**MMA Blazor Applications**

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**System Description**

The main goal of the application is to allow the user to search for fighters and see past MMA fight results. I was able to make this a reality by using the MMA API from api-sports (<https://api-sports.io/documentation/mma/v1>)

Once the user opens the home Page, they will see this:  
  
A screenshot of a black background

Description automatically generated

A navigation bar to the left of the screen that let’s the user go back to the Home Page, Go to the /search page by clicking on the “Search Fighter” Button, and also the option to go to the page where “Fight Results” can be seen under the /fightresults URL. Once each of the button is hovered, they transform into having a orange background alongside a larger surface level to make it clear to the user that if they click said button it will take them to somewhere else.

The user can also go to the same pages using the main two buttons at the centre of the screen, I believe that this was important because it gains the user’s attention and makes the ability to search for their desired link even easier.

**Search Page**

Once the “Search for a fighter” button is pressed the user will see this:  
  
A screenshot of a computer

Description automatically generated

The user can then enter a fighter that they desire to get more information about, such as “Alex Pereira”. Once the user enters a fighter name that exists and click the “Search” button the web page will display the fighter’s name along with other key information such as nickname, gender, height, weight, reach, stance and category like so:  
  
A screenshot of a computer

Description automatically generated

If an incorrect Fighter name is entered the user receives an error message letting them know that they have entered an incorrect fighter name:  
  
A screenshot of a computer

Description automatically generated  
  
Once a correct fighter name is provided, the user also can display said fighter’s record history by clicking the “Get Fighter Record” button:  
  
A screenshot of a person

Description automatically generated

**Results Page**

Once the user clicks the “Fight Results” button or goes to the /fightrecords URL they will be presented with a page that gives them two options, like so:  
A screenshot of a computer

Description automatically generated

The user can search most recent fight results by clicking the “Get Latest Fight Results” button, every time that button is clicked the user will see the fight card results from the previous week like so:  
  
A screenshot of a video game

Description automatically generated

The user can see all the fight results on that night alongside more helpful information about each fight. The user has the second option of selecting a specific date they desire to look up using the calendar feature:  
  
A screenshot of a computer

Description automatically generated

If a user selects a date where no fights took place, they will see an appropriate error message letting them know about it:  
  
A screenshot of a computer

Description automatically generated

**Selenium Testing**

I have managed to develop 5 different e2e tests using selenium, they cover these following tests:

* Testing Fighter Search Functionality
* Testing Incorrect Fighter Name Search Error Handling
* Testing Page Navigation
* Testing Fighter Record Retrieval Functionality
* Testing Button Performance

Here are the combined and individual test passing:

Combined tests  
A screenshot of a computer

Description automatically generated

Testing Fighter Search Functionality  
A screenshot of a computer program

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Testing Incorrect Fighter Name Search Error Handling  
A computer screen with white text

Description automatically generated

Testing Page Navigation

A screenshot of a computer program

Description automatically generated

Testing Fighter Record Retrieval Functionality

A screenshot of a computer program

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Testing Button Performance

A screenshot of a computer

Description automatically generated

**Website Deployment**

I have managed to successfully deploy this website to Azure Portal and it can be accessed under this link: <https://mmablazorapp-ecetddcpccehcfax.westeurope-01.azurewebsites.net/>

The only difference being that my API does not allow other browsers to retrieve data regarding past and upcoming fights due to the concern of that data being processed for personal financial gain. Other than this the URL works as intended, all links were verified and work just as well as the local version.

**GitHub Repository**

Here is the link to my GitHub repository where I performed consistent commits throughout the project development: <https://github.com/PatrykCichosz/BlazorApp>

**Conclusion**

In conclusion, I am happy with how my app performs, I am relieved that my tests pass, and I implemented correct error handling that display suitable messages and improper image loading handling. My webpage is deployed, however I wish I chose an API that permitted the deployment of fight results on a browser, if I had to do this project again, I would begin my work sooner, read the API dashboard more thoroughly and ensure that my deployed webpage has the same functionality as my local page.