

Flask - Interview Sheet

WSGI, Blueprints, application context, and extension ecosystem

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Top 10 Interview Questions

Q1. What is Flask and how does it handle requests as a WSGI application?

Answer:

Q2. Explain Flask's application factory pattern and why it is preferred over module-level app creation.

Answer:

Q3. How does Flask's routing work? Explain `@app.route`, variable rules, and Blueprints for modularization.

Answer:

Q4. What is Flask-SQLAlchemy and how does it manage the database session lifecycle per request?

Answer:

Q5. Explain Flask's request context and application context. What goes in `g`, `current_app`, and `request`?

Answer:

Q6. How does Flask-Login handle session-based authentication and protect routes with `@login_required`?

Answer:

Q7. How do you build a JSON API in Flask using `jsonify`, or with Flask-RESTful/Flask-RESTX?

Answer:

Q8. How do you handle file uploads in Flask and what validation should you perform on uploaded files?

Answer:

Q9. How do you integrate Flask with Celery for background task processing?

Answer:

Q10. How do you write unit tests for Flask views using the Flask test client and `pytest` fixtures?

Answer: