KIDS & TEENS FREELANCING TRAINING INSTITUTE

APPML Course Outline

Module 1: Introduction to APPML

- What is APPML and what it stands for (Application Modeling Language)
- Real-life example: Planning a shopping app before building it
- Why APPML is helpful for managing web app data
- How APPML fits between HTML, JavaScript, and the database
- Activity: See a simple APPML example in action

Module 2: Setting Up APPML

- How to add APPML to your project
- Real-life example: Plugging in a "ready-to-go" engine
- Linking the APPML JavaScript file and initializing
- Understanding the basics of `<appml-data>` tags
- Activity: Set up your first APPML-powered page

Module 3: Understanding APPML Data Models

- What is a data model in APPML?
- Real-life example: Organizing a class list with names, ages, grades
- How APPML structures your application around models
- Creating a simple JSON data model
- Activity: Write a basic model for a to-do list

Module 4: Displaying Data with APPML

- Showing your data automatically on the webpage
- Real-life example: Displaying a list of products without coding each one

- Using `{{placeholders}}` to bind data into HTML
- How APPML updates your page when data changes
- Activity: Display a table of students using APPML

Module 5: Adding New Data Dynamically

- How to add, update, and delete data easily
- Real-life example: Managing an online cart with live updates
- Using `appml-controller` to manage actions
- How APPML connects frontend actions to backend easily
- Activity: Build a mini contact form that adds people to a list

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Module 6: Filtering and Searching with APPML

- How to search through data quickly
- Real-life example: Searching a recipe website live
- Using `appml-filter` for smart filtering
- Creating dynamic searches without complicated code
- Activity: Create a search bar for your list of books

Module 7: Working with External Data Sources

- Loading external JSON, databases, or APIs into APPML
- Real-life example: Displaying live sports scores
- How APPML can connect to real servers and databases
- Understanding simple server setup for APPML
- Activity: Load sample external data into your project

Module 8: Final Project – Build a Data-Driven App with APPML

- Combining everything learned into a real web app
- Real-life example: A live event registration page
- How to organize models, filters, and updates cleanly
- Activity: Build and present your live APPML app to your friends/family

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Bonus Materials

- APPML syntax cheat sheet
- Quick project ideas using APPML
- Mini-challenges: Build a product listing page
- Best practices for scalable APPML apps
- Certificate of Completion for APPML Basics