Day 10 Dharunya S

- Create Fast API, to store, retrive all and retrive specific song by Id.
 - SQLite can be used as data store
 - table can contain

```
day10 task.py
from fastapi.templating import Jinja2Templates
from pydantic import BaseModel
from sqlalchemy import Column, Integer, String, create_engine
from sqlalchemy.dialects.sqlite import *
from sqlalchemy.orm import sessionmaker, Session, declarative_base
import uvicorn
from typing import List
from fastapi.responses import HTMLResponse
templates = Jinja2Templates(directory="templates")
SQLALCHEMY_DATABASE_URL="sqlite:///./movie.db"
engine=create_engine(SQLALCHEMY_DATABASE_URL,connect_args={"check_same_thr
ead":False})
session=sessionmaker(autocommit=False,autoflush=False,bind=engine)
base=declarative_base()
class Moviessong(base):
  __tablename__='movie'
  Id=Column(Integer,primary_key=True,index=True )
  SongName=Column(String(50),nullable=False)
  Duration=Column(Integer,nullable=False)
  base.metadata.create_all(bind=engine)
from fastapi import Depends, FastAPI, Request
app=FastAPI()
def get_db():
  db=session()
  try:
    yield db
  finally:
```

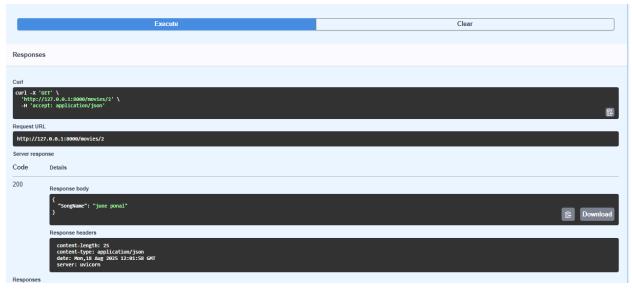
```
db.close()
```

```
# return db
class Movies(BaseModel):
  ld:int
  SongName:str
  Duration:int
  class config:
    orm_mode=True
@app.post('/add_song')
def add_song(mt1:Movies,db:Session=Depends(get_db)):
  # db=get_db()
  mt= Moviessong(SongName=mt1.SongName,Duration=mt1.Duration)
  db.add(mt)
  db.commit()
  db.refresh(mt)
  return "data inserted"
@app.get("/movies", response_class=HTMLResponse)
def get_movies(request: Request, db: Session = Depends(get_db)):
  movies = db.query(Moviessong).all()
  return templates.TemplateResponse("songs.html", {"request": request, "movies":
movies})
class movie dto(BaseModel):
  SongName:str
  class config:
    orm mode=True
@app.get("/movies/{mov_id}",response_model= movie_dto)
def get_movie_by_id(mov_id: int,db: Session = Depends(get_db)):
  mt= db.query(Moviessong).filter_by(ld=mov_id).first()
  mt_dto=movie_dto(SongName=mt.SongName)
  return mt_dto
@app.middleware("http")
async def addmiddleware(request:Request,call_next):
  print("Middleware has intercepted the calls!")
```

response=await call_next(request) return response

if __name__=="__main__":
 uvicorn.run("day10task:app",host="127.0.0.1",port=8000,reload=True)





	<u>Id</u>	SongName	Duration
	Filter	Filter	Filter
1	1	anbil	300
2	2	june	180
3	3	mundhi	180
4	4	kanima	240
5	5	kana	300

```
Songs.html
<!DOCTYPE html>
<html>
<head>
 <title>Movie Songs</title>
</head>
<body>
 <h1>Movie Songs List</h1>
 ID
    Song Name
    Duration
   {% for song in movies %}
    {{ song.ld }}
```

```
{{ song.SongName }}
{{ song.Duration }}

</body>
</html>
```

Movie Songs List

ID	Song Name	Duration
1	anbil avan	300
2	june ponal	180
3	mundhinam partheynae	180
4	kanima	240