

1. Suppose you're in an interview. The interviewer gives you their company's website as an example, asking you to convert the website and its different parts into Django terms. How would you proceed? For this question, you can think about your dream company and look at their website for reference.

If I were given a company's website to convert into Django terms, I'd start by breaking down the website into its main functional components. If the company has a product page, I would create a products app. This app will manage product listings, details, pricing, and other related actions. It would have models for product data, views to list and detail each product, and templates to render these views. By dividing the website into smaller, manageable apps, each focusing on a specific part of the site, it makes the project modular and easier to maintain. Each app can be developed and tested independently, which is a major advantage of Django's design.

2. In your own words, describe the steps you would take to deploy a basic Django application locally on your system.

First, I would set up a Python virtual environment to keep dependencies isolated. I will use commands like `"python -m venv venv"` to create the environment and `"source venv/bin/activate"` to activate it. Then, I would make sure I installed Django to create a new Django project by running `"django-admin startproject"`. Next, I would ensure everything is working and start to run the server. Once everything is well prepared, I'd create the app by using `"python manage.py startapp"` to start my app.

3. Do some research about the Django admin site and write down how you'd use it during your web application development.

The Django admin site is one of the coolest features of Django, and I'd use it a lot during web development. It's basically an out-of-the-box interface for managing my site's content, users, and other data models without needing to code those management pages myself. I can use the admin site to add, edit, and delete entries, like products, posts, or user accounts. Also, it is useful when it comes to testing data. The admin site lets me quickly add or modify data and test how the application works with various data sets.