Restful API & Flask

Assignment Questions

Restful API & Flask

1. What is a RESTful API?
2. Explain the concept of API specification.
3. What is Flask, and why is it popular for building APIs?
4. What is routing in Flask?
5. How do you create a simple Flask application?
6. What are HTTP methods used in RESTful APIs?
7. What is the purpose of the @app.route() decorator in Flask?
8. What is the difference between GET and POST HTTP methods?
9. How do you handle errors in Flask APIs?
10. How do you connect Flask to a SQL database?
11. What is the role of Flask-SQLAlchemy?
12. What are Flask blueprints, and how are they useful?
13. What is the purpose of Flask's request object?
14. How do you create a RESTful API endpoint using Flask?
15. What is the purpose of Flask's jsonify() function?
16. Explain Flask's url_for() function.
17. How does Flask handle static files (CSS, JavaScript, etc.)?
18. What is an API specification, and how does it help in building a Flask API?
19. What are HTTP status codes, and why are they important in a Flask API?
20. How do you handle POST requests in Flask?
21. How would you secure a Flask API?
22. What is the significance of the Flask-RESTful extension?
23. What is the role of Flask's session object?

Practical

1. How do you create a basic Flask application?
2. How do you serve static files like images or CSS in Flask?
3. How do you define different routes with different HTTP methods in Flask?
4. How do you render HTML templates in Flask?
5. How can you generate URLs for routes in Flask using url_for?
6. How do you handle forms in Flask?
7. How can you validate form data in Flask?
8. How do you manage sessions in Flask?
9. How do you redirect to a different route in Flask?
10. How do you handle errors in Flask (e.g., 404)?
11. How do you structure a Flask app using Blueprints?
12. How do you define a custom Jinja filter in Flask?
13. How can you redirect with query parameters in Flask?
14. How do you return JSON responses in Flask?
15. How do you capture URL parameters in Flask?