

## Task 2.6:

1. In your own words, write down the importance of incorporating authentication into an application. You can take an example application to explain your answer.

**Ans:** Many times there is need of identifying the user so that the app can properly respond to that user's requirements. For example, in an ecommerce app the app must have a authenticated user to make a purchase. If no user is authenticated then the app cannot know the orders placed belong to which person accessing the app. Thus authentication provides us with a way to uniquely identify the users of an application.

2. In your own words, explain the steps you should take to create a login for your Django web application.

**Ans:** Django being a batteries-included framework gives us built-in authentication that we can use to implement user login in django. From `django.contrib.auth` we can import the `authenticate` and `login` method. From `django.contrib.auth.forms` we can use the `AuthenticationForm` to our advantage as it has the default fields. We can now make a login view function/class and for the post request write code to extract the username and password from the request and then use it to authenticate the user based on the credentials received. If the user is valid, it is logged in using the login function else we return an error message of Bad Request with status code 400.

3. Look up the following three Django functions on Django's official documentation and/or other trusted sources and write a brief description of each.

**Ans:** Following are 3 Django functions with their details.

1. render

render function is used to render a template from a view, it takes in the parameter request, the template name and the context that is to be used on the view

2. logout

logout function takes in the current request and then logs out the current logged in user from that request.

3. redirect

redirect is a function that can perform a redirect from one view to another provided the name of the view to redirect to. This perform a redirect with the status code 301.