



```
git init
```

create a file called `.gitignore`

add either file names / directory names / patterns

```
venv
```

```
*.md
```

```
*.txt
```

```
*.log
```

```
random.txt
```

* wild card character

```
git add
```

```
git add --all
```

```
git commit
```

```
git remote add origin <url>
```

```
git remote add origin https://github.com/prashant5nov/starwarsAPI.git
```

```
git remote add mylabel https://github.com/prashant5nov/starwarsAPI.git
```

```
git remote -v
```

```
git remote --verbose
```

```
git push origin main
```

```
git log
```

github -> new repository

prashant's laptop -> git repository

api1 - response validation

api2 - request validation

BaseModel (Pydantic)

Base

Film_

pydantic related steps

Step 1: create a package called `models`

Step 2: create a base model basemodel.py

Refer

<https://github.com/prashant5nov/starwarsAPI/blob/main/models/basemodel.py>

Step 3: create a package called datamodels

Refer

<https://github.com/prashant5nov/starwarsAPI/tree/main/models/datamodels>

Step 4: put files related to each resource in following files (respectively)

- films.py
- characters.py
- starships.py etc.

Refer

<https://github.com/prashant5nov/starwarsAPI/tree/main/models/datamodels>

Step 5: create a package called resources**Step 6: create a base class in file base.py**

<https://github.com/prashant5nov/starwarsAPI/blob/main/resources/base.py>

Step 7: create a resource file to define resource class (inherited from base class)

<https://github.com/prashant5nov/starwarsAPI/blob/main/resources/films.py>

Step 8 : write task_three.py

https://github.com/prashant5nov/starwarsAPI/blob/main/task_three.py

Step 9: python task_three.py

Cloud

- AWS
- Azure
- GCP
- Redhat
- IBM
- DigitalOcean
-

<https://swapi.dev/>

DNS

swapi.dev -> 180.90.90.11:3306 (server)

Networking

IP address :: Unique address to identify node on network

127.0.0.1 (localhost)

what is service?

A software process that is continuously running
every service is bound to a certain port

How service installed on remote server can be accessed?

1. ip address
2. port : logical port identification of service

:

127.0.0.1:3306

localhost:3306

home address : 127.0.0.1

- mysql default port is 3306

Database systems

DBMS (Database Management System)

DBMS systems

- Store data in structured format
- data structure
- multi-user access (authentication, authorization)
- privilege control
- Network access

Types of databases

1. Relational database (RDBMS)
2. Non-relational database (also known as NOSQL database)

SQL (Structured Query Lang)

- DDL (Data Definition language)
 - CREATE TABLE ...
 - CREATE VIEW ...
- DML (Data manipulation language)
 - SELECT
 - INSERT INTO ...
 - UPDATE INTO ...

CRUD operations

C - create

R - retrieve

U - update

D - delete

RDBMS

- MySQL
- Oracle
- SQLite
- Postgres

NOSQL

- MongoDB
- Redis
- Google datastore

MYSQL

- ACID principals
- MySQL workbench (database client)
- Sample databases

