

Universidad Tecnológica de Tijuana

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January 2024

Homework

PWA Tools

0.1 Development and Execution Tools

Development and Design

- Visual Studio Code
- Chrome DevTools
- React, Angular, Vue.js

Testing

- Lighthouse
- Jest

Deployment and Hosting

- Firebase
- Netlify

0.2 PWA Installation Requirements

- **PWA Manifest:** The PWA must include a manifest file (manifest.json) with detailed information about the application.
- **Service Worker:** The PWA must register a Service Worker to enable offline functionality and manage caches.
- **HTTPS:** The PWA must be served over HTTPS to ensure the security of connections.
- **Application Icon:** An application icon must be provided for display on the device's home screen or taskbar.
- **meta Viewport Tag:** Include a meta viewport tag in the HTML to ensure proper display on mobile devices.
- **Compatible Browser:** Ensure that the browser used is compatible with PWAs (e.g., Google Chrome, Mozilla Firefox, Microsoft Edge).
- **Installation Permissions:** Users should have the option to install the PWA, typically through an installation banner.

0.3 What is the best environment for developing PWAs?

React with Create React App