

# Architecture Decision Record: Vue front-end JavaScript library

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Date: [Date of decision]

Status: [Draft/Final/Postponed/Cancelled]

Subject: Architecture Decision Record for Vue front-end JavaScript library

## Context

Our web application requires a front-end JavaScript library to provide dynamic and responsive user interfaces. We have evaluated several popular libraries that include React, Angular, and Vue. Based on the evaluation, we have decided to use the Vue library as the primary front-end library for our web application.

## Decision

We have decided to adopt the Vue front-end JavaScript library based on the following factors:

1. **Lightweight:** Vue is a lightweight library that offers functionality similar to that of React and Angular but with a smaller code footprint.
2. **Easy to learn:** Vue has a simple and intuitive API that makes it easy to learn and use.
3. **Flexibility:** Vue is a flexible library that works well with other libraries or frameworks to provide different functionalities.
4. **Performance:** Vue provides excellent performance with fast rendering and minimal overhead.
5. **Strong community:** Vue has a growing and strong community that offers support and resources to the users.

## Consequences

The decision to use Vue as the primary front-end JavaScript library will have the following consequences:

1. Development and maintenance will be faster and easier because of the simplicity and flexibility of Vue.
2. Team members who are new to Vue can easily learn and use it because of its simple and intuitive API.
3. Integration with other libraries or frameworks will be easier because of the flexibility of Vue.
4. The application will have better performance and responsiveness with faster rendering and minimal overhead.
5. The team will have access to a growing and strong community that offers support and resources for Vue.

## Conclusion

Based on the evaluation and the above factors, we have decided to use Vue as the primary front-end JavaScript library for our web application. This decision will provide us with the benefits of simplicity, flexibility, performance, and support from a growing and strong community.

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