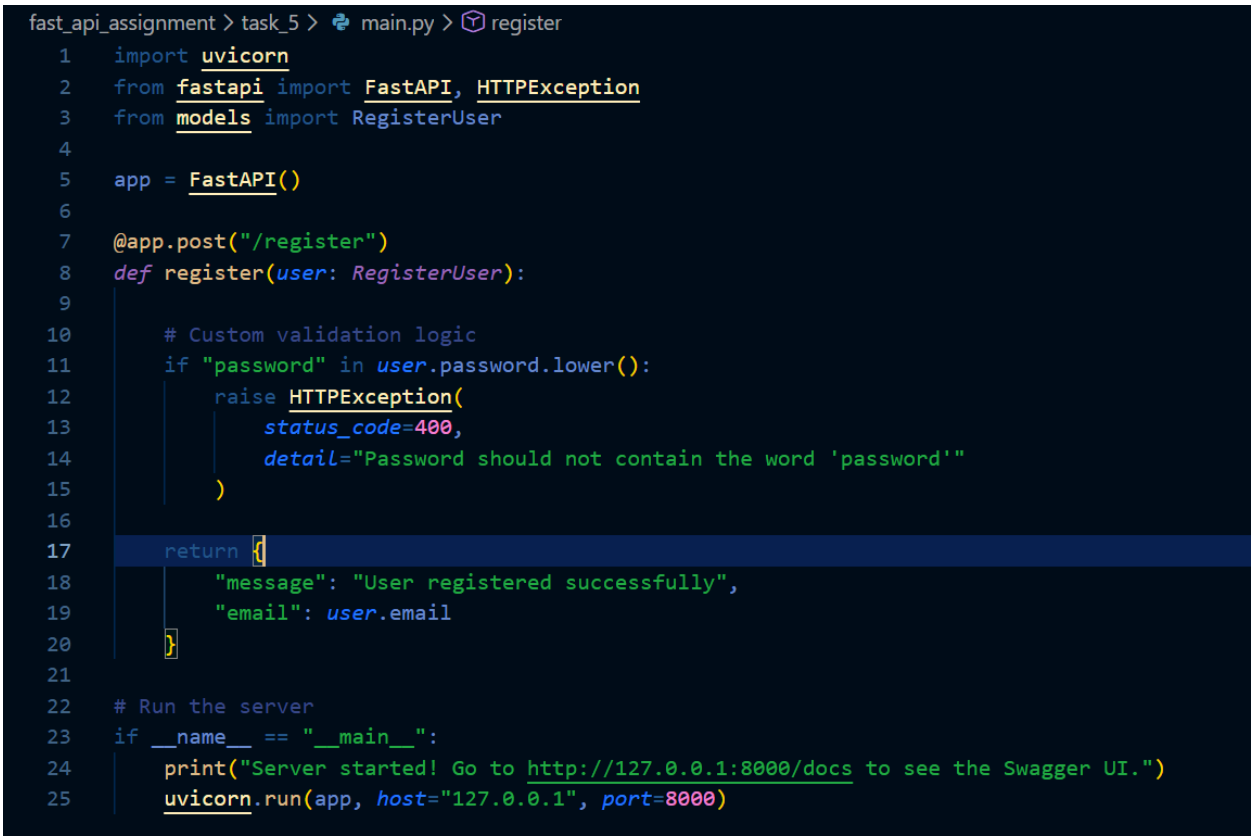
Fast API Task 5

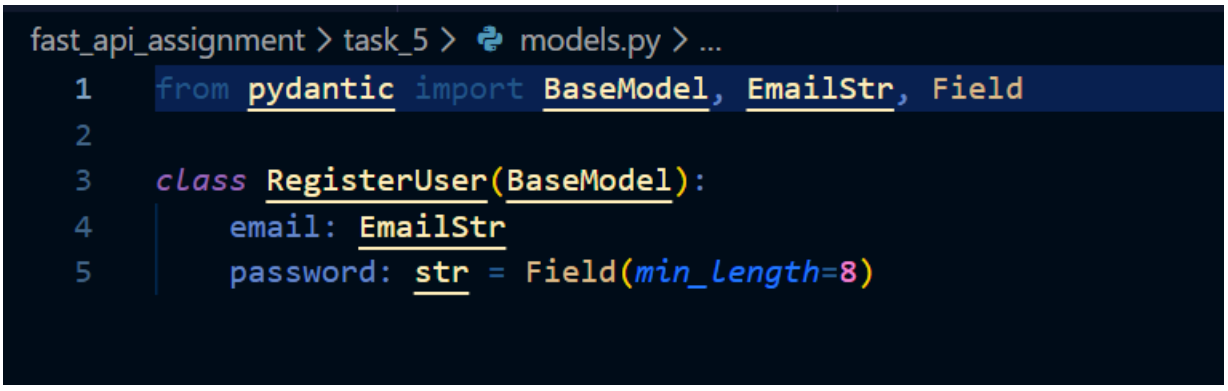
Executable code:

1. main.py:



```
fast_api_assignment > task_5 > main.py > register
import uvicorn
from fastapi import FastAPI, HTTPException
from models import RegisterUser

app = FastAPI()

@app.post("/register")
def register(user: RegisterUser):

    # Custom validation logic
    if "password" in user.password.lower():
        raise HTTPException(
            status_code=400,
            detail="Password should not contain the word 'password'"
        )

    return {
        "message": "User registered successfully",
        "email": user.email
    }

# Run the server
if __name__ == "__main__":
    print("Server started! Go to http://127.0.0.1:8000/docs to see the Swagger UI.")
    uvicorn.run(app, host="127.0.0.1", port=8000)
```

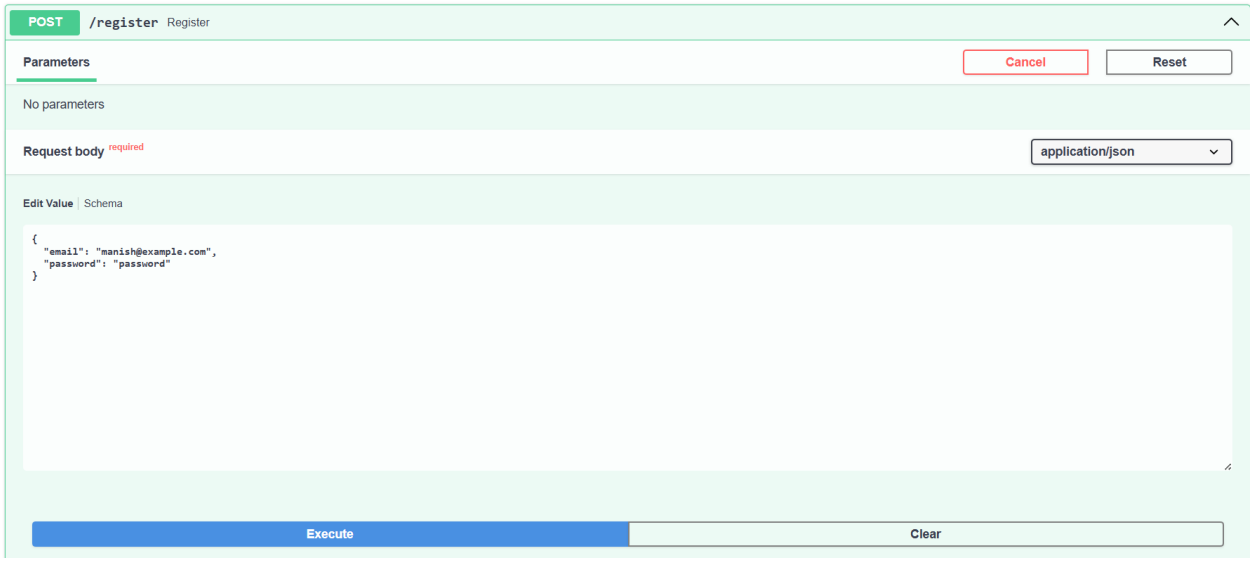
2. models.py:



```
fast_api_assignment > task_5 > models.py > ...
from pydantic import BaseModel, EmailStr, Field

class RegisterUser(BaseModel):
    email: EmailStr
    password: str = Field(min_length=8)
```

Output:

Request 1:



Response 1:

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/register' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
  "email": "manish@example.com",
  "password": "password"
}'
```

Request URL

```
http://127.0.0.1:8000/register
```

Server response

Code	Details

400 *Undocumented*	Error: Bad Request
	Response body
	`{ "detail": "Password should not contain the word 'password'" }`
	Response headers
	`content-length: 60`
	`content-type: application/json`
	`date: Mon,26 Jan 2026 03:29:28 GMT`
	`server: uvicorn`

Responses

Code	Description
200	Successful Response

Request 2:

Request body required

Edit Value | Schema

```
{
  "email": "manishbasnet12.com",
  "password": "abcasdfsdfdgdfg"
}
```

Response 2:

Request URL

```
http://127.0.0.1:8000/register
```

Server response

Code	Details
422	Error: Unprocessable Entity

Response body

```
{
  "detail": [
    {
      "type": "value_error",
      "loc": [
        "body",
        "email"
      ],
      "msg": "value is not a valid email address: An email address must have an @-sign.",
      "input": "manishbasnet12.com",
      "ctx": {
        "reason": "An email address must have an @-sign."
      }
    }
  ]
}
```

Response headers

```
content-length: 226
content-type: application/json
date: Mon,26 Jan 2026 03:34:06 GMT
server: uvicorn
```

Responses

Code	Description
200	Successful Response

Request 3:

Edit Value | Schema

```
{
  "email": "manishbasnet12@gmail.com",
  "password": "abcasdfsdfdgdfg"
}
```

Response 3:

Request URL

```
http://127.0.0.1:8000/register
```

Server response

Code	Details
200	Response body

```
{
  "message": "User registered successfully",
  "email": "manishbasnet12@gmail.com"
}
```

Response headers

```
content-length: 77
content-type: application/json
date: Mon,26 Jan 2026 03:35:35 GMT
server: uvicorn
```

Responses

Code	Description
200	Successful Response

Media type