# ADR

(Done as a group)

**Title:**

Type of Application

**Context + Problem Statement:**

There will be a wide range of users, there should be cross-platform compatibility.

**Decision Driver:**

To allow an increase in users, and for them to be able to access the application on different devices.

**Option:**

Web-based application, mobile application, progressive web app and desktop application.

**Considered Options:**

Web-based application, mobile application and progressive web app.

**Decision Outcomes:**

Chosen option: web-based application, because more compatible with cross-platform usage and increases scalability and usability. (more users-admins would use in person)

**Consequences:**

Good, because there will be an increase in users.

Good, because it improves user experience.

Bad, because some features are more mobile-friendly (in-person features e.g. borrowing in person using a QR Code).

Bad, because internet connection is required for web-based applications, limiting user access at times.

**Confirmation:**

After confirming the architecture.

**Pros and Cons:**

Pros: increases scalability, and user experience.

Cons: offline access is limited and web applications may be harder to navigate.