CODE

```python
from sqlalchemy import create_engine, Column, Integer, String
from sqlalchemy.orm import sessionmaker, declarative_base, Session
from fastapi import FastAPI, Depends, Request
import uvicorn
SQLACHEMY_DATABASE_URL = "sqlite:///./MusicList.db"

engine = create_engine(SQLACHEMY_DATABASE_URL,
connect_args={"check_same_thread": False})
SessionLocal = sessionmaker(autocommit=False, autoflush=False,
bind=engine)
Base = declarative_base()

class Music(Base):
    __tablename__ = "music"
    Id = Column(Integer, primary_key=True, index=True)
    Name = Column(String(50), nullable=False)
    MusicDirector = Column(String(50), nullable=False)
    Album = Column(String(50), nullable=False)

from pydantic import BaseModel
class Musics(BaseModel):
    Id:int
    Name: str
    MusicDirector : str
    Album : str
    class Config:
        orm_mode=True

app = FastAPI()

def get_db():
    db = SessionLocal()
    try:
        yield db
    finally:
        db.close()
```
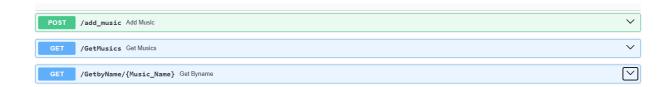
```python
@app.post('/add_music')
def add_music(st1:Musics,db: Session = Depends(get_db)):
    st = Music(Name=st1.Name,
MusicDirector=st1.MusicDirector,Album=st1.Album)
    db.add(st)
    db.commit()
    db.refresh(st)
    return {"message": "Data Inserted"}

from typing import List
@app.get('/GetMusics',response_model=List[Musics])
def get_musics(db: Session = Depends(get_db)):
    return db.query(Music).all()

class Music_dto(BaseModel):
    Name: str
    MusicDirector: str
    Album : str
    class Config:
        orm_mode =True
        from_attributes=True

@app.get('/GetbyName/{Music_Name}',response_model=Music_dto)
def get_byName(Music_Name: str, db: Session = Depends(get_db)):
    music = db.query(Music).filter(Music.Name == Music_Name).first()
    if music is None:
        return {"error": "Music not found"}
    music_dto =Music_dto.model_validate(music)
    return music_dto

@app.middleware("http")
async def addmiddleware(request : Request,call_next):
    print("Middleware Integrated")
    response =await call_next(request)
    return response

if __name__ == "__main__":
    uvicorn.run("Music:app", host="127.0.0.1", port=7000, reload=True)
```

OUTPUT

POST	**/add_music** Add Music	∨
GET	**/GetMusics** Get Musics	∨
GET	**/GetbyName/{Music_Name}** Get Byname	∨

ADD_MUSIC

Responses

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/add_music' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
  "Id": 3,
  "Name": "Naa Ready than",
  "MusicDirector": "Anirudh",
  "Album": "Leo"
}'
```

Request URL

```
http://127.0.0.1:8000/add_music
```

Server response

Code	Details
200	Response body

```
{
  "message": "Data Inserted"
}
```

GET_MUSIC

Request URL

```
http://127.0.0.1:8000/GetMusics
```

Server response

Code	Details
200	Response body

```
[
  {
    "Id": 1,
    "Name": "PowerHouse",
    "MusicDirector": "Anirudh",
    "Album": "Coolie"
  },
  {
    "Id": 2,
    "Name": "I am the Danger",
    "MusicDirector": "Anirudh",
    "Album": "Coolie"
  },
  {
    "Id": 3,
    "Name": "Naa Ready than",
    "MusicDirector": "Anirudh",
    "Album": "Leo"
  }
]
```

GET_BYNAME

Music_Name * required
string
(path)

PowerHouse

Execute	Clear

Responses

Curl

```
curl -X 'GET' \
  'http://127.0.0.1:7000/GetbyName/PowerHouse' \
  -H 'accept: application/json'
```

Request URL

```
http://127.0.0.1:7000/GetbyName/PowerHouse
```

Server response

Code	Details
200	Response body

```
{
  "Name": "PowerHouse",
  "MusicDirector": "Anirudh",
  "Album": "Coolie"
}
```

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