# Introduction

The purpose of this report is to outline the development process undertake to deploy a functional public-facing web application for a fictional sporting organisation named the Penguins Basketball Club. The requirements as outlined by the Penguins organisation is to develop a single-page application (SPA) that will function as the team’s primary resource to communicate with all stakeholders. This report will outline the methodology undertaken to develop, test and deploy the web application and conclude with a reflection on the development process.

# Methodology

## Code

The application was built using React, a JavaScript library for building user interfaces.

The components used in the application include the following:

**Navigation**

**Home Page**

**Schedule**

**Roster**

**Standings**

**Community**

**Gallery**

**Contact**

**Footer**

React was used due to its modular architecture that allows for enhanced flexibility in the application's structure in addition to its ease of maintenance.

### Installed Packages

## Version Control

To manage version control, Git was used, a distributed version control system. Git allows for collaborative development and tracking of changes made to the codebase. The code was hosted on a GitHub repository, allowing for easy sharing of the codebase with other developers working on the project.

## Deployment

To ensure the application was functioning as intended, a testing framework was used to write unit and integration tests for the codebase

This ensured that any code changes were tested before they were merged into the codebase, reducing the risk of introducing bugs or errors. Overall, testing played a critical role in ensuring the application was stable and reliable for users.

# Reflection

Advanced JS

React and Version Control

Advanced React

Testing

# References

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