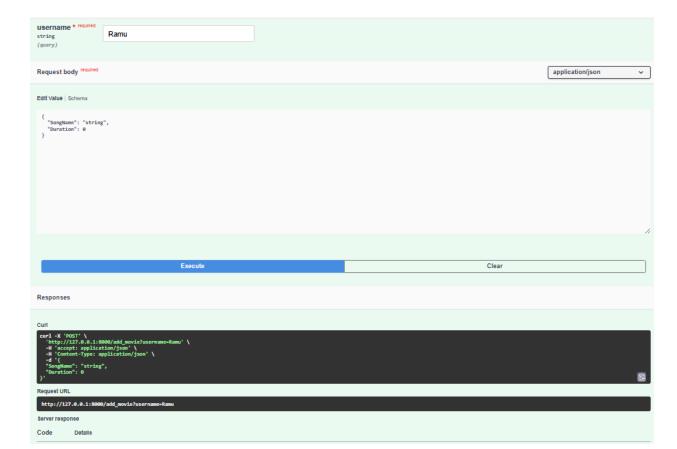
## Day 10 Dharunya s

add an additional table called users. put api post request to insert user into it in fast api. Additionally, when request to list music api is called, only a valid user is allowed to get the response else raise HTTPException with error code

```
from sqlalchemy import create_engine, Column, Integer, String
from sqlalchemy.orm import sessionmaker, Session, declarative_base
from fastapi import FastAPI, HTTPException, Request, Depends
from fastapi.templating import Jinja2Templates
from fastapi.responses import HTMLResponse
from pydantic import BaseModel
import uvicorn
MOVIE_DB_URL = "sqlite:///./movie.db"
engine = create_engine(MOVIE_DB_URL, connect_args={"check_same_thread": False})
SessionLocal = sessionmaker(autocommit=False, autoflush=False, bind=engine)
Base = declarative_base()
class User(Base):
  __tablename__ = "users"
  Id = Column(Integer, primary_key=True, index=True)
  Name = Column(String(50), unique=True, nullable=False)
class Movie(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)
app = FastAPI()
templates = Jinja2Templates(directory="templates")
def get_db():
  db = SessionLocal()
  try:
    yield db
  finally:
    db.close()
```

```
def authenticate(name: str, db: Session):
  user = db.query(User).filter(User.Name == name).first()
  if not user:
    raise HTTPException(status_code=401, detail="User not allowed")
  return user
class UserSchema(BaseModel):
  Name: str
  class Config:
    orm_mode = True
class MovieSchema(BaseModel):
  SongName: str
  Duration: int
  class Config:
    orm_mode = True
class MovieDTO(BaseModel):
  Name: str
  class Config:
    orm_mode = True
@app.post("/add_user")
def add_user(user: UserSchema, db: Session = Depends(get_db)):
  existing = db.query(User).filter(User.Name == user.Name).first()
  if existing:
    raise HTTPException(status_code=400, detail="User already exists")
  new_user = User(id=user.ld,Name=user.Name)
  db.add(new user)
  db.commit()
  db.refresh(new user)
  return {"message": f"User {new user.Name} added successfully"}
@app.post("/add_movie")
def add_song(m: MovieSchema,username: str,db: Session = Depends(get_db)):
  authenticate(username, db)
  mv = Movie(SongName=m.SongName, Duration=m.Duration)
  db.add(mv)
  db.commit()
  db.refresh(mv)
  return mv
```

```
@app.get("/list_html", response_class=HTMLResponse)
async def list_songs_html(
  request: Request,
  username: str,
  db: Session = Depends(get_db)
):
  authenticate(username, db) # only registered users can view
  recs = db.query(Movie).all()
  return templates.TemplateResponse("songs.html", {"request": request, "movies":
recs})
@app.get("/getBy/{my_id}", response_model=MovieDTO)
async def get_movie_by_id(
  my_id: int,
  username: str,
  db: Session = Depends(get_db)
):
  authenticate(username, db)
  mv = db.query(Movie).filter_by(ld=my_id).first()
  if not mv:
    raise HTTPException(status_code=404, detail="Movie not found")
  return MovieDTO(Name=mv.SongName)
@app.middleware("http")
async def addmiddleware(request: Request, call_next):
  print("Middleware intercepted the call!")
  response = await call_next(request)
  return response
if __name__ == "__main__":
  uvicorn.run("day10:app", host="127.0.0.1", port=8000, reload=True)
```



Response headers

## **Movie Songs List**

ID	Song Name	Duration
1	anbil avan	300
2	june ponal	180
3	mundhinam partheynae	180
4	kanima	240
5	kana kangiren	300
6	string	0
7	string	0
8	enavale	300
9	enavale	400
10	kannai vitu	300
11	string	0
12	string	0