Martial Arts Gym Information Tracking System (MAGITS)

Technology Requirements

Version 1.0

25 November, 2019

Technology Requirements

It is assumed in this learning plan that the team has successfully passed FullStack Course with MEAN Stack and will therefore further build on that knowledge on this learning plan for Capstone II.

Learning Plan

Start Date	End Date	Resource	Team Members
Dec. 17, 2019	**Dec.20,2019**	**Web Qr Scanner Implementation**	**Yang, Maria Lilian Naguit, Sir Angel**
Dec. 17, 2019	**Dec.20,2019**	**AngularJS User Login Authentication**	**Jacildo, Aldrin Victa, Francis**
Dec. 17, 2019	**Dec.20,2019**	**Sending Mail through Mean Stack**	**Jacildo, Aldrin Naguit, Sir Angel**
Dec. 23, 2019	**Dec. 27,2019**	**Angular Material Forms with MongoDB and AngularJS**	**Yang, Maria Lilian Naguit, Sir Angel Victa, Francis**

Technologies

Resource	Reasoning
Database: mongoDB with Mongoose	To implement a data store that provides high performance, high availability, and automatic scaling.
Programming Language: TypeScript, Javascript	Typescript is the primary language where Angular is built from and therefore using it will greatly help us in understanding and using the Angular framework. Javascript is used in the backend. Although we are using Express as a back-end framework, it is also good to have understanding with javascript just in case it is needed.
Runtime Environment: Node	The Node environment has the capability to import modules such as a QR code scanning module that can be used in the project. It eases the developer's workload and frees up their time to execute more tasks at hand to increase productivity.
Frontend Framework: AngularJS	Angular helps focus on code reuse by utilizing APIs that are already available rather than having to recreate a code. This will greatly help us build a web application faster given a short span of time.
Backend Framework: Express	Express is a Node.js framework that will be utilized within the backend component of the project. It promotes simplicity, scalability and flexibility. It will also be used in tandem with MongoDB.
Web Host: Heroku	A cloud platform service that will enable deployment of web projects to the internet. The platform has been encountered and used in projects by the developers a couple of times thus leading to the decision of using it as a web host.
Hardware: Mobile Phone, Laptop, Mobile Phone and Laptop Camera, PC	Essential hardware to be used during the development of the project.
Coding Environment: Visual Studio Code	A free code editor that is widely used by other developers. It has great support for Node.js, HTML, CSS, SCSS and Git.
Repository: Github	Makes collaboration on a project easier by keeping track of all the changes that have been pushed to the repository.