GUC
الجامعة الألمانية بالقاهرة

SCAD

Internship Evaluation & Reporting

Thank you for taking the time to complete this form, this evaluation will be used to assess the student's participation in the internship program.

Supervisors, using the form below please evaluate the student who interned with your organization, institution, or business. You can fill out this form electronically or you can fill it manually but eventually it must be signed and stamped from the company's side.

Please note that part I & III should be completed by the intern, part II should be completed by the direct supervisor in the company.

Part I. GENERAL INFORMATION – STUDENT'S INPUT

Student Info:

Student Name: Maryam Khaled GUC Student ID No.: 43-7239

Faculty: Engineering Major: MET (CS)

Student Mobile No.: 01026105743

Internship Info:

Company Name: German University in Cairo

Core Industry/Business: Country: Egypt

Supervisor Name: Mervat AbuelKheir Supervisor Job Title: Associate Professor

Supervisor Tel. No.: Supervisor Mobile No.:

Supervisor E-mail: mervat.abuelkheir@guc.edu.eg Training Department(s): CS

Source of internships: (1) SCAD office (2) on my own (3) Referrals from GUC TA/Dr. (4) Recruitment website (5) others:

Work Place: (1) Organization (2) Head Office (3) Branch (4) Factory (5) Site (6) Others:

German University in Cairo

Part II. EVALUATION AND COMMENTS – DIRECT SUPERVISOR'S INPUT

Period of Internship (dd/mm/yyyy) (dd/mm/yyyy)

From: 30 / 1 / 2022 **To:** 7 / 4 / 2022

Internship nature (Enrollment Status)

☑ Part time Please specify, no. of Days per week: 5 hours per day : 4

☑ Full time Please specify, no. of Days per week: 5 hours per day : 8

Company Stamp

For SCAD internal use only

Serial no.	SCAD Comment	Academic Reviewer Comment	Academic Reviewer Signature
			☐ Accepted ☐ Rejected Reason of rejection: Signature:

Please evaluate student's performance by marking the appropriate box:

For each of the following aspects, please mark the box in the rating scale that most closely corresponds to your evaluation of the profile of the student during the internship period. Please also feel free to offer comments and suggestions for changes and improvements in the space provided at the end of the form.

1=Unsatisfactory 2=Below Average 3=Satisfactory 4=Above Average 5=Excellent

	1	2	3	4	5	NA
Skills & Professional Attributes						
Ability to adapt to change						
Analytical skills						
Collecting data/ research data skills						
Creativity						
Follow up skills						
Interpersonal skills with peers, supervisors, and clients						
Problem solving						
Punctuality						
Reporting skills						
Responsibility and accountability						
Stress handling						
Taking initiatives						
Teamwork						
Time management						
Other:						
Technical Background						
Technical Knowledge						
Compatibility of technical skills with the job						
Other:						
Command of Languages						
Arabic						
English						
German						
Other:						

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1=Unsatisfactory	2=Below Average	3=Satisfactory	4=Above Average	5=Excellent

Computer Programs & Databases Please use space below in specifying the program/software used during the internship and evaluate student's performance accordingly	1	2	3	4	5	NA

Overall Evaluation of Student's performance and profile					
Unsatisfactory	Improvement needed	Meets expectations	Exceeds expectations	Exceptional	NA

General Comments & Recommendations: (kindly mention intern potentials, areas of further development or technical constraints encountered during the internship period)

	Yes	No	Maybe
Do you think similar candidates would fit in the Organization culture and qualify for job needs?	☐	☐	☐

Student Signature: Maryam Amin

Date: 27/6/2022

Supervisor Signature:

Date: 26/6/2022

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Part III. INTERNSHIP REPORT – STUDENT'S INPUT

- This report has to be prepared by the student, it must be prepared and written in a **computerized** format, submitting the report in hand written format will not be accepted.
- Kindly refer to the Internship Report writing Guidelines on the GUC intranet – SCAD office folder.
- This report will be reviewed and evaluated from internal faculty members.

Internship Title: Data Engineering and Web App internship

Company / Organization Name: German University in Cairo

Introduction: (Not less than 100 words) (should depict the main purpose of the report, covering the objective out of performing this internship in this industry/company specifically then cover the outline for the report's structure)

Company / Organization Description: (Not less than 100 words)

Internship Performed Tasks: (Not less than 100 words)

Internship Evaluation: (Not less than 100 words) (This section should answer the following questions in the form of a paragraph)

What skills do you think that you have gained from the internship? Did the internship meet your expectations? If not, please explain why? How do you think the internship will influence your future career plans? How do you think the internship activities that you carried out are correlated with your studies? Which of the academic courses that you have taken in GUC were the most related to your internship?

Conclusion: (Not less than 100 words) (A summary of key conclusions derived from the internship experience. general observations about the sector in which your internship company/institution operates)

Please rate your satisfaction with the internship experience.

☑ Very satisfied ☐ Somehow satisfied ☐ Neutral ☐ Somehow dissatisfied ☐ Very dissatisfied

Would you recommend this internship to other colleagues?

☑ Yes ☐ No ☐ Maybe

References: (If any external sources are used, provide references for any information quoted)

Appendices: (Upon availability, charts, pictures, etc.)

Disclosure / Confidentiality Agreement

This agreement is to acknowledge that the information provided by any company / organization during the internship is unique to this business and confidential.
Therefore, anyone reading this agreement agrees not to disclose any of the information provided during the internship without notifying & taking the employer's / supervisor's approval.

Introduction:

The purpose of this report is to document what I have learned and the experience I gained from this internship opportunity conducted at the German University in Cairo under the supervision of Professor Mervat Abuelkheir. The aim of this internship opportunity is to expose us to real world conditions related to the data engineering field as well as the web development field. This internship is about the collection, processing, and analysis of Arabic Movies features and plots, and the web part involves displaying what we have achieved. In this report I outline what I have accomplished by addressing the following:

1. Description of the company
2. Tasks Performed
3. My evaluation of the internship
4. Conclusion to sum up my experience

Description of the company/organization:

The German University in Cairo, GUC, is an Egyptian Private University founded by the presidential decree 27/2002, according to the law number 101/1992 and its executive regulations number 355/1996. The German University in Cairo has been established in 2002 in cooperation with the State Universities of Ulm and Stuttgart, under the patronage of the Egyptian Ministry of Higher Education, the Ministry of Science, Research Arts, State of Baden- Wurttemberg, Germany, and supported by the German Academic Exchange Service (DAAD), the German Embassy in Cairo, the Arab/German Chamber of Industry and Commerce (AHK), the Federal Ministry of Education and Research, Germany, The State University of Tubingen, The State University of Mannheim and the Academy of Fine Arts Leipzig.

Tasks Performed:

This section includes:

1. Brief introduction on previous work
2. Overview of how we used the MERN stack
3. Tasks performed which include:
    i. Frontend – components used along with their pictures

ii. Connecting the frontend to the backend
iii. Deployment

1. Brief introduction on previous work

This internship opportunity was a continuation of previous work done by students who managed to collect a dataset with features about Arabic movies from the 40s to the 70s from a website called elcinema.com. They analyzed features relevant to cast members and trends of stardom and cast correlations over time, and analyzed the plots themselves for word usage and plot themes and how they evolved over time.

2. Overview of how we used the MERN stack

We achieved our work using the MERN stack, which is an architecture that allows you to construct a 3-tier architecture (frontend, backend, database) using JavaScript and JSON. We used React.js to build up the following components, and we used MongoDB database for storing data for later retrieval and Express.js framework and Node.js server for URL routing and handling HTTP requests and responses. By making GET and POST request from the frontend, we connected to Express.js functions which powered our application.

We used Visual Studio Code in order to implement our application

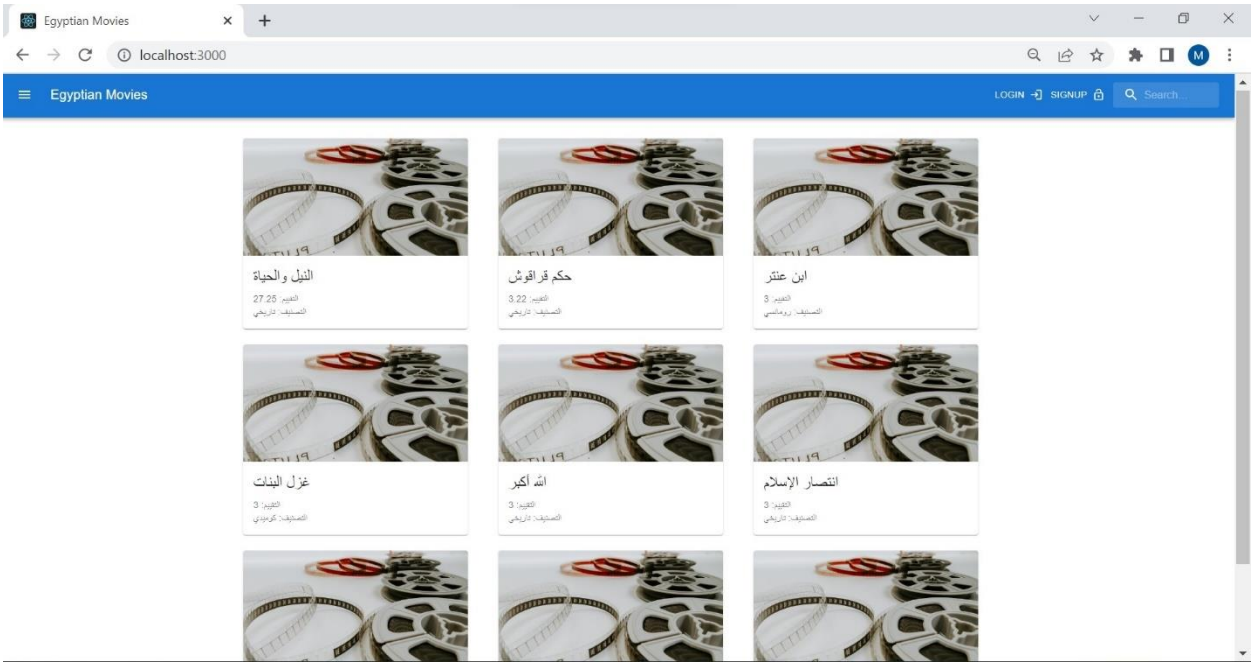
3. Tasks Performed

The main task that I was enrolled in in this internship was creating the frontend of the website to display the results of what was achieved by the Data Engineering tasks. This was achieved using the React frontend library.

Firstly, we started by discussing the structure as well as the design of our website. The website has various features and I will be discussing each feature and how it was achieved. For these features, we used Material UI, a comprehensive library of components that features the implementation of Google's Material Design system, and provides robust, customizable, and

accessible foundational and advanced components, enabling you to build and design your system and develop React applications.

When we first open the website, the home page is displayed, which contains movies, a login option, a signup option, and a search bar as demonstrated below.

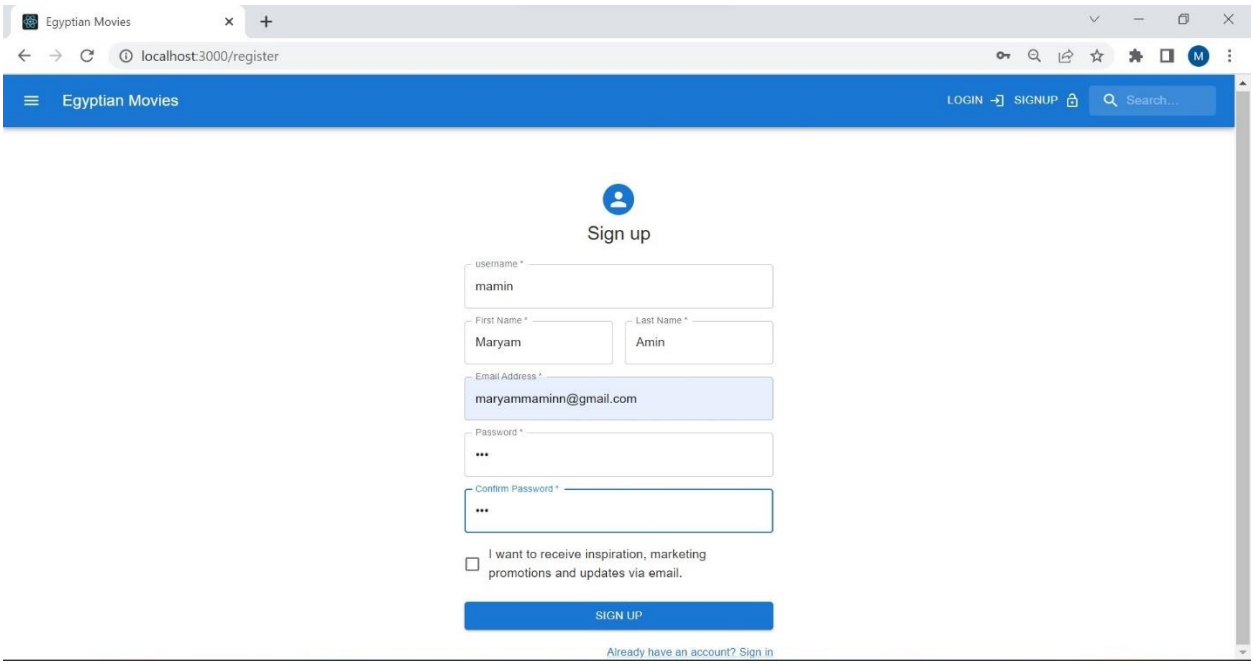


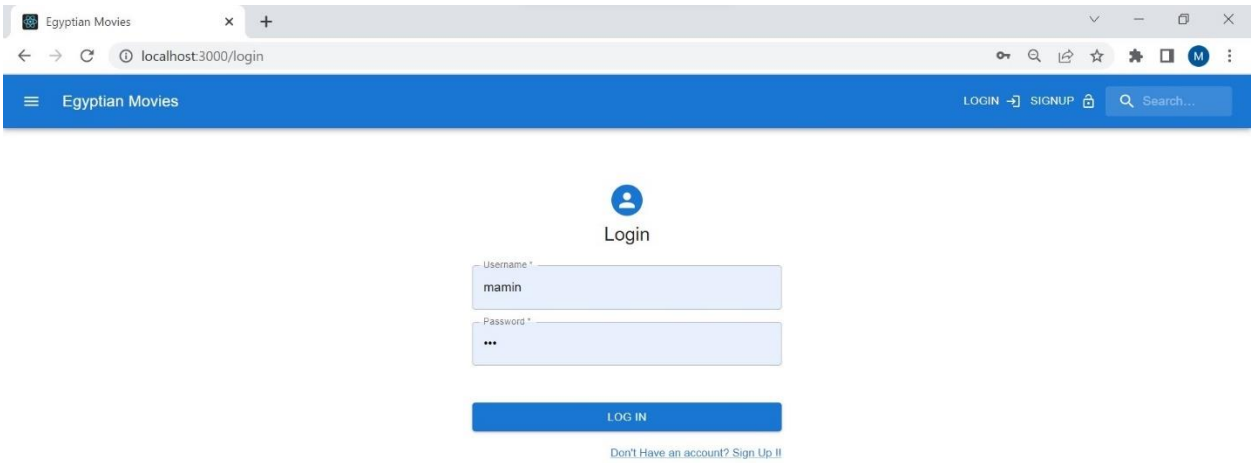
I will be providing screenshots of the components created.

i. Frontend

1. The SignUp Component

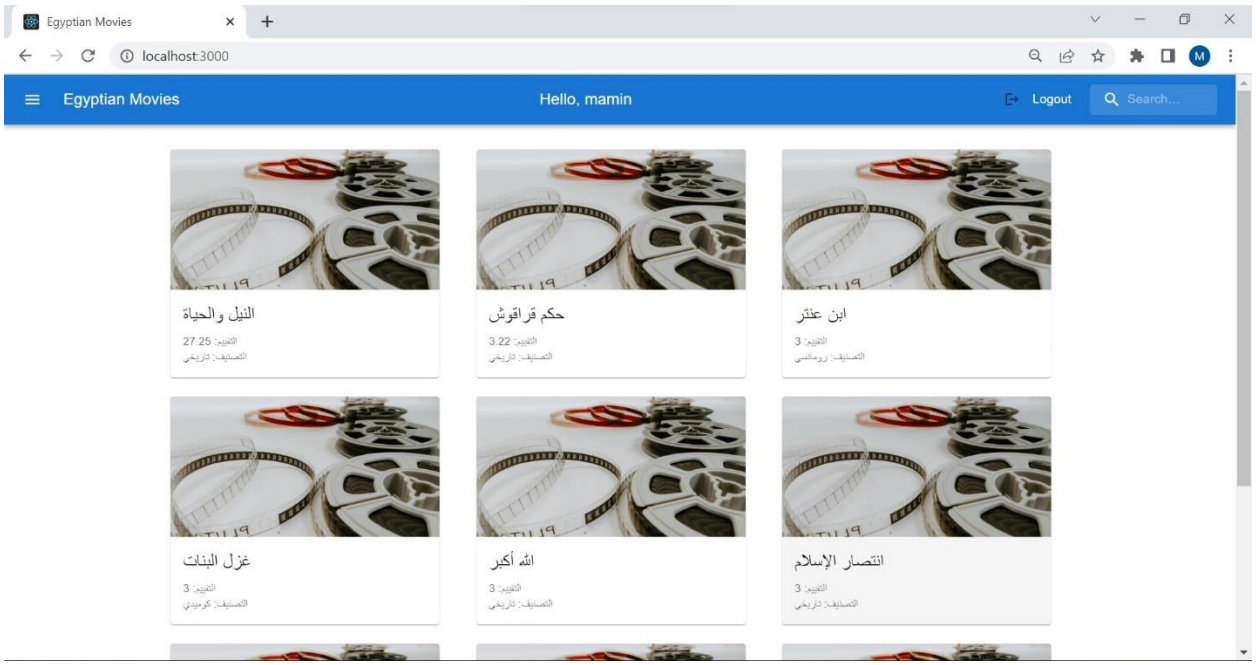
The following screenshot shows what our SignUp component looks like. There are 6 textfields for the user to fill in. The user can fill in their username, first name, last name, email address, password, and a password confirmation in order to sign up. When the user clicks on the SIGN UP button, their data will be stored in our database, and will be redirected to the login page as shown below.



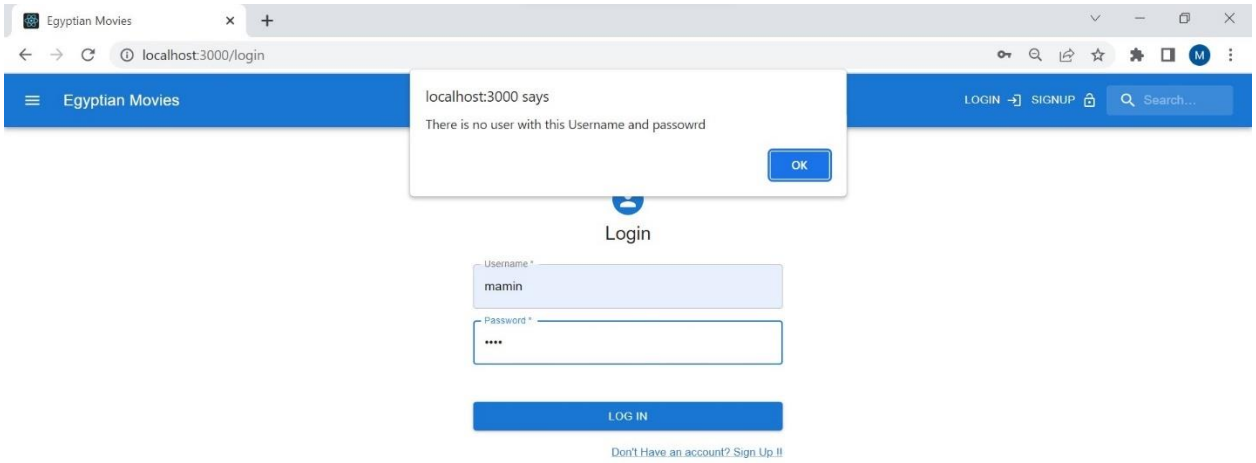


2. The Login Component

This component contains a textfield to enter your username, and another textfield to enter your password and then the log in button. If the user enters correct credentials, the data will be verified by the database and the user will be successfully logged in and then will be redirected to the home page, indicating their username in the taskbar at the top. This is demonstrated below:



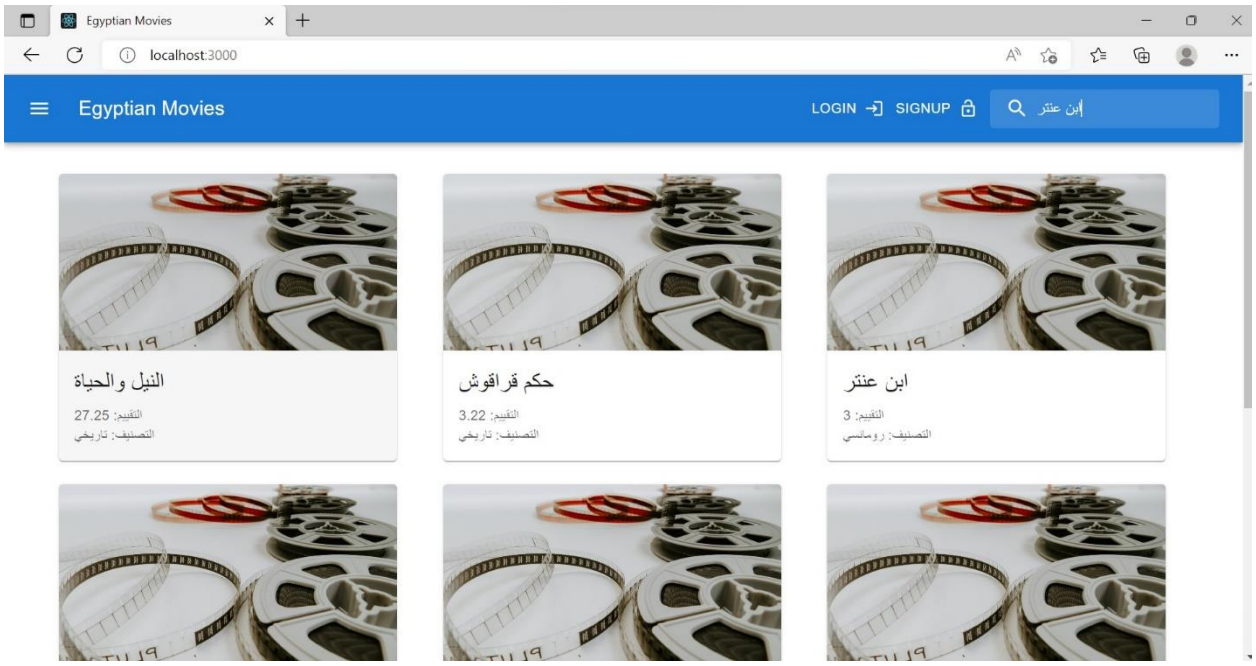
If the user enters wrong data, they will also be notified that the login failed, indicating that the username and password combination does not exist in the database as shown below.



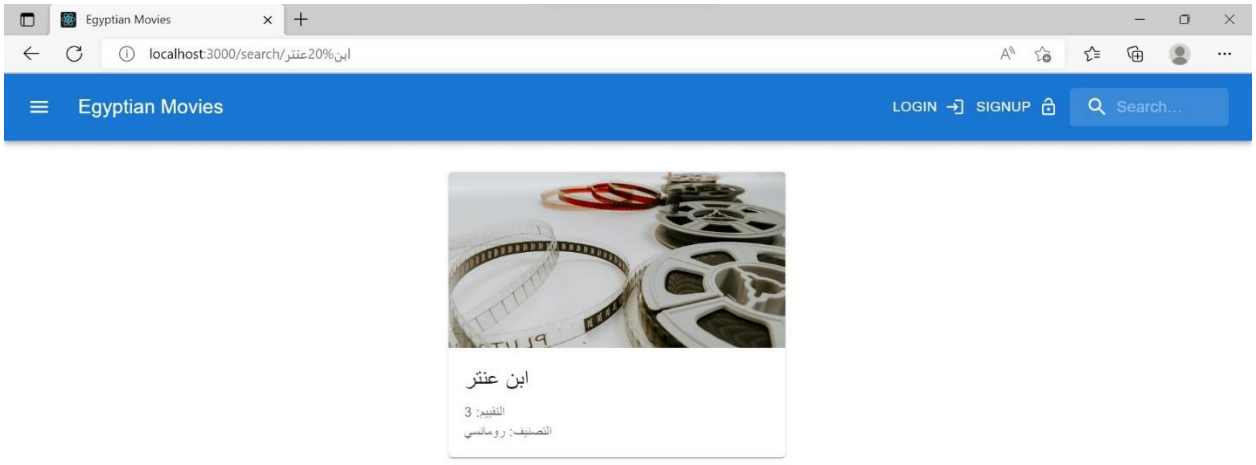
3. The Search Bar Component

This component allows the user to search for a certain movie. The user types in the name of the movie in the search bar and the movie appears in the results.

The following shows an example of searching for the movie "ابن عنتر":

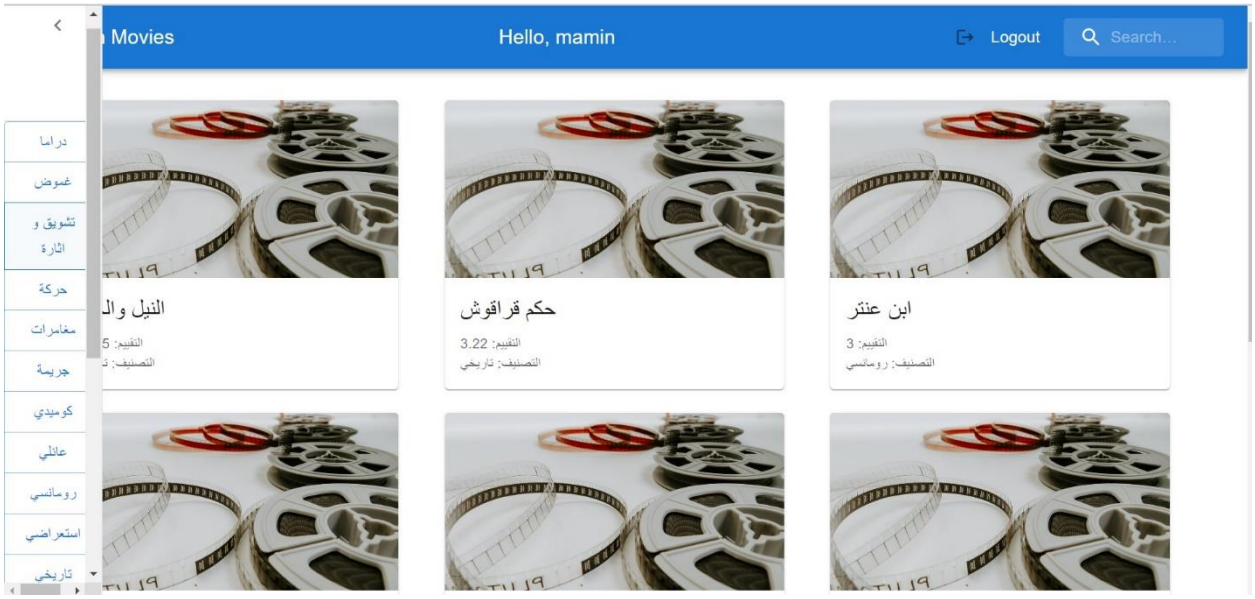


And its result:

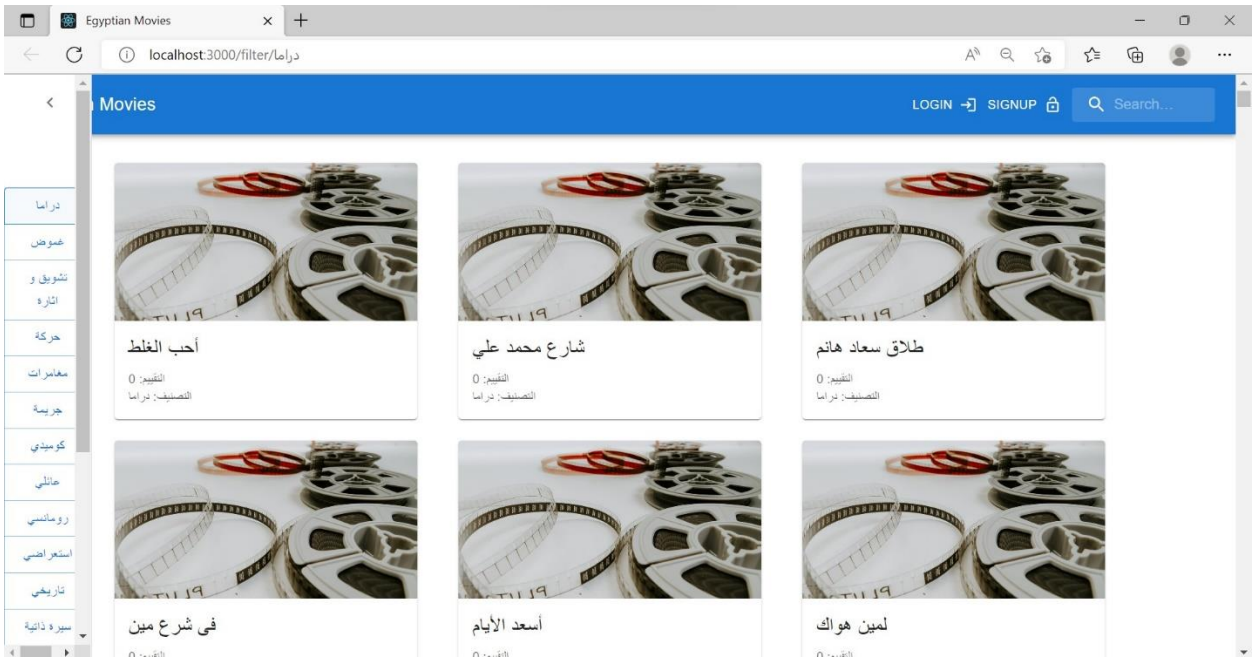


4. The Button Group Component

This is a responsive drawer that displays a button group when clicked on, and the button group shows all the genres of the movies from which the user can choose form, as displayed on the left in the following:



These are the resulting movies after clicking on "دراما" button, as indicated by the /دراما in the URL shown above:



5. The Movie Card Component

The user can click on any movie of preference and they will be redirected to a page that displays information about that movie. The information includes the movie's name, its summary, its rating, its genre, the cast, its duration, its release date and starring.

The following is an example illustrating what is mentioned above after clicking on the movie "النيل والحياة" :

6. The Star Rating Component

Moreover, the user can rate the movie using a scale of 5 stars which they can find below the movie information as shown above.

The user can also delete their old rating and rate again according to their preference.

ii. Connecting the frontend to the backend

To connect the frontend to the backend, for each of the components used above, we used Axios, a promised-based HTTP client for JavaScript, and has the ability to make HTTP requests from the browser and handle the transformation of request and response data. We used axios.get(url) and axios.post(url) whenever we needed to retrieve an object using a promise and inside that object is data that is then assigned to a certain value.

iii. Deployment

The backend part of our application was deployed using Heroku, a PaaS that enabled us to build and run our application entirely in the cloud.

The frontend part of our application was deployed using Netlify, also a tool used to develop and deploy a React project. We first installed some commands from Netlify on our terminal, then we used Netlify CLI to deploy our React app, and then creating our website's domain name.

Internship Evaluation

This internship has taught me how to create a web application and showed me how to apply concepts taught to us onto a real-life project using all the skills that I have gained. This internship has opened up a chance for me to be exposed to creating a web app, which is an interesting field and an in-demand career opportunity that I would like to be part of in the future. This internship was highly correlated with the Advanced Computer Lab (CSEN 704) course that we have taken during the 7^{th} semester, in which we utilized all the skills and technicalities we have gained from the course and applied them to a real-life web application project.

Conclusion

To sum up my experience, I am grateful to have been exposed to a real-life project that I am interested in. The key conclusions derived from my experience were how to use MERN stack and understand the concepts behind each of the technicalities of MongoDB, Express.js, React.js and Node.js. Moreover, I have become better at coding using JavaScript, better at connecting the frontend to the backend, and better at generally designing a website's UX/UI. This opportunity has also taught me how to deploy a web application using Heroku as well as Netlify, which is an essential part of web development. This sums up my experience as to why I would highly recommend this opportunity to other colleagues.