

1. Which one of the following network configurations does NOT need to be provided explicitly to the web framework to establish a connection with an external database such as MySQL?

1 / 1 point

- ☒ Database version
- ☐ Address
- ☐ Database name
- ☐ Port

✓ **Correct**

Correct! While the configurations for the Database version may be passed internally, we do not need to provide the Database version explicitly to the web framework to establish a connection with the database.

3. Which challenges are faced by a developer specifically while debugging code inside web applications? Select all that apply.

1 / 1 point

- ☐ Lack of debugger tool inside IDE such as VS Code
- ☒ Package dependencies

✓ **Correct**

Correct! The dependencies of packages may have conflicting versions as external libraries and tools are added, and each requires a different version.

- ☐ Incomplete understanding of data structures
- ☒ Interlinked files

✓ **Correct**

Correct! Web frameworks have interlinked files. For example, in Django, URLconfigs are connected to the views and are challenging to troubleshoot.

4. Which of the following are the advantages of using Function-based views?

0 / 1 point

- ☒ Use of decorators

✓ **Correct**

Correct! The decorators '@' are types of helper functions and can be used to extend the functionality of Function-based views.

5. Suppose you are creating a superuser in the Django shell. Which of the following user details are mandatory? Select all that apply.

1 / 1 point

☒ Username

✓ **Correct**

Correct! A username is a prerequisite for establishing user authentication and requires it to persist independently of the session.

☐ Group name

☒ Password

✓ **Correct**

Correct! Password is the prerequisite for establishing user authentication and requires it to persist independently of the session.

☐ Permissions

☒ Email

✓ **Correct**

Correct! Email is required to persist as an added measure for password validation and authentication in situations such as losing your password or username.

6. Complete the following sentence: Jinja2 is a type of \_\_\_\_\_

1 / 1 point

- ☒ template Engine.  
☐ security tag added inside the templates.  
☐ an alternative protocol for web communication.  
☐ functionality to enable template inheritance.

✓ **Correct**

Correct! Jinja2 is a popular template engine used in Python and can be used for extending the functionalities of the Django template language while using Django.

7. Which of the following are the built-in path converters used for URL configuration in Django? Select all that apply.

0 / 1 point

☒ `str`

✓ **Correct**

Correct! Str matches any non-empty string, excluding the path separator, '/'. This is the default if a converter isn't included in the expression.

8. The DRY principle in Django that promotes code reusability is an acronym for:

1 / 1 point

- ☐ Don't recycle yourself
- ☒ Don't repeat yourself
- ☐ Doubly repeat yourself
- ☐ Dynamically repeat yourself

✓ Correct

Correct! DRY is one of the main principles in Django and is utilized in Django with the help of template inheritance that promotes code reusability.

9. Using the helper function in Django, which of the following is valid code to create a new user in Django?

1 / 1 point

Note: `mario` is the username, `pass@123` is the password and `mario@littlelemon.com` is the email address.

☒

```
1 User.objects.create_user('mario', 'mario@littlelemon.com', 'pass@123')
```

10. For the declaration of class `MenuTestCase` created for testing, what will be the parameter passed inside it to implement the `unittest` package of Python? For example:

1 / 1 point

```
1 class MenuTestCase(<class object to be passed>):  
2     ...
```

- ☐ `UnitTest`
- ☐ `UnitCase`
- ☐ `TestUnit`
- ☒ `TestCase`

✓ Correct

Correct! The `TestCase` subclasses from the package `Django.test.TestCase`, which is imported inside the file to be tested and passed to the class `MenuTestCase` mentioned above as an argument.