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Experiment 11

Aim: To use google Lighthouse PWA Analysis Tool to test the PWA functioning. Theory:

Google Lighthouse audits PWAs for performance, accessibility, SEO, and PWA compliance. It provides improvement tips through scores and diagnostics.

Using Google Lighthouse for PWA Testing

Google Lighthouse is a free tool built into Chrome DevTools that audits web apps for performance, accessibility, SEO, and PWA compliance.

Steps to Test PWA Functionality:

1. Open Chrome DevTools

Right-click on the page \rightarrow Inspect \rightarrow Go to the "Lighthouse" tab.

2. Select Categories

Choose "Progressive Web App" along with other desired categories.

3. Run Audit

Click "Analyze page load". Lighthouse will generate a report.

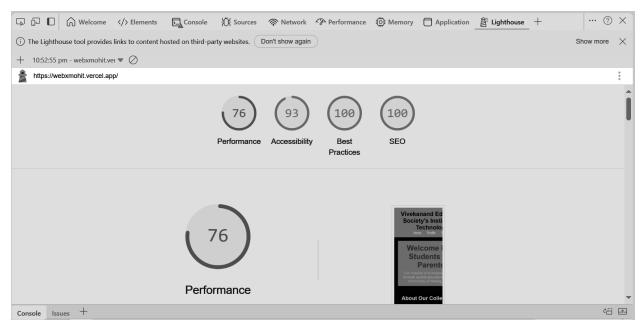
4. Review Results

Check PWA score and key metrics like installability, service worker usage, and offline support.

Benefits:

- Identifies missing PWA features.
- Offers improvement suggestions.
- Helps validate PWA readiness for deployment.

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Conclusion:

Lighthouse analysis helped ensure that our Society App met core PWA criteria and improved overall performance metrics.