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**Title:**

An automated approach for detecting and repairing cross browser compatibility issues on Android apps

**Supervisors:**

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**Abstract:**

This project examines on CBC (“cross-browser-compatibility”) only for Android apps (for example; Webview) and also examines potential solutions for this issue. By conducting this research, legacy system and modern system can be easily integrated without effecting existing business logic.

There are two phases of this project:

1) Identify all possible CBC issues

a. Collect all possible crashes by stimulating system

b. Capture all possible observable screen level differences by comparing consecutive occurrences

c. Categorize outcomes based on response features within Android Activity lifecycle and passing data to other systems

2) Provide solution in non-technical way to user

a. Conduct automated interactive intelligent tutoring

b. Select the best solution using data driven approach