Django Interview Examination

Total Marks: 100
Duration: 1 hour
Submission Deadline: Same Day

Instructions

- Answer all questions clearly and concisely.
- Document your answers, providing explanations where necessary.
- Save your document as: `[Student Name] - Django Interview Exam –
  [Date]-06`.

Part 1: Self-Introduction (10 marks)

Question 1: Tell Me About Yourself (10 marks)

- Structure your response using the Present-Past-Future framework.
- Discuss your current role, past experiences, and future aspirations in relation to Django.

Part 2: Technical Questions (60 marks)

Question 2: What is Django? (5 marks)

- Provide a brief overview of Django and its purpose.

Question 3: Explain the MVT architecture in Django. (5 marks)

- Describe the components of the MVT architecture.

Question 4: What are migrations, and why are they important? (5 marks)

- Explain what migrations are and their role in Django.

Question 5: How do you create a view in Django? (5 marks)

- Describe the process of creating a view and give an example.

Question 6: What is a Django model? (5 marks)

- Define a Django model and explain its purpose.

Question 7: How does Django handle user authentication? (5 marks)

- Discuss the built-in authentication features provided by Django.

Question 8: What is middleware in Django? (5 marks)

- Explain what middleware is and how it is used in a Django project.

Question 9: What is the purpose of the `settings.py` file? (5 marks)

- Describe the role of the `settings.py` file in a Django project.

Question 10: How can you optimize a Django application for performance? (5 marks)

- Provide strategies for improving the performance of a Django application.

Question 11: Explain how to implement a RESTful API in Django. (5 marks)

- Briefly outline the steps to create a RESTful API using Django.

Part 3: Practical Task (30 marks)

Question 12: Create a Simple Django Model (15 marks)

- Write the code for a simple Django model (e.g., a Task model with title and description fields).

Question 13: Write a Django View (15 marks)

- Write a view function that retrieves all instances of the model you created in Question 12 and returns them as a JSON response.

Submission Requirements

- Ensure all answers are documented clearly.
- Submit your completed exam document by the deadline.

Evaluation Criteria

Your exam will be evaluated based on clarity of answers, technical accuracy, and the practicality of the code provided.