BRIDGELABZ VUEJS WEBAPPS DEVELOPMENT PLAN

Stages - OOP, TDD Web Programming, FrontEnd Development (HTML), Advance FrontEnd Development (VueJS), Project Simulation Stage

Fellowship Part	Num of Days	Fellowship Stage	Concept Introduction	Functionality Developed
Web Programming	22	Web Programming Foundation & TDD	**JS Programming: REPL, Data Types, Basic Programming Constructs, Array and Map Data Structures. Array functions like forEach, filter, map, reduce, Arrow Functions, Objects, Classes, Exception handling, Patterns, Git Practices with PR process**	**Employee Wage -** Practice all JS progamming constructs through this problem Additional Practice Problems. All code developed should be in GIT and to be practiced on daily basis
			HTML5, CSS3, DOM, Forms, Flexbox, Media queries	**HTML Hello Page -** Intro Page and Web Page Layout done in class Sample Website Layout, Photo Gallery Layout, List Card Layouts, Media Object Layout
			Async, CallBack, Promises, AJAX ES6 Features Client Server Architecture, PostMan, Json, Curl, Swagger Mocha & Chai	**Learning Problem in Live Class - Employee Payroll App :** Develop an application that maintains the Employee Payroll Data. Ability to develop screens based on XD Design using HTML5, CS, JS, ES6, AJAX Promise with JSONServer. Ability to perform validation rules using RegEx, avoid duplicate Entries as well as search and sort operations on the employee payroll data. **Practice Problem - Address Book Problem :** Ability to add, edit, delete a new Person to Address Book, add multiple person to Address Book, avoid Duplicate Entry of the same Person in the Address Book - Duplicate, sort and search the person with various criteria. Ability to develop screens based on XD Design using HTML5, CS, JS, ES6, AJAX Promise with JSONServer.
Web Programming	**2**	**Workshop**	**Day Long Workshop on a problem given to ensure the skills learned are being applied.**	
Backend Programming	5	NodeJS Intro	**Node.js, Express.js, NoSQL DB - MongoDB Web API, Postman, Swagger, Logger, Test Cases using Mocha & Chai Mongoose, Middlewares**	**Learning Problem -** Setup Express.js server with database connection, making sure the configuration as well **Develop fundooNotes APIs, (Note Keeping application like Google Keep) Develop User Login APIs, Registration APIs, Forgot Password APIs, Reset Password APIs for fundooNotes, Notes CRUD APIs**
Backend Programming	**1**	**Workshop**	**Day Long Workshop on a problem given to ensure the skills learned are being applied.**	
New Language Programming	6	Typescript Intro	**TypeScript - OO Programming using TS, Types, Classes, Interface, Access Modifiers, Decorators, Exception Handlings, Logging, File IO, Source Control Management with Coding Standards**	**Employee Wage -** Solve the Address Book Problem using Typescript
New Language Programming	**1**	**Workshop**	**Day Long Workshop on a problem given to ensure the skills learned are being applied.**	