Submission Summary

Conference Name

RECENT ADVANCES IN SUSTAINABLE ENGINEERING AND FUTURE TECHNOLOGIES

Paper ID

208

Paper Title

Codeforces Analyser using API Integration

Abstract

— Building universal apps based on feature-rich web Application Programming Interfaces (APIs) makes a progressive web application (PWA) an appealing choice. Although flexible, these large APIs invariably result in a notable increase in the attack surface of the API, which typically relates to a functionality that the application neither needs nor wants. Programmatically eliminating unnecessary features from an application is known as software debloating, and it is a potentially effective way to lower the API attack surface.A progressive web application (PWA) is a preferable substitute when developing universal apps with feature-rich web Application Programming Interfaces (APIs). While accommodating, these big APIs frequently lead to a noticeable increase in the attack surface of the API, usually related to a functionality that the application doesn't need or want. One possible solution to reduce the API attack surface is software debloating, which is deleting unnecessary functionality from an application programmatically. Unfortunately, debloating PWAs is challenging due to the monolithic structure and nondeterministic execution of a modern web browser. In this work, we present DeView, a practical solution that reduces the attack surface of a PWA by blocking web APIs that are available but unnecessary.

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Submission Files

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