

## Technology Research for Pyralume

**Overview:** Pyralume is a film streaming app for filmmakers, fans, and film festivals. To improve the app's front-end, we need to use modern tools that make it easy to use, look great, and work well for everyone.

### Technologies for Front-End Development:

#### 1. Front-End Frameworks:

- **React.js:**
  - Why use it: Makes building interactive and responsive designs easier. Many developers use it, so help is always available.
- **Vue.js:**
  - Why use it: Lightweight and easy to use for creating flexible designs.

#### 2. UI Libraries and Design Tools:

- **Material-UI (MUI):** Ready-to-use design components that save time.
- **Tailwind CSS:** Lets you create custom designs quickly without needing to start from scratch.

#### 3. Accessibility Tools:

- **Axe DevTools:** Finds accessibility problems in the app.
- **WAI-ARIA:** Helps make the app more usable for people with disabilities.

#### 4. Prototyping Tools:

- **Figma:** A tool for creating and sharing app design drafts.
- **Adobe XD:** Another tool for designing and testing app layouts.

#### 5. Collaboration Tools:

- **GitHub:** Tracks code changes and allows team collaboration.
- **Netlify or GitHub Pages:** Platforms for testing and sharing app versions.

#### 6. Testing Tools:

- **Jest:** Checks if small parts of the app work correctly.
- **Cypress:** Ensures the app's workflows (like navigation) function properly.

#### 7. Performance Tools:

- **Lighthouse:** Checks how fast and accessible the app is.
- **Webpack:** Helps speed up and organize the app's code.

## 8. Device Testing:

- **BrowserStack:** Ensures the app works on all devices and browsers.