Weekly Progress Report

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Domain: Full Stack Development

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Week Ending: 04

This week, the primary focus was on understanding Full Stack Development. A stack refers to all of the components needed to run an application. Additionally, efforts were made to leverage learning resources for skill enhancement.

1. **Front End Development**
   - HTML
   - CSS
   - Java Script (Scripting Language)
2. **Back End Development**
   - JavaScript
   - PHP
   - Ruby
   - Python
   - Relational (Oracle, SQL Server, PostgreSQL, MySQL)
   - Non-relational (Mongo, Oracle, Couchbase)
3. **Frameworks**
   - Libraries like jQuery are extremely popular for front-end developers using JavaScript
   - JavaScript frameworks like AngularJS and Ember JS solve many of the challenges faced by front end developers

- On the backend, there are frameworks like Express for Node.js (JavaScript)

4. **The MEAN Stack**

The term MEAN stack refers to :

- MongoDB
- Express
- AngularJS
- Node.js

III. Challenges faced with Full Stack Development:

- rapid technological changes
- cross-platform compatibility
- mastering front-end and back-end paradigms.

IV. Learning Resources:

USC_TIA Documentation:

- Utilized USC_TIA official documentation for reference and troubleshooting.
- Attended relevant webinars and online tutorials to deepen understanding.

V. Additional Comments:

Learnt a lot from this week 4 module about Full Stack Development through this opportunity.