print (f" Team: [tembd.name]")

print (f" Captain: (teambd. captain)")

print ("Squad:")

for player in teambd.get-squad ():

print (f"- [player]")

Django

1. Write down the step to create a django project named Library Management System.

Solution;

pip install virtualenv

venv/

python -m virtallenv venv

venv\scripts) activate

pip install django

django-admin startproject Library Management.

python manage. Py runserver

- 2. Create models named Book, Library.
- *Book model will have attribute such as title, author, quantity, price, category.
- *Library model will have attribute such as: book(foreign key), address.

Solution:

- (1) python manage. py startapp Library.
 - (11) Librarray (app) -> models-py ->

class BOOK (models. Model);

title= models. Charifield(max_length=200, null=True, blank=True)

author=models. Charfield (max length = 200, null=True, blank = True)

price = models. Intergerfield (null=True, blank=True)

quantity = models. Integerfield (null=True, blank=True)

category = models. Charfield (max length = 300)

def __str__(self):

return self. title

class Library (b models. Model):

book = models. Forceignkey (BOOK, on_delete = models.

CASCADE)

address = models. Charifield (max_length=200, null=True)

blank = True).

neveral of tunketoven

(15 hold - 319 home) Hood - Are Le

def -str_(self);
tretain self, book, title

admin, Py ->
from models import *
admin, site, register([BOOK, Library])

Terminal ->

Python manage. Py makemigrations

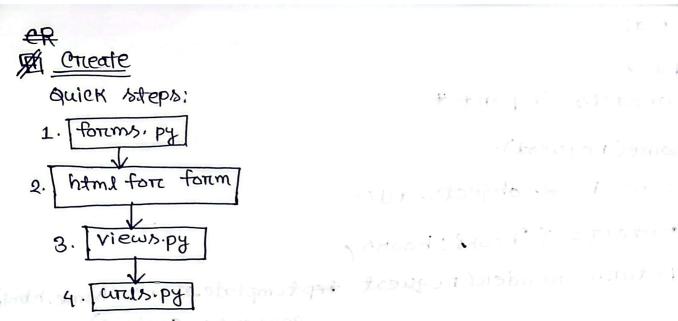
Python manage. py migrate

Python manage. py createsupercuser

(SWAT = HANNE

Little - models. chartreld may length = 200 vill - me.

```
Read Data:
·views.py ->
      ·models import +
 from
  def home ( request):
      book = Book, objects, auc)
       context = T'books: books >
       treturn render (request, teptemplate name= home, html
                                   context = context)
A Create a directory called "template".
  settings. py >
  TEMPLATE = [BASE_DIR, 'template']
                     a multiplicated by squeet march opening to
home html->
                                Chans book Farm ( Model Fr
    $12body>
   if y, fore book in books x,}
          <h3> < < book. authory> </h3>
     < endforces</p>
    </body>
 wills, Py >
   from Librarry import views as & Liviews
   unispatterns = [
     path= ('home/', L-viewa.home, name='home')
```



* open a python file name "forms" in the app.

Step:1

forms. Py >

models imports to agree to see a see

from django form import Model Form

Class BookForcm (ModelForm):

class Meta;

model= Book IA & South . Hood >> < It.

fields = -all- norther - xcod > > < & i>

Step: 2

<form method = 'POST' encrypt = "multipart/form-data"> < / CSTCf = token x/ wish brogner Broad inorth

Lu Matthe

YX endforexy

5 Model War Charles Common Street

11 forcm, as-p>>

</forem>

```
views. Py >
 from forms import *
      create Book ( request):
      form = BOOKFORM ()
      if request method == post
          form = BOOKFORM ( Request. POST, Request. FILES)
               form. is_valid();
               form savec)
                neturn redirect ('home')
       context = 1 form': forms
       neturn nender (nequest, "Bookform. html", context)
 Step: 4
  ards, py >>
    path ('upload/', L-views. CreateBook, name = 'upload')
                views. Py >
Update:
                from forms import *
 Quick steps:
                def updateBook (request, id):
 1. Views. Py
                    book = Book · objects · get(PK=id)
                    form = BookForm CInistance = 1800K)
    urels-Py
                    if request. method == 'post';
                       form = Book Form (trequest. POST, request.
                               FILES, instance = book)
                       if form. is_valide):
                           form; savec)
                           neturn redirect (home')
```

Step:3

```
"context = 1 form": form)

neturn menden (nequest, "BookForm. Film!", context)
```

```
Step:2
```

unds.py >
path ('update/ (str:id)', Lview. updateBook, name='update')

```
Delete:
Quick steps:

1. Intml

2. Views. py

3. Urils. py
```

```
Step:1

deleteBook.html >

<form method = 'POST', energpt = "multipart/
form—data">

Yéx carf token x.y

(a href="\xuru !home' x.y >

No. </a>

No. </a>
```

Step:2

view.py >

from forms import *

def Delete, BOOK (Trequest, id):

book = Book, objects. get (PK=id)

if request. method = = 'POST':

if forem. is valide)

book. delete()

neturn readinect ('hom'e')

return render (request, "deleteBook.html)

step:3 unus.py >
path ('delete/kstn:id)'; Lview. DeleteBook, name = delete)

MVT (Model-View-Template) is a software design pattern commonly used with Django, a high-level Python web framework. It

How it works :-

The MVT (Model-View-Template) anchitecture in Django helps organize a web application into three parts. The Model handles the data and intercacts with the database. The View controls what happens when a wser makes a requestit gets data from the model and chooses what to show. The Template is the HTML page that shows the data to the user. When someone visits a website, Django sends the nequest to the view, the view gets data from the model, and then shows it using the template. This makes the code clean and easy to manage.

Example:

Let Suppose, we are building a website that shows a list of trestaurants.

Ist Replace on world In a File.

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-: attrow to worth

Firstly, user open the website, and goes the View receives the neguest and decides what to show. It asks the model to get the needed data from the database, like a list of nestaurants. Then, this data is sent to the Template, which is a web page layout. The * template files in the data executes and creates a full webpage. Finally, this page is sent back to the users's browser. This setup keeps the work divided-models handle data, views handle logic and templates handle what the user sees-making the website easier to manage.

commonly used with Django, a high-level Pylish web

Ext I was consider as following market - Johan YTVM BAT.