THE LIBRARY

Rationale

By

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**1 RATIONALE**

This is a rationale for a library website project for Interactive Development 301 in which any chosen technologies could be used. I chose to use newer technologies like AngularJS, NodeJS and ExpressJS. This rationale will explain and elaborate on the design and development choice I made before starting and during the project.

**1.1 Technologies**

I was inspired to use newer technologies in my project like NodeJS and ExpressJS rather than Apache and PHP. I have been familiar with the traditional LAMP stack for quite a while and wanted to start learning the newer and improved MEAN stack, consisting of MongoDB, ExpressJS, AngularJS and NodeJS. Although I first wanted to use MongoDB and the database layer for the project, it turned out to be a bit tricky. I was limited by time and knowledge so I chose to replace MongoDB with MySQL and then in sense making it a M\*EAN stack application.

AnuglarJS is a front-end library written by the developers at Google. AngularJS extends the capabilities of HTML to make it easy to develop application quickly and effectively. NodeJS is a new platform built on Javascript and ExpressJS is a NodeJS framework used to write Node applications.

With in my Node development environment I setup a server using Express. Express also handles the routes of the application too serve both the front-end of the application as well as the API side. Using Express I connect to a local MySQL database and translate the data into JSON to be display on the API route ( /api/v1/… ). Express also handles the route for the front-end application on the root directory and serves the AngularJS application.