



## STEP 1 – Create the Model (Database Table)

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Open:

```
api/models.py
```

Add:

```
from django.db import models

class Employee(models.Model):
    name = models.CharField(max_length=50)
    role = models.CharField(max_length=50)
    salary = models.IntegerField()

    def __str__(self):
        return self.name
```

This creates a table:

```
api_employee
```

with fields:

- id(auto)
- name
- role
- salary



## STEP 2 – Run Migrations (Create the DB)

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Run:

```
python manage.py makemigrations
python manage.py migrate
```

This creates `db.sqlite3` automatically.

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## STEP 3 – Implement CRUD using Django Model + Raw Views

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Open:

`api/views.py`

Replace with this full working code:

```
from django.http import JsonResponse
from django.views.decorators.csrf import csrf_exempt
from .models import Employee
import json

@csrf_exempt
def employees(request):

    # GET ALL EMPLOYEES
    if request.method == "GET":
        data = list(Employee.objects.values())
        return JsonResponse(data, safe=False)

    # CREATE EMPLOYEE
    if request.method == "POST":
        body = json.loads(request.body.decode('utf-8'))
        Employee.objects.create(
            name=body["name"],
            role=body["role"],
            salary=body["salary"]
        )
        return JsonResponse({"message": "POST EXECUTED"})

    # UPDATE EMPLOYEE (expect id in JSON)
    if request.method == "PUT":
        body = json.loads(request.body.decode('utf-8'))
        emp = Employee.objects.get(id=body["id"])
        emp.name = body["name"]
        emp.role = body["role"]
```

```
emp.salary = body["salary"]
emp.save()
return JsonResponse({"message": "PUT EXECUTED"})

# DELETE EMPLOYEE (expect id in JSON)
if request.method == "DELETE":
    body = json.loads(request.body.decode('utf-8'))
    emp = Employee.objects.get(id=body["id"])
    emp.delete()
    return JsonResponse({"message": "DELETE EXECUTED"})

return JsonResponse({"error": "Method not allowed"}, status=405)
```

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## STEP 4 – Map URL to View

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Open:

`api/urls.py`

```
from django.urls import path
from .views import employees

urlpatterns = [
    path('employees/', employees),
]
```

Open:

`myproject/urls.py`

Ensure:

```
path('', include('api.urls'))
```

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## STEP 5 – Test in Postman

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## ✓ GET all employees

GET `http://127.0.0.1:8000/employees/`

Response:

```
[]
```

(At the beginning.)

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## ✓ POST – Create employee

POST `http://127.0.0.1:8000/employees/`

Body → JSON:

```
{
  "name": "John",
  "role": "Manager",
  "salary": 50000
}
```

Response:

```
{"message": "POST EXECUTED"}
```

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## ✓ PUT – Update employee

PUT `http://127.0.0.1:8000/employees/`

Body:

```
{
  "id": 1,
  "name": "John Updated",
  "role": "Director",
  "salary": 90000
}
```

---

## ✓ DELETE – Remove employee

DELETE http://127.0.0.1:8000/employees/

Body:

```
{  
  "id": 1  
}
```

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