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CPE 408 - CPE43S1	6/23/25

1. What is API and what is it used for?
  - API is a set of rules that allows software applications to communicate, sharing data and functionality for integration and extension.
2. Why is API needed in Web Development?
  - APIs enable websites to fetch and send data to servers, making applications dynamic and allowing integration with external services.
3. What is REST API and how does it enable the developer to make a full stack website?
  - A REST API uses HTTP methods for data exchange, allowing the frontend and backend to communicate seamlessly, supporting full-stack development by separating concerns.
4. How do you handle common tasks like **passing data** between frontend and backend, **handling errors**, and **ensuring proper CORS** configuration?
  - In web development, data is passed between frontend and backend using HTTP requests with JSON for consistency. Errors are handled with try-catch blocks and proper HTTP status codes to provide clear messages. CORS is configured by setting headers like Access-Control-Allow-Origin to allow secure communication between trusted sources.