

Back-end Web Dev - Basic Web Application Rational

Semester 2 2020

Website information:

Github Link: https://github.com/sportidiot/tracking_site

Website Link: <http://jayden-uni.canberra.host/>

Concept:

For this project I decided to create an application that will help web developers understand the statistics of the different user profiles/devices used to access the web. Because the web has so many ways of access now with new technologies such as mobile, tablet and desktop and many different browsers it makes a web developer's job more difficult as they have to account for many different variations of access to their web page.

My App/API can be added to any such website and will give them access to all data about who accesses their website.

Some of the things my App tracks is;

1. Browser used
2. OS the user is on
3. Device the user is on
4. Locations of the users,
5. How many users are active and the daily average of users.
6. It has live update functionality (no refresh needed).
7. Has ability to generate reports and see visual representations of what a week/month/year looks like on their site.

Feasibility:

This web application is not only feasible but it also is needed. Many companies need this information to better understand who goes on their site and need to know how to improve their site where needed. All tracking is made possible by system information that is passed through when the browser talks to the web server.

Design:

For the design of this application, I will go with a very simple but modern, with big icons and short descriptions to show the statistics of the tracked data. All user input will be styled to be more comfortable and easy for all devices to view.

Back-end Web Dev - Basic Web Application Rational

Semester 2 2020

Development:

For development I will start with the foundation of the application, building the database connection first and then building the page and layout manager, using views for pages and functionality files for different unique features. All functions are documented with descriptions on how they work and what they do. I will have non compulsory Javascript assets that add functionality for live updates of the statistics on the site.

Testing:

Testing brought forward lots of bugs and issues that needed to be thought about such as the live tracker and how to go about email generation on the site with cron actions to allow the site to send emails without users accessing the site. I then asked for multiple testers to go through the site and try and break it and use it without instructions.

Development:

For the second round of development I went through my list of bugs and new intended features and used a Scrum board to help with the process. All new features were added to the site and all bugs were ironed out.

Back-end Web Dev - Basic Web Application Rational

Semester 2 2020

Documentation:

Home Page

<http://jayden-uni.canberra.host/>

You can see all the stats of the website. This will be live so you can open another window and update it or you can use another device.

Login

<http://jayden-uni.canberra.host/login>

You can login from this page, you can use either email or username to login.

Register

<http://jayden-uni.canberra.host/login#register>

You can register from this page, you must enter all fields to sign up.

Change tracking data

<http://jayden-uni.canberra.host/admin>

You can change the tracking data from this page.

Add to message board

<http://jayden-uni.canberra.host/admin>

You can change the message board from this page, no swearing accepted.

Update User information

<http://jayden-uni.canberra.host/admin>

You can change your user info from this page.

Remove Account

<http://jayden-uni.canberra.host/admin>

You can remove your user info from this page.

Back-end Web Dev - Basic Web Application Rational

Semester 2 2020

Logout from Account

<http://jayden-uni.canberra.host/logout>

You can logout from any page using the Logout button or going to this link.

Start report

<http://jayden-uni.canberra.host/admin>

You can create a report on this page.

To force email cron to send reports:

<http://jayden-uni.canberra.host/cron>

To force email cron to send reports without caring about date:

http://jayden-uni.canberra.host/cron?email={email_of_report}