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College of Computer and Information Sciences  
**Computer Science Department**

Course Title: Web Development

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Course Instructor: Dr. Fahman Ali

Project

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## Project Overview:

The Internship Helper is a robust, user-focused web application, meticulously designed to assist students in their quest for ideal internship opportunities. Recognizing the often daunting and time-consuming nature of the internship search process, we aimed to create an all-encompassing tool that simplifies the journey from job seeking to application.

Our platform facilitates an ecosystem where students can catalog their skills, specify their career interests, and find internships that best align with their individual profiles. Instead of manually trawling through countless internship listings across various platforms, students can find curated list of opportunities within The Internship Helper platform itself, saving them both time and effort.

One of the key features of The Internship Helper is its user-friendly design. The application provides a seamless navigation experience, starting with a welcoming home page that highlights the product's features and the ways to connect with us for further support. Users can swiftly create an account, providing necessary details like name, email, phone number, and password, and are guided to log in to access their personalized dashboard.

Upon logging in, users can view and edit their profiles. This isn't limited to just basic information - they can specify their preferred country of work, job interests, education, skills, desired positions, and more. This extensive customization allows us to provide a personalized user experience.

For the job search functionality, we've built an efficient search algorithm that filters through internship listings based on user preferences. Users can effortlessly scroll through these, gaining a clear understanding of what each internship entails. Once a suitable internship is found, users can apply directly through our platform, making the process uncomplicated and swift.

Lastly, we understand that user preferences and circumstances can change over time, so we've provided the option for users to update their profile details whenever needed. This ensures that the search results they get are always in line with their current preferences.



## Technology Stack:

- **Front-end:** HTML, CSS, and JavaScript are used to create a user-friendly and aesthetically pleasing interface.
- **Back-end:** Node.js and Express.js provide the backbone for the server-side operations, ensuring fast and secure data handling.
- **Database:** MongoDB database, is used for efficient data storage and retrieval.
- **Authentication:** User authentication is implemented on each page to ensure secure access and user privacy.



## User Interaction:

The user journey in the web-site follows a clear and simple path:

1. **Home Page:** Users can see profile page for our product, also user can see the ways to connect with us,
2. **Registration:** Users create their accounts, by input first and last name, email, password, and phone number.
3. **Sign-In:** Users log into their accounts, by input his email, and password.
4. **Profile:** Users see informations, including skills and preferences.
5. **Edite-Profile:** Users can modify their profile details such as name, mobile number, e-mail, the country in which you would like to work, the jobs you are interested in, education, skills, the positions you would like to work in, Country of residence, region/province, and experience.
6. **Job Search:** Users search for available internships, with results filtered based on their their search.
7. **Job Application:** Users can apply directly from the platform to the internships they are interested in.
8. **Profile Update:** Users can modify their profile details anytime.



## Database Schema:

The Internship Helper utilizes MongoDB, a NoSQL database, for storing and managing data. MongoDB is an excellent choice for this application due to its flexibility, scalability, and ability to handle a large volume of data efficiently.

The database schema has been designed to reflect the needs of our users and the requirements of our application. It consists of two primary collections:

1. **User Info Collection:** This collection contains comprehensive information about each user. The data is stored in a unstructured format that allows for efficient querying and updating. The schema includes:
  - **User Identification:** Unique identifiers for each user, which is by email.
  - **Authentication Info:** Information necessary for the user to access their account, including their email address and password.
  - **Personal Info:** Details about user, include first & last name, and phone num.
  - **Professional Info:** Detailed professional data that includes the user's skills, education, job interests, preferred country of work, desired positions, and country of residence and region/province.
2. **Job Post Data Collection:** This collection holds data about available internship opportunities. The schema ensures each job posting contains all necessary information for users to make an informed decision about their application.
  - **Job Identification:** Unique identifiers for each job post.
  - **Job Details:** Information about the internship, including company name, the job title, company name, city, state, and job url.

The design of database schema ensure that data for each user and job post is stored efficiently and can be accessed quickly. It allows for a smooth user experience when searching for job opportunity, applying for job, and updating personal info.

Furthermore, this database schema provides the necessary flexibility for future enhancements, such as adding more information to user profiles or including additional details in job postings. This foresight in the design ensures the long-term viability and scalability of the Internship Helper web.



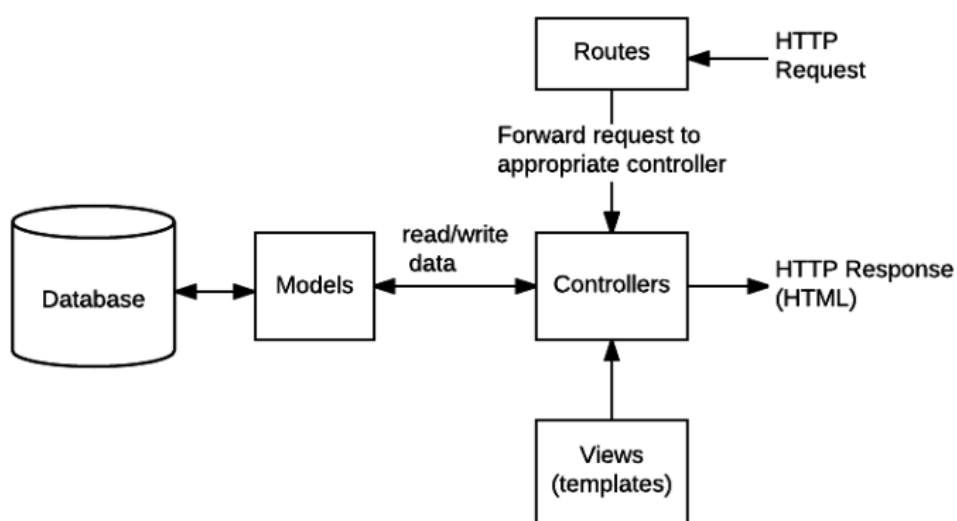
## CRUD:

User:

1. GET: member info
  - a. Name
  - b. Email
  - c. Phone
  - d. Password
  - e. Skills
  - f. Skills to work on
2. GET: user details: login information matching
3. POST: create member info
  - a. Name
  - b. Email
  - c. Phone
  - d. Password
  - e. Skills
  - f. Skills to work on
4. PUT: update member info

User Profile:

GET: member job application overview info (render chart)

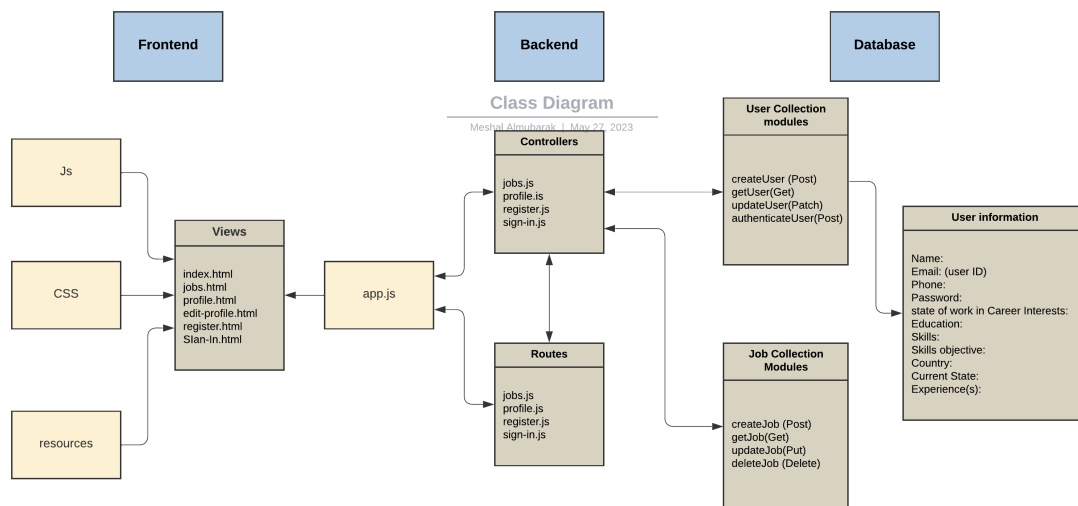




## Code Overview:

The application adheres to best practices in coding standards:

- **Modularity:** The application's codebase is separated into distinct files based on their functionality, ensuring code reusability and maintainability.
- **Object-Oriented Programming:** The JavaScript code follows the principles of OOP, which makes it easier to understand, modify, and debug.
- **Semantic HTML:** HTML is used semantically throughout the application, which improves accessibility and SEO.
- **CSS Styling:** CSS, along with Bootstrap, is used to create an appealing user interface.



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## Conclusion:

The Internship Helper web application embodies a strong commitment to assist students on their journey towards securing ideal internships. By incorporating a user-centric design and robust technology stack, we've successfully created a platform that simplifies the often daunting process of internship hunting. The application presents a seamless, comprehensive, and responsive solution for students to manage their internship search process more efficiently.

Our platform provides students with the tools they need to establish an effective digital presence, catalog their skills, and highlight their career interests. The detailed user profiles serve as a conduit between students and their potential employers, showcasing relevant skills and experiences. With the Job Search feature, we've replaced the time-consuming process of manually trawling through various internship listings with a curated list of opportunities that best align with users' profiles.

The Internship Helper also ensures a simple and efficient application process. By allowing users to apply directly through our platform, we remove the complexities and uncertainties usually associated with applying for internships. The user-friendly interface, coupled with the ability to update profile information at any time, enhances the user experience, ensuring the platform remains flexible and adaptable to users' changing needs.

The technological components of The Internship Helper, including the front-end technologies (HTML/CSS, JavaScript, and Bootstrap) and the back-end technologies (Node.js, Express.js, MongoDB), provide a solid foundation for an efficient, scalable, and reliable application.

Looking forward, we're excited about the potential of The Internship Helper to make a significant impact on the internship search process for students. Our vision is to continue developing and enhancing our platform, always ensuring it aligns with the evolving needs of our users. We're confident that through our commitment to improving user experiences and continuously integrating advanced features and functionalities, The Internship Helper will continue to be a crucial tool for students in their quest to find the perfect internship opportunities.