

Do some research on Django models. In your own words, write down how Django models work and what their benefits are.

Django models provide an easy way to interact with a database using objects instead of direct SQL queries. They can automatically generate tables and value rules based off of an easily defined model field. Another benefit of models is that you can use them to specify which type of data must go in the field as well as character limits or other constraints.

Django models also integrate into the built in admin panel which makes performing and implementing CRUD operations a lot easier.

In your own words, explain why it is crucial to write test cases from the beginning of a project. You can take an example project to explain your answer.

Writing tests is important because it saves time to make sure a feature works fully as intended before adding onto it. It's much easier to thoroughly test one small feature early on than it is to have to go through ten complex features just to figure out a hint of where a problem is coming from. Testing features only takes a few minutes but can save hours of development time.