**Task Assignment & Roles**

**Team Members:**

* **Helmy El Nahas (Lead Front-End Developer)**
* **Mohamed Nader (Front-End Developer)**
* **Mohamed El Shshaht (Front-End Developer)**
* **Mahmoud Baligh (Front-End Developer)**
* **Zaid Emad (Front-End Developer)**

**Roles and Responsibilities:**

**1. Helmy El Nahas (Lead Front-End Developer):**

* Overseeing front-end development and ensuring code quality.
* Reviewing code and enforcing best practices.
* Optimizing overall front-end performance.
* Developing complex features such as filters and recommendation algorithms.
* Supporting the team with technical guidance when needed.

**2. Mohamed Nader (Front-End Developer):**

* Designing the user interface (UI) and user experience (UX).
* Creating wireframes and mockups.
* Developing a consistent style guide for colors, typography, and layouts.
* Enhancing user interactions and accessibility.
* Ensuring a fully responsive design across all devices.

**3. Mohamed El Shshaht (Front-End Developer):**

* Fetching and displaying movie data from APIs.
* Implementing efficient API request handling and state management.
* Managing API data flow and error handling.
* Optimizing API performance and caching strategies.
* Improving search and filtering functionality.

**4. Mahmoud Baligh (Front-End Developer):**

* Conducting unit testing to verify component functionality.
* Performing cross-browser and cross-device compatibility testing.
* Testing page load speed and optimizing performance.
* Identifying and debugging front-end issues.
* Documenting test results and providing improvement suggestions**.**

**5. Zaid Emad (Front-End Developer):**

* Setting up and managing the hosting and deployment process.
* Optimizing website performance through lazy loading and code splitting.
* Managing CSS and JavaScript file optimizations for faster loading.
* Enhancing performance for low-end devices and slow connections.
* Monitoring website performance after deployment and troubleshooting issues.

**Task Distribution:**

* **Planning Phase:**
  + Alice: Leads the planning process, defines scope, assigns tasks.
  + All: Contribute to research, API selection, and user story creation.
* **Design Phase:**
  + Bob: Leads UI/UX design, wireframing, and style guide creation.
  + Alice: Provides technical feedback on the design.
* **Development Phase:**
  + Alice: Oversees algorithm development and complex feature integration.
  + Charlie: Manages API integration and data flow.
  + All developers: contribute to the development of the frontend React components.
* **Testing Phase:**
  + David: Leads all testing activities and documentation.
  + All Developers: assist with testing and bug fixing.
* **Deployment Phase:**
  + Eve: Manages deployment, hosting setup, and documentation.
  + All: Participate in final testing and project review.