

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 it's 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.
- PHP is easy to use in conjunction with MySQL.
- Has many choices for frameworks and dependency management tools.
- Plenty of resources online due to it's widespread use.

MySQL:

- MySQL is free to use.
- MySQL is open source and should therefore have a great deal of documentation and support available.
- PHP 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 are provided for secure connections.

Laravel:

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

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.