

API Design Assignment - Downloadable Resource Assignment Title: API Design Fundamentals

Assignment Description: In this assignment, you will learn the core principles behind designing clean, scalable APIs. You will study REST methods, status codes, and best practices for structuring request and response bodies. You must complete the quiz questions and write a short explanation of what makes an API well-designed. Quiz Questions (Multiple Choice) 1. What is the main goal of good API design?

- A) Make endpoints return maximum data
- B) Ensure the API is efficient, maintainable, and scalable
- C) Use only GET requests
- D) Avoid all status codes

2. Which HTTP method is used for creating a new resource?

- A) GET
- B) POST
- C) PUT
- D) DELETE

3. What does status code 201 represent?

- A) Bad Request
- B) Created
- C) Not Found
- D) OK

4. What is a key advantage of GraphQL over REST?

- A) More round trips
- B) Ask for exactly the required data
- C) Less structure
- D) Requires no authentication

5. What is a good practice for error responses?

- A) Always return 200
- B) No error details
- C) Structured JSON with message, code, and details
- D) Use HTML error pages

End of Resource