line Number** |
| **REST Services** |  |  |
| Perform GET request generated from developed API | Home.componenent.ts | 26 |
| Perform POST request from developed API | Upload.component.ts | 28 |
| Perform DELETE request from developed API | Upload.component.ts | 52 |
| Create two GET request | Auth.service.ts | 45,54 |
| Create two POST requests | Auth.service.ts | 24,63,72 |
| Create one PUT request | Auth.service.ts | 17 |
| Create one DELETE request | Auth.service.ts | 78 |
| Accept at least two parameters from client | Register.component.html/  Register.component.ts |  |
| At least two methods should be authenticated | Auth.service.ts  getProfile()  updateProfule() | 39  57 |
| Utilization of session within the developed API | Home.component.ts/  Upload.component.ts/  Analytics.component.ts | 25/  27,51/  171,226 |
| **Database Connectivity** |  |  |
| Successfully connect to database | App.js | 10 |
| Create user with associated database | Register.component.ts | 27 |
| Insert data into the database | Auth.service.ts | 17 |
| Utilization of Limit & Offset |  |  |
| **Cloud** |  |  |
| Successfully deployed to a cloud-based solution (i.e.  Heroku, Digital Ocean, Firebase) | Heroku |  |
| Database online | MongoDB Atlas |  |
| Accessible online | https://gentle-peak-15231.herokuapp.com/ |  |
| **Data Visualization** |  |  |
| Successfully Implementation of at least one visualization | Analytics.component.ts |  |
| Applicability to the problem | The data from the first chart portrays the comparison between Imgur and Instagram. This demonstrates a stark difference since Imgur’s user base in this year is still lower than Instagram’s user base in 2016. It can be inferred that the major difference between the two applications is the customizability of Instagram that provides user’s with a more personalized experience. This is a major reason why we developed our application, which would expand on Imgur’s existing functionalities in order to yield higher customer loyalty and increased usage. | |

**CS Topic –** Extensibility

Extensibility is a software design principle defined as a system’s ability to have new functionality extended, in which the system’s internal structure and data flow are minimally or not affected (recompiling or changing the original source code is unnecessary). Extensibility is also known as modularity without compilation.

With the Stallions application, should it need to incorporate new features, it would be easy to do so by adding a new component to the application without the need for any pre-existing code in the application to be modified to accommodate the added functionality.

**Justification of the Design Factors Chosen**

The design approach chosen by our group was a top down stack approach. This approach involves breaking down the problem into separate tasks and these tasks into smaller sub-tasks as necessary.

The advantages of using this approach is that it is easy to see progress as each component/task is added and developed independently of each other and it is easy to include additional features where necessary. Testing and Debugging is also easy and efficient as each component can be tested separately and this approach is good for detecting and correcting any time delays.

**Important Areas of the Project**

Imgur, a popular, reliable, image sharing website, displays viral/top trending posts to all of their users which are over 250 million. Despite this high number, Imgur still does not rank high since they lack features that make them a cut above the rest. Users today want more from a website than just functionality, they want customizability and personalized features.

Our application, the Stallions App, is an extensible application that includes additional features not already provided by the Imgur website. The core feature of the Stallions application is the personalized dashboard which includes posts by accounts that the user has chosen based on their interests. The dashboard feature requires that the user be registered and logged into the application first. This will greatly improve user satisfaction as they are now able to view tailored content.

Our analytics page shows real-time interactive data for users about Imgur’s competitors as well as statistical information on the data and images that are being displayed. This allows the user to gain more insight about the content that is being delivered to them through our application. For further user satisfaction, we have included a meme review page to educate the user about the culture of memes typically seen in the home page and for their general entertainment.

The application also provides base features such as viral posts on the home page, an option to upload an image and delete that image as well as a profile page with user description for each user registered on our system.

An additional feature included displays all the users of our application by their usernames with an associated description. This allows users to be aware of the community of persons utilizing our application.

Conclusively, our application provides users with the best personalized experience which will ensure their loyalty to continue using our application.