

# Advanced Django Examination

**Total Marks:** 100

**Duration:** 2 hours

**Submission Deadline:** Same Day

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## Instructions

- Complete all sections of the exam.
  - Document your answers clearly, including screenshots where applicable.
  - Save the document as: [Student Name] - Django Basics - [Date] - Exam 03.
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## Section A: Multiple Choice Questions (20 marks)

**Instructions:** Circle the correct answer.

1. What command is used to create a new Django project?
  - a) `django-admin startproject [project_name]`
  - b) `django-admin newproject [project_name]`
  - c) `django create project [project_name]`
  - d) `startproject [project_name]`
2. What file is used to configure a Django project's settings?
  - a) `urls.py`
  - b) `settings.py`
  - c) `views.py`
  - d) `manage.py`
3. Which command is used to start the Django development server?
  - a) `python manage.py runserver`
  - b) `django-admin startserver`
  - c) `python runserver`
  - d) `django runserver`
4. What is the purpose of the `urls.py` file?
  - a) To define models
  - b) To configure views
  - c) To manage URL routing
  - d) To set up database connections
5. Which of the following is a valid way to create a model in Django?
  - a) `class ModelName(models.Model):`
  - b) `def ModelName(models.Model):`

- c) `model modelName:`
  - d) `class modelName:`
6. What command is used to create a new Django app?
    - a) `django-admin startapp [app_name]`
    - b) `python manage.py newapp [app_name]`
    - c) `django-admin createapp [app_name]`
    - d) `python createapp [app_name]`
  7. Which database does Django use by default?
    - a) PostgreSQL
    - b) MySQL
    - c) SQLite
    - d) Oracle
  8. How do you define a field in a Django model?
    - a) By assigning a variable
    - b) By using a specific data type like `CharField`
    - c) By creating a method
    - d) By importing from `views.py`
  9. What is the purpose of the `STATIC_URL` setting in Django?
    - a) To define the base URL for serving static files
    - b) To specify the URL for database access
    - c) To set the URL for API endpoints
    - d) To define the URL for the admin interface
  10. How can you create a superuser in Django?
    - a) `python manage.py createsuperuser`
    - b) `django-admin createuser`
    - c) `python manage.py adminuser`
    - d) `django-admin createsuperuser`
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## Section B: Short Answer Questions (30 marks)

1. Explain what a Django view is and its role in a web application. (5 marks)  
**Answer:**
2. Describe the purpose of Django models and how they relate to the database. (5 marks)  
**Answer:**
3. What are Django templates, and how are they used in a project? (5 marks)  
**Answer:**
4. What is the purpose of the `settings.py` file in a Django project? (5 marks)  
**Answer:**
5. How do you create a new migration after adding a model in Django? (5 marks)  
**Answer:**

6. **Explain the purpose of the manage.py file in a Django project. (5 marks)**

**Answer:**

7. **What is a QuerySet in Django? (5 marks)**

Describe what a QuerySet is and how it is used to interact with the database.

**Answer:**

8. **Explain how to handle static files in a Django project. (5 marks)**

Describe the steps and settings involved.

**Answer:**

9. **What are forms in Django, and how do they facilitate user input? (5 marks)**

Explain the purpose of forms and how they are implemented.

**Answer:**

10. **How can you implement user authentication in Django? (5 marks)**

Describe the process and components involved in user authentication.

**Answer:**

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## **Submission**

Make sure all sections are completed and all screenshots are included. Submit your document by the end of the exam.

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**Good luck!**