Rohit Roy

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Internet and Web Programming (CISC-3300-R01)

Fordham University

**Homework 6**

1. HTTP stands for Hypertext Transfer Protocol. It's a protocol used by the World Wide Web that defines how messages are formatted and transmitted, and what actions web servers and browsers should take in response to various commands.
   1. The different HTTP request methods include:
      1. **GET**: Requests data from a specified resource.
      2. **POST**: Submits data to be processed to a specified resource.
      3. **PUT**: Updates a specified resource with the data provided.
      4. **DELETE**: Deletes a specified resource.
      5. **HEAD**: Similar to GET, but asks for the response without the body.
      6. **OPTIONS**: Returns the HTTP methods that the server supports.
      7. **PATCH**: Applies partial modifications to a resource.
2. An API, or Application Programming Interface, is a set of definitions and protocols for building and integrating application software. It allows different software programs to communicate with each other. JSON, or JavaScript Object Notation, is a lightweight data-interchange format that is easy for humans to read and write, and easy for machines to parse and generate. It's based on a subset of the JavaScript language and is commonly used for transmitting data in web applications.
3. AJAX stands for Asynchronous JavaScript and XML. It's a set of web development techniques using many web technologies on the client-side to create asynchronous web applications. With AJAX, web applications can send and retrieve data from a server asynchronously (in the background) without interfering with the display and behavior of the existing page. Asynchronous code refers to operations that occur without blocking the execution of further operations. This means the program can continue running and doesn’t need to wait for the asynchronous task to complete. It's often used in contexts where operations might take some time to finish, like web requests, file operations, or timers.
5. See hw6\_api.html