**ADR 2: Selection of UI framework**

**Context**

Team needs to choose UI framework for developing the user interface for the mobile application for transportation company. We need to consider factors such as development efficiency, cross-platform compatibility and flexibility in design. The selected UI framework should be able to provide tools for building responsive user interfaces and it should support app development for both android and iOS.

**Decision**

Team will be using react native as the UI framework as it is compatible for both android and iOS.

**Rationale**

React native is a popular UI framework that allows for efficient development of cross-platform mobile applications. It also offers rich set of components and tools that are essential for building responsive user interface.

React native enables us to write code that can deployed across multiple platforms, including android and iOS. The reduces development time and efforts required to maintain the mobile application.

**Rejected Alternatives**

**Native development**: while native development provides optimal performance and specific features but requires different codes for android and iOS which increases development time and complexity.

**Hybrid frameworks:** Hybrid frameworks offer cross-platform compatibility but has issues in accessing native features compared to React Native.

**Status**

Accepted

**Consequences**

**Efficient development and Cross-platform compatibility:** As react native is compatible with both android and iOS it allows rapid development reducing development time and efforts. It also ensures consistency across various platforms and reduced maintenance time.

**Rich UI Components:** React native provides a rich set of UI tools required for building a responsive and visually appealing user interface, enhancing overall experience.

**Community Support:** React Native has many users, providing access to a large number of resources, tutorials helping in ongoing development and maintenance efforts