

**JavaScript:**

- JavaScript is one of three World Wide Web's most used technologies.
- Has powerful form validation functionality which makes up large portion of our party organiser.
- Any dynamic form content needed can be built with JavaScript and can even add the extra layer of jQuery to leverage this functionality.
- JavaScript allows for Object Oriented design, allowing us to use OOP design patterns if we need to.
- Allows for the use of Ajax in our web application.
- Due to its popularity in web development, JavaScript is a great choice because there exists an abundance of documentation, libraries and support for development.

**PHP:**

- PHP easily integrates with JavaScript and is easy to use in conjunction with MySQL.
- Has many choices for frameworks and dependency management tools.
- Plenty of resources online due to its widespread use.

**MySQL:**

- MySQL is free to use and open source and should therefore have a great deal of documentation and support available.
- MySQL is highly scalable, as it is able to create footprints a fraction of the size of the data warehouse so as little memory as possible is used.
- MySQL is highly pliable with PHP.
- Has fast data insert capabilities and support for other customized web functions.
- Has security features ensuring data protection. SSH and SSL support provided for secure connections.

**Laravel:**

- Laravel makes communication between the web app and the database tiers easy to maintain.
- Modular design allows us to pick and choose features, making our application more lightweight.
- Abundance of tutorials, documentation and PHP community support.
- Actively maintained and integrates with Composer, our chosen dependency management tool.
- Provides a user authentication interface, saving implementation time.
- Built-in support for sending emails.
- Provides functionality for database seeding. Useful for creating duplicate database tables for testing.

**Composer:**

- Dependency management tool designed for PHP.
- Automatically handles dependency of your project once properly configured.
- Modular, which allows us to pull down packages as we need them.
- Extensive library of PHP code available through composer, saving us time implementing some of our required functionality.
- Has a proven track record of working with the Laravel framework.

**Fitness:**

- Allows us to write tests for our application easily and without a steep learning curve.
- Built on a wiki model, which provides a platform for collaborating and sharing during application development.

**Jenkins:**

- Provides integration with git repositories
- Provides a plugin for working with Fitness testing
- Simple setup for running Jenkins server locally
- Provides integration with Composer dependency management
- Extensive wiki and documentation on the Jenkins Continuous Integration tool