

Name - Shan Satyaarthi  
Subject - Django  
Test date - 19/12/2022

Q Define the MVT architecture of Django?

Ans - Django is a types of the python web framework which is used as web development. It follows the MVT architecture.

Models - Data will be stored here

Views - Data will proceed here

Templates - Data will displayed here

Models - The models is is used to maintain the data or store the data. It helps to represents the database.

Views - Views is types of UI (User Interface) what will you wants see on your browser when you render a website

(render → If we wants to display on any HTML file, then we will use render)

\* It also represent the HTML file, CSS file  
\* Javascript file

Templates - It contains the static parts parts of desired HTML, It also represent some special describing, How dynamic content will be displayed/inserted.

②

exp - any file load on template. base.html

Q Explain the directory structure of a Django project in detail.

Ans - Directory - It contains the files which you want to maintain the overall project.

Creation of project - If you want to create any project, then you will use these command.

Django - admin startproject project Name

Creation of app - If you want to create any app, then you will use these command.

python manage.py startapp app Name

Creation of directory

mk dir templates, statics.

Show the directory

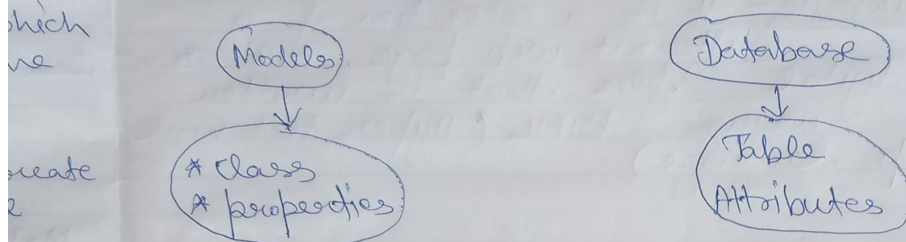
dir



3

Q Explain the process of creating models & then migrating them into databases?

Ans: Models - As we know that models is used to maintain the data.



If you want to create any models, first of all you will go `model.py` in `apps` & create the model

`class employees (models.Model):`

```
Name = models.CharField(max_length=50)
Department = models.CharField(max_length=50)
Address = models.TextField()
Performance grade = models.CharField(max_length=10)
Percentile = models.IntegerField()
```

⇒ How to migrate the database → we will use the command.

→ `python manage.py makemigrations`

→ `python manage.py migrate`



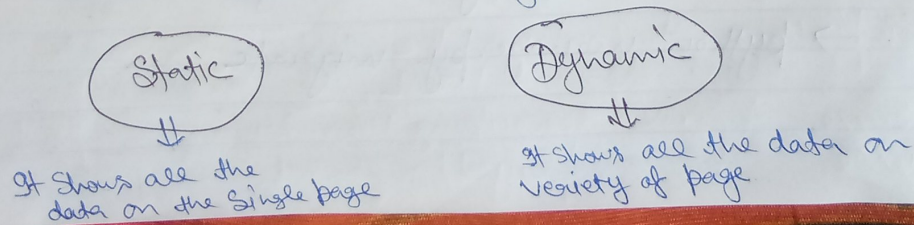
then All those table are coming here you will check on database.

Q what is a website? Difference b/w Static & Dynamic websites?

Ans - website - It is a collection of a different web page. It is a digital files that is written by using HTML (Hyper text mark up language)

⇒ A Static website is one with stable content where every user sees the exact same thing on each individual page. On other hand, the dynamic website is one where content is allowing its content to change with user.

⇒ A Static website is made up of webpages creating using HTML, CSS & JS. Each page on a static website is stored as a single HTML files, which is delivered directly from the server to webpage. In dynamic website, all of your data & content are organized in a database or Backend Content management which connects to your website.



Q Create a web application where user can enter any text & the see two options in there, ~~to~~ calculate the number of total characters, totals, vowels & consonants in that text.

Ans - ~~def~~

go to Views:-

```
def Vowel-count(Str):
```

```
    Count = 0
```

```
    Vowel = Set ("aeiouAEIOU")
```

```
    for alphabet in Str:
```

```
        if alphabet in Vowel:
```

```
            Count = Count + 1
```

```
    print("No. of Vowels:", Count)
```

```
Str = "Shan satyarthi"
```

```
Vowel-count(Str)
```

⇒ Run the Code.

⇒ o/p - No of Vowels = 4