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March 11th, 2024

Internet and Web Programming (CISC-3300-R01)

Fordham University

**Homework 7**

1. See MAMP.png
2. **Similarities and Differences Between PHP and JavaScript**:
   1. Similarities:
      1. Both can be embedded in HTML.
      2. They follow similar programming paradigms and syntax structures (e.g., if statements, loops, functions).
      3. They are dynamically typed, meaning variables do not have to be declared with a data type.
      4. They support various data types like strings, integers, arrays, and objects.
   2. Differences:
      1. PHP is a server-side scripting language, while JavaScript can be used on both the client-side and server-side (with environments like Node.js).
      2. PHP is used mainly for server-side operations like accessing databases, while JavaScript is primarily used for creating interactive front-end applications.
      3. JavaScript has event-based programming features which PHP lacks.
      4. PHP has a different set of built-in functions and is generally used in combination with a web server like Apache or Nginx.
3. **MVC (Model-View-Controller) and Responsibilities**:
   1. **Model**: The Model represents the data structure, usually a database. It directly manages the data, logic, and rules of the application.
      1. Responsibilities: Data retrieval, data storage, data validation, and data representation logic.
   2. **View**: The View is the visual representation of the data from the Model. It displays data from the model to the user and also sends user commands to the Controller.
      1. Responsibilities: Presentation of data, generation of output representation, and interaction with the user through forms and controls.
   3. **Controller**: The Controller responds to the user input and performs interactions on the data model objects. It receives input from users via the View, processes the user's data with the help of Model, and returns the result back to the View.
      1. Responsibilities: Handling user input, application logic, interacting with the Model, and selecting Views for presentation.
4. In repository