

Installation

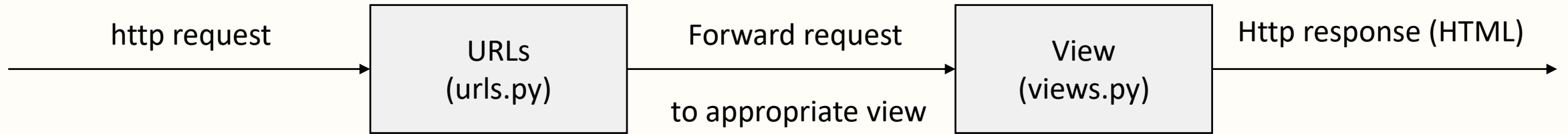
- Python Installation
- Django Installation

Settings Module

Separating dev, prod, test environments

- Create a folder called settings or config
- Move the settings.py to that dir
- Create a __init__.py
- Create a dev.py, import settings to it, overwrite the values in dev.py
- Repeat the same for prod.py
- In settings.py, point the base dir one step up
- In wsgi.py and manage.py, point the settings to dev
- Run the server

Requests & Response



urls.py

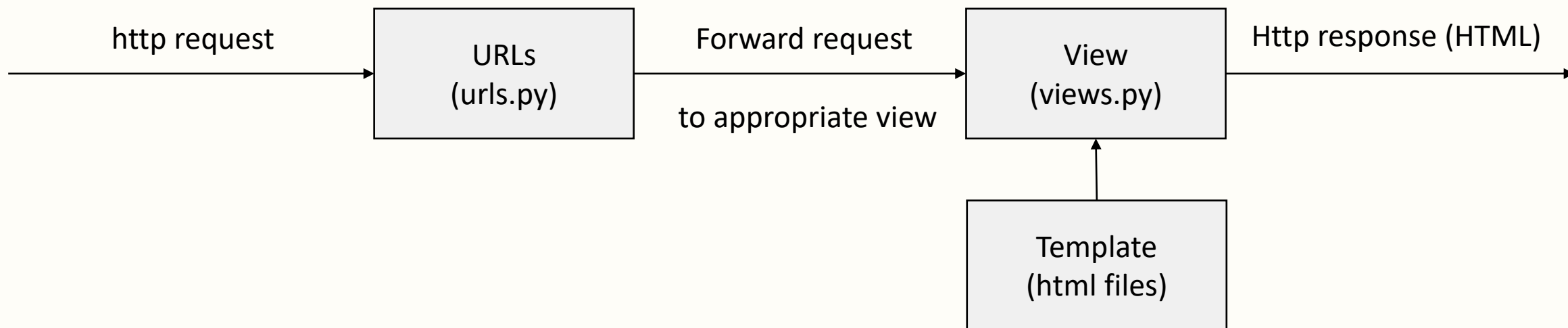
```
from .views import index  
  
urlpatterns = [  
    path('admin/',  
    admin.site.urls),  
    path('', index),  
]
```

views.py

```
from django.http import HttpResponse  
  
def index(request):  
    return HttpResponse('<b>Hello world<b>')
```

Run a development server

- Make a new project directory
- Start the project
django-admin startproject mysite
- Run the server
python manage.py runserver



Template - Overview

- Start an app

```
>python manage.py startapp members
```

- Add app to Installed Apps

In project directory, in *settings.py*, add the newly created members

```
INSTALLED_APPS = [  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
    'members'  
]
```

- In app directory, create a folder called **templates** → backend → index.html
- Edit index.html

index.html

```
<html >  
  
  <style>  
    body {  
      background-color:  
        lightblue;  
    }  
  </style>  
  <body>  
    hey  
  </body>
```

Template - Overview

- Edit members/views.py
- Add path to to project's urls.py

- Makemigrations

```
> practice\gymsite\gymsite>python  
manage.py makemigrations
```

- Migrate

```
> practice\gymsite\gymsite>python  
manage.py migrate
```

- Runserver

```
> practice\gymsite\gymsite>python  
manage.py runserver
```

views.py

```
def url1(request):  
    return render(request, 'backends/blog.html')
```

urls.py

```
from members.views import page  
  
urlpatterns = [  
    path('admin/', admin.site.urls),  
    path('members/', page)  
]
```

Recap

- Settings module – separating dev & prod environments
- Requests & Response
- Running a development server
- Template overview

Template- Overview

Context

- In the app directory, edit views.py
- In the app directory, edit templates → backend → index.html
- Run the server

index.html

```
<html >

<style>
body {
    background-color: lightblue;
}
</style>
<body>
    hey {{name}}
</body>
```

views.py

```
from django.shortcuts import render

# Create your views here.

context = {'name': 'hephzi'}

def url1(request):
    return render(request, 'backend/index.html', context)
```

Template- Overview

Template files with little complicated context

- In the app directory, edit views.py

- In the app directory, edit templates → backend → index.html
- Run the server

index.html

```
<body>
<table>
  <tr>
    <th> Name </th><th> Active </th>
  </tr>

  {% for member in members %}
  <tr>
    <td> {{ member.name }} </td>
    <td> {{ member.active }} </td>
  </tr>
  {% endfor %}
</table>
</body>
```

views.py

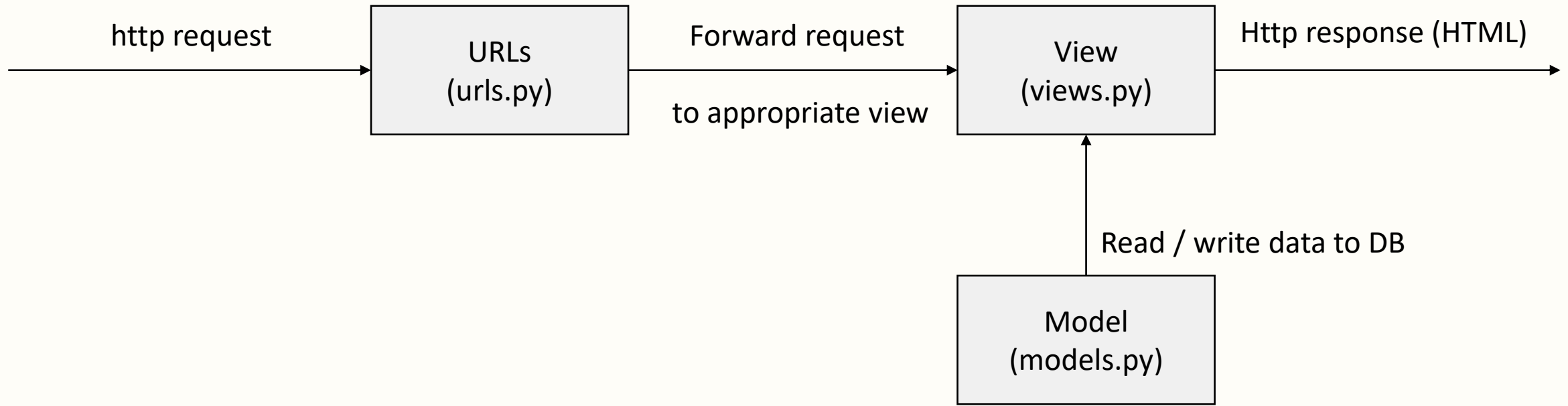
```
from django.shortcuts import render
# Create your views here.

context = {'members': [
    {'name': 'jessie', 'active': True},
    {'name': 'malini', 'active': False}
]}

def url1(request):
    return render(request, 'backend/index.html',
context)
```

Models – Introduction

A way to interact with DB



- Sqlite3 download
- View all the tables in sqlite3 db

Models – Introduction

A way to interact with DB

Creating a empty table

- Start an app

```
>python manage.py startapp members
```

- Edit members/models.py

- Edit gymsite/settings.py

- Makemigrations

```
> practice\gymsite\gymsite>python  
manage.py makemigrations
```

- Migrate

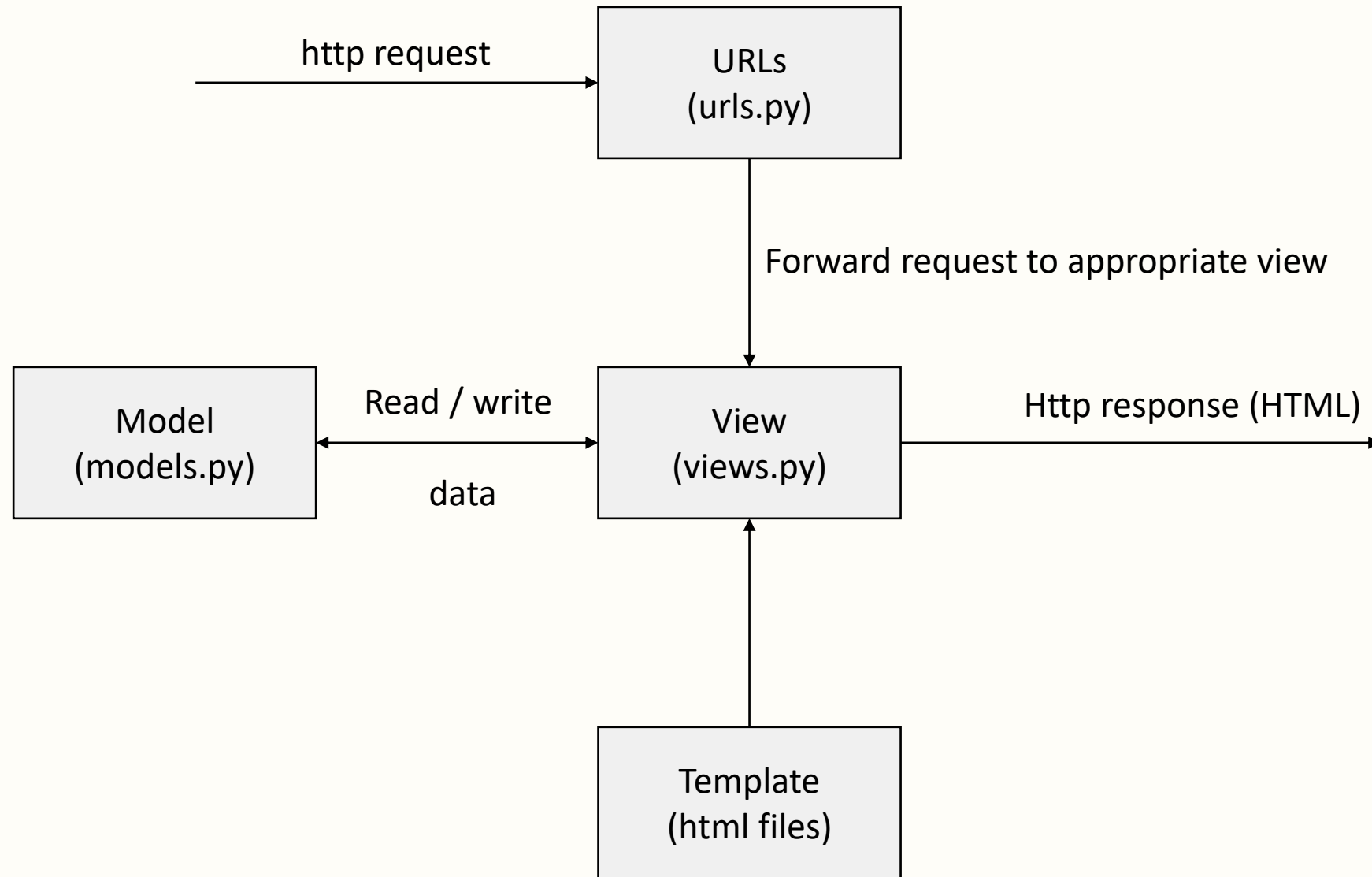
```
> practice\gymsite\gymsite>python  
manage.py migrate
```

models.py

```
from django.db import models  
  
# members records  
class members(models.Model):  
    name = models.CharField(max_length=30)
```

settings.py

```
INSTALLED_APPS = [  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
    'members'  
]
```



Django admin site introduction

- Apply / enable the default app(s) by migrate
python manage.py migrate
- Create a super user
python manage.py createsuperuser
- Run the server and play around admin site
python manage.py runserver