**Summer Field Training Plan**

**Grade:** 2

**Duration:** 20 days

**Hours per day:** 5 hours

**Start Date:** 2/6/2024

**Expected End Date:** 11/7/2024

**Objective:** Build a full stack project using Asp.Net core and EF core

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| **Topics** | **Expected Hours** |
| **LO1:** Introduction into ASP.NET MVC Building Blocks | **5** |
| * Asp.Net MVC course Syllabus * MVC architecture pattern * Create empty project * Publish to GitHub * MVC file structure * Start eCommerce application project | |
| **LO2:** Models & Entity Framework Core (Code-First approach) | **15** |
| * App models overview * Adding models (Actors, Producer, Cinema, Movie) * Adding DB context file * Adding relationship model * Configure SQL server * Adding first migration * Database seeding | |
| **LO3:** Controllers | **20** |
| * Application controller overview * Adding controllers’ files (Actors, Producer, Cinema, Movie). | |
| **LO4:** Views | **30** |
| * Adding views (Actors, Producer, Cinema, Movie). * Designing the Movie card. * Designing the navigation bar. * Adding not fount view | |
| **LO5:** Build Restful Services (CRUD operations with entity framework core) | **15** |
| * Add actor service * Model validation * Get item by ID * Update data in database * Delete data in database * Add Sync () method | |
| **LO6:** Repository Pattern to Access Database (optional) | **15** |
| * Modify the project to use repository pattern * Use layered architecture | |