<h1>JAKE PORTARO || Marvel Movie API</H1>

OVERVIEW

- In today’s society, everyone, including me, loves Marvel movies! So, why not make a website for it?

PROCESS

- During the course of this project, I applied a backend API to integrate with my website.

GOAL

- The overall goal was to turn my already created backend API into a client side application that users could make their own accounts on!

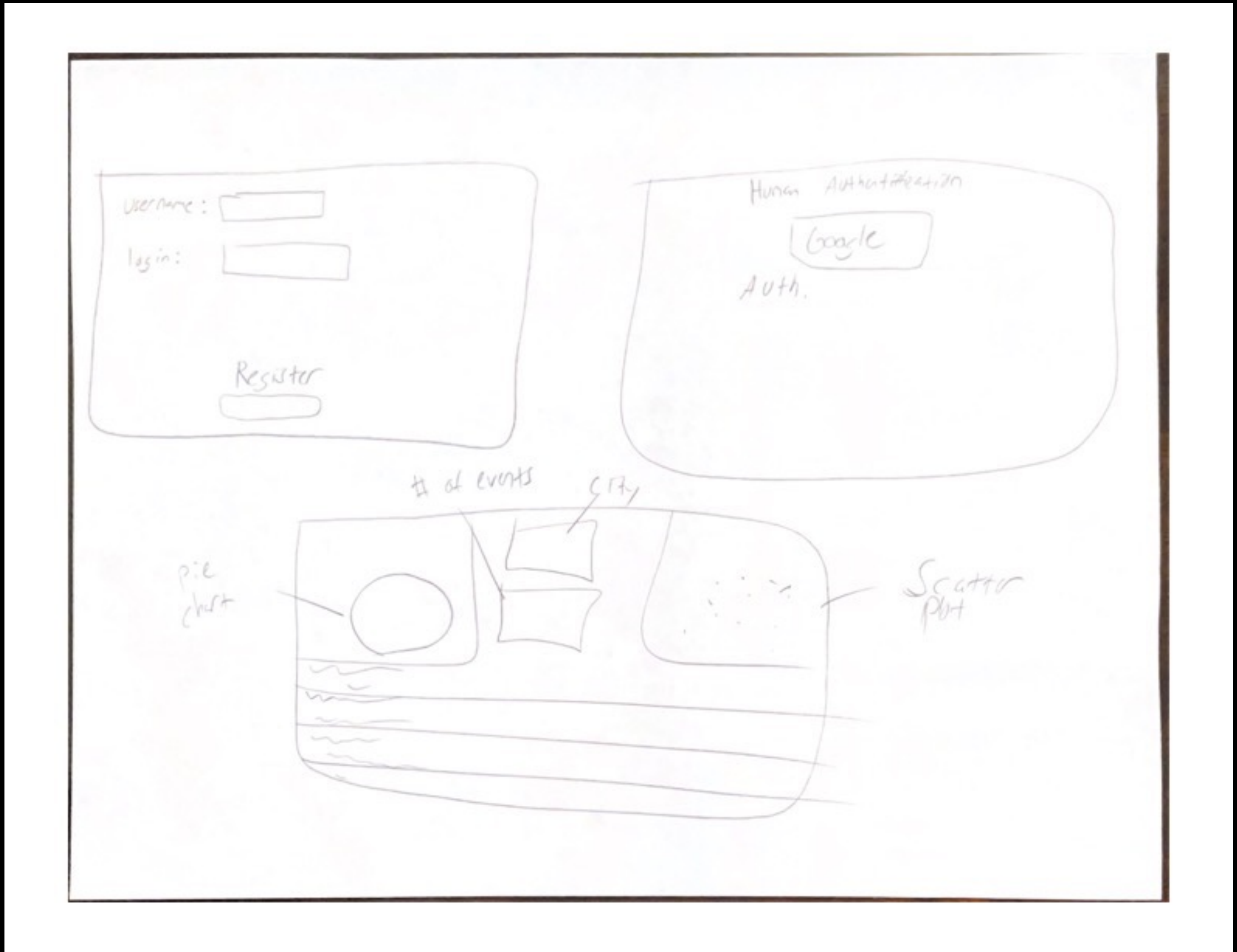
Why is backend integration important?

- App integration is important because it enables different applications and software systems to communicate and exchange data with each other, creating a seamless workflow.

Benefits of backend integration:

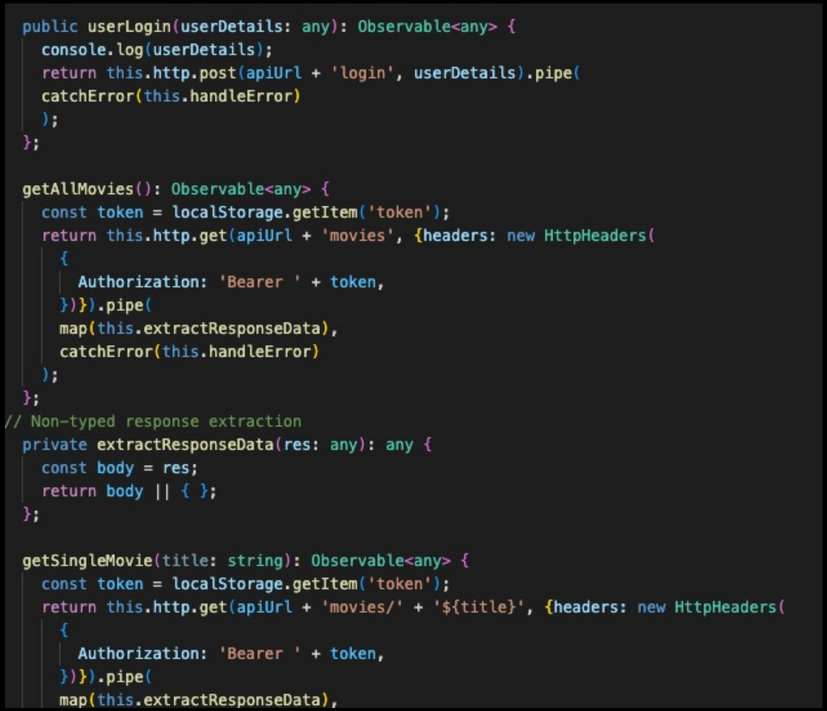
- Increased efficiency and productivity by automating processes and reducing manual effort
- Better data flow and management by eliminating data silos and providing a centralized view of information
- Improved decision-making by providing access to a wider range of data sources
- Enhanced user experience by providing a seamless, integrated workflow across multiple applications
- Increased agility and responsiveness to changing business needs by allowing for quick and easy integration of new applications and systems.

Initial Sketches



- The initial though of the website was to have a user login
- With more thought, I decided to also let users edit their accounts and like their favorite movies
- Creating a login and password was necessary

API RESTful calls



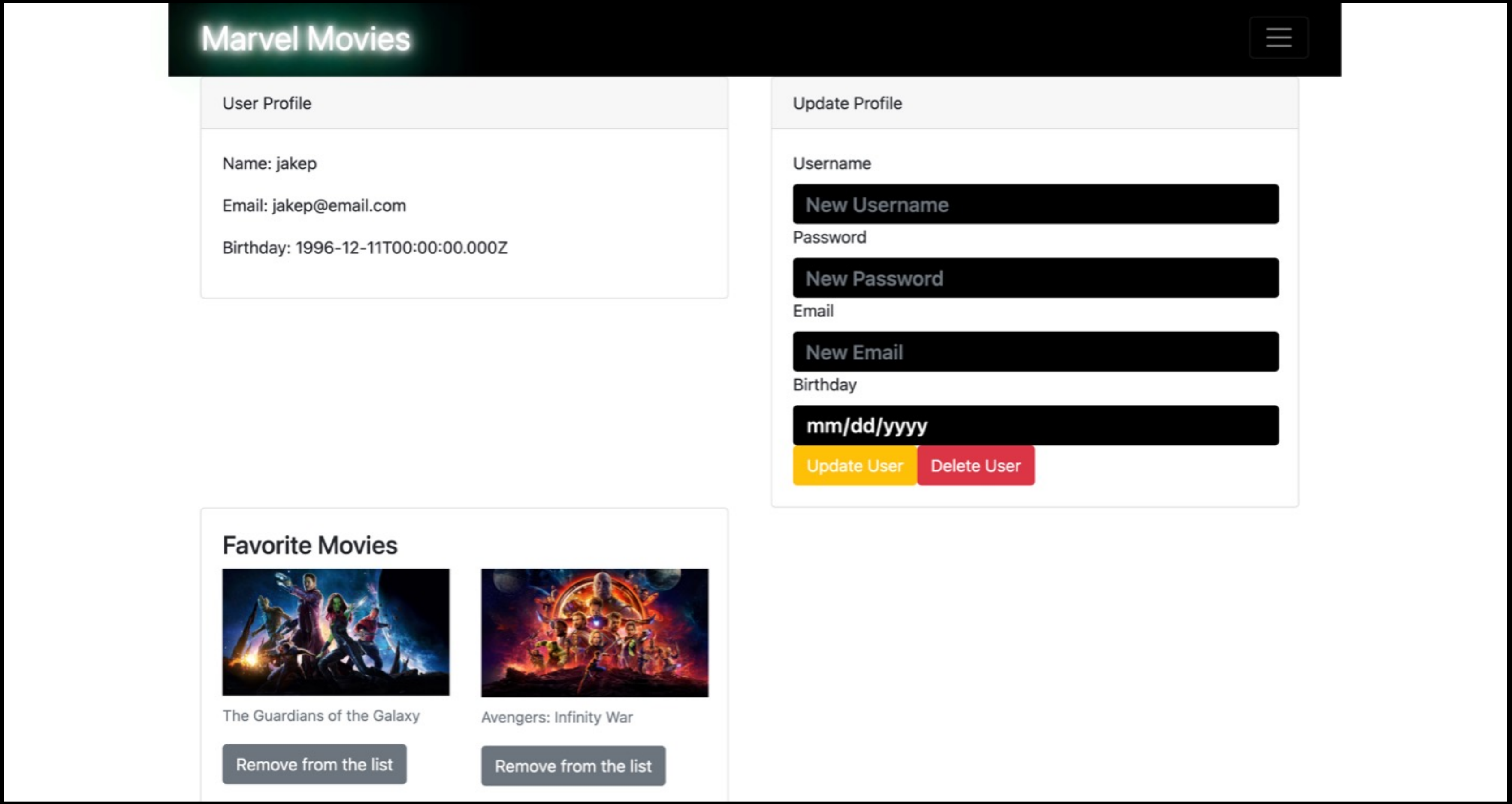
```
 public userLogin(userDetails: any): Observable<any> {
   console.log(userDetails);
   return this.http.post(apiUrl + 'login', userDetails).pipe(
   catchError(this.handleError)
   );
 };

 getAllMovies(): Observable<any> {
   const token = localStorage.getItem('token');
   return this.http.get(apiUrl + 'movies', {headers: new HttpHeaders(
     {
       Authorization: 'Bearer ' + token,
     })}).pipe(
     map(this.extractResponseData),
     catchError(this.handleError)
   );
 };
// Non-typed response extraction
 private extractResponseData(res: any): any {
   const body = res;
   return body || { };
 };

 getSingleMovie(title: string): Observable<any> {
   const token = localStorage.getItem('token');
   return this.http.get(apiUrl + 'movies/' + '${title}', {headers: new HttpHeaders(
     {
       Authorization: 'Bearer ' + token,
     })}).pipe(
     map(this.extractResponseData),
```

Here we can see the various API calls to the backend to retrieve data in order to check many things! Whether the user's password matches, getting a certain movie, favoriting a movie, etc.

What it looks like!



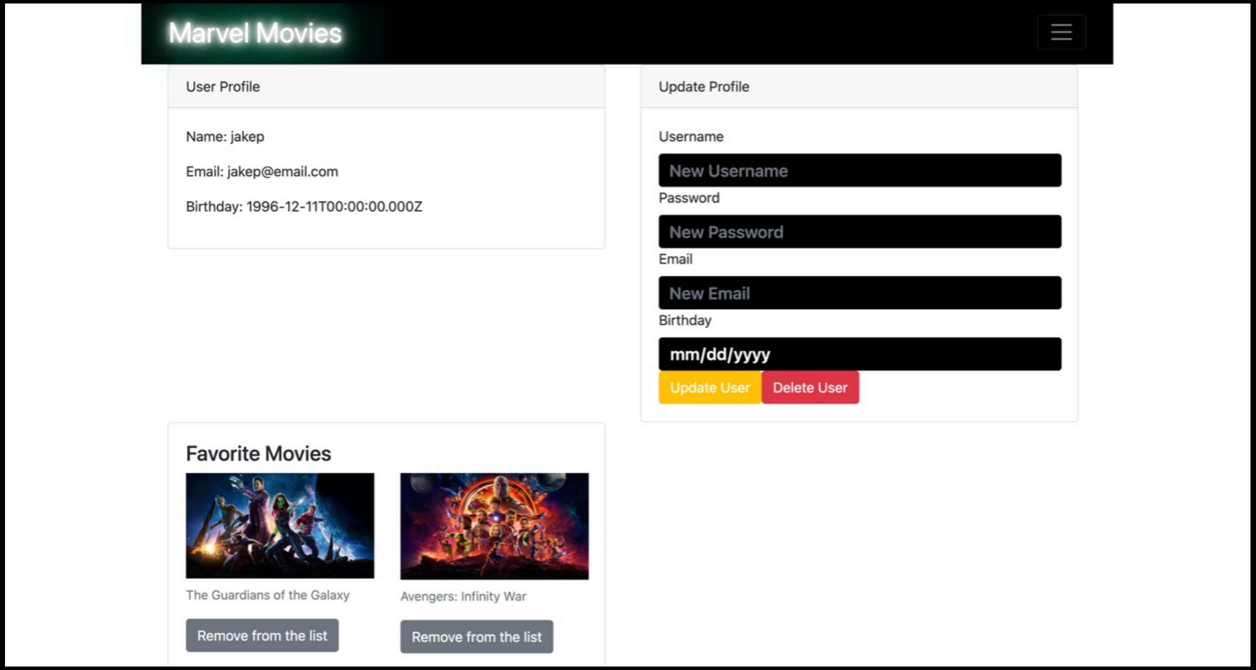
Name: jakep

Email: jakep@email.com

Birthday: 1996-12-11T00:00:00.000Z

- This is a picture of a user’s profile page with their favorite movies and info!

Check it out for yourself!



Marvel Movies

User Profile

Name: jakep

Email: jakep@email.com

Birthday: 1996-12-11T00:00:00.000Z

Update Profile

Username: New Username

Password: New Password

Email: New Email

Birthday: mm/dd/yyyy

Favorite Movies

The Guardians of the Galaxy

Avengers: Infinity War

Either Click on the image or the link below to be taken to the website!

https://mcumovies.netlify.app/

Key Takeaways!

What went well

Making the UI of the app was great! It was very fun and exciting!

What didn’t go well

The authentication integration and updating is tricky. If the site isn’t updated correctly, it could have bugs for logging in.

Future

I would love to improve on not needing updates to work properly.

Final thoughts

This project was awesome and I learned so much. Learning how to integrate is the key to software engineering.