Topic: 9. CRUD Operations using Mixins

Speaker: Personal | Notebook: API Development using Django Framework



Mixins are a way to allow the reusability of methods. In object-oriented programming, mixin is a class with methods from other classes.

With mixins, we can reuse certain CRUD operations. These are the following:

```
LISTMODELMIXIN - method used is list()

CREATMODELMIXIN - method used is create()

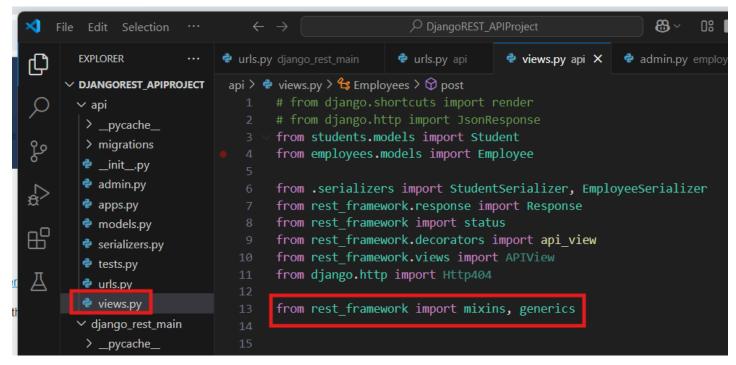
RETRIEVEMODELMIXIN - method used is retrieve()

UPDATEMODELMIXIN - method used is update()

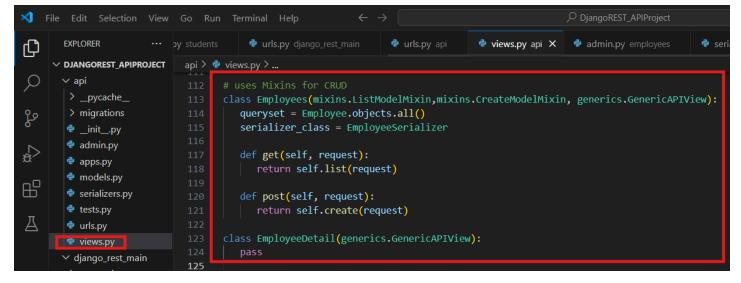
DESTROYMODELMIXIN - method used is destroy()
```

These are used with GenericAPIView. See the documentation $\underline{\text{here}}$.

- 1. To view all the records of Employees using Mixins, we update the API\VIEWS.PY and comment out the classes EMPLOYEE AND EMPLOYEE DETAIL.
- 2. Import the needed library.

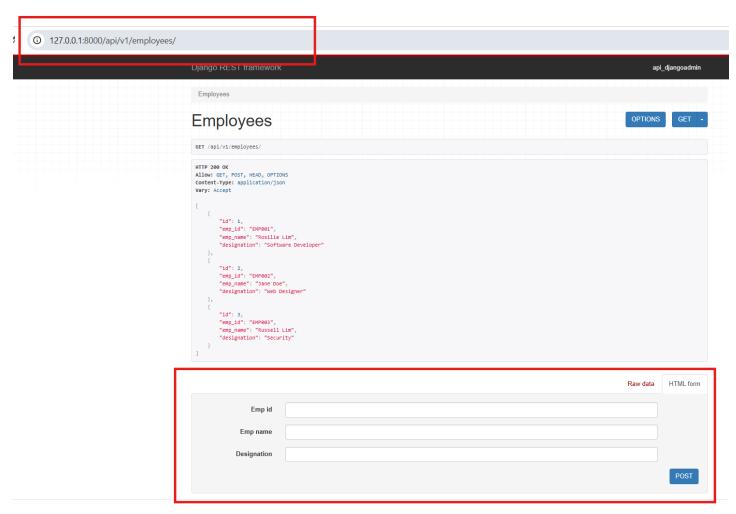


3. Create the new classes and test the URL.

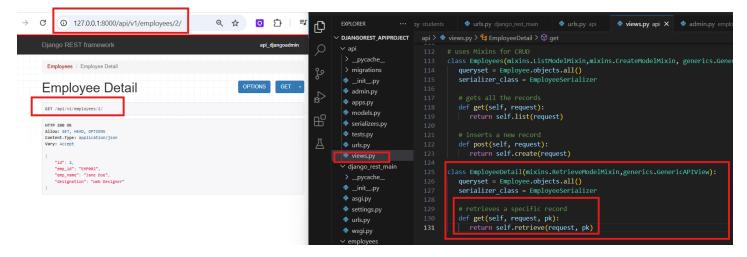


4. Testing the URL: http://127.0.0.1:8000/api/v1/employees/

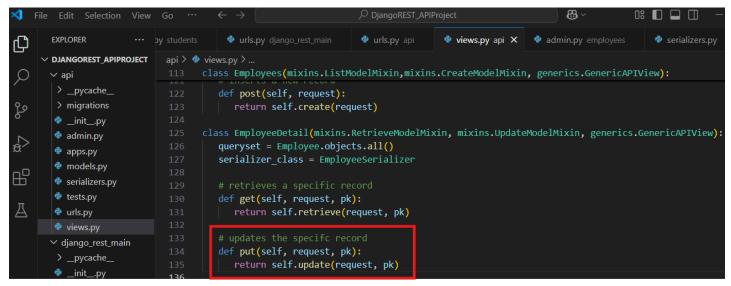
This will result to having a form where we can input employee details and when submitted, this will be added to our Employee model.



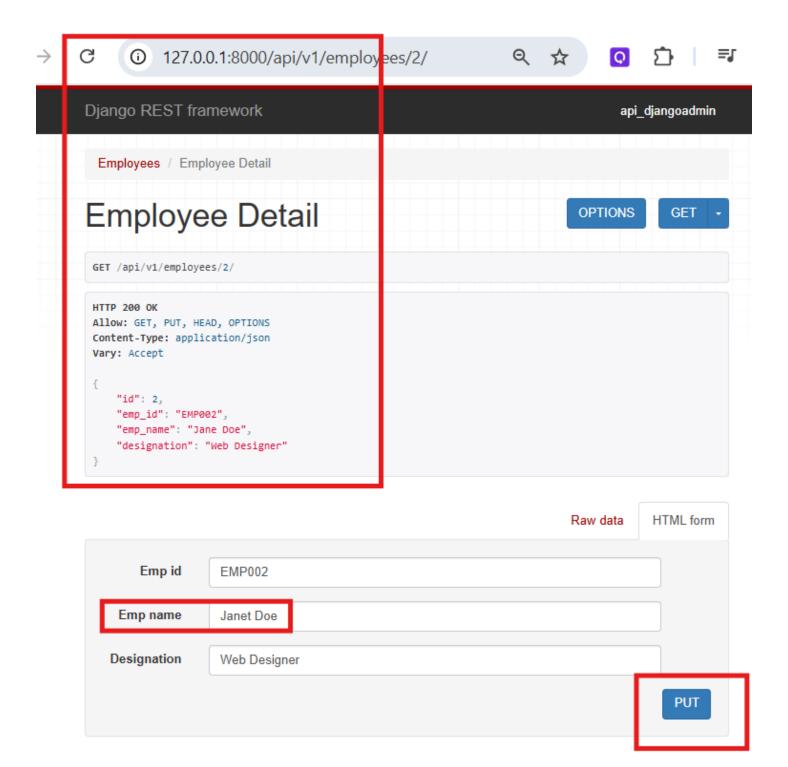
5. For single - record Read/Update/Delete operations, we update our API\APPS.PY as :



6. To update a specific record, we use the UPDATEMODELMIXIN.



To test:



This will update the record to:



PUT /api/v1/employees/2/

HTTP 200 OK
Allow: GET, PUT, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

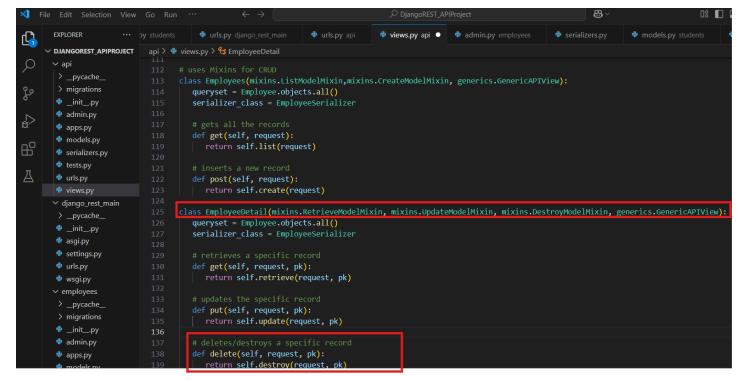
{
 "id": 2,
 "emp_id": "EMP002",
 "emp_name": "Janet Doe",
 "designation": "Web Designer"
}

Emp id	EMP002
Emp nome	Locat Dec
Emp name	Janet Doe
Designation	Web Designer
	PUT

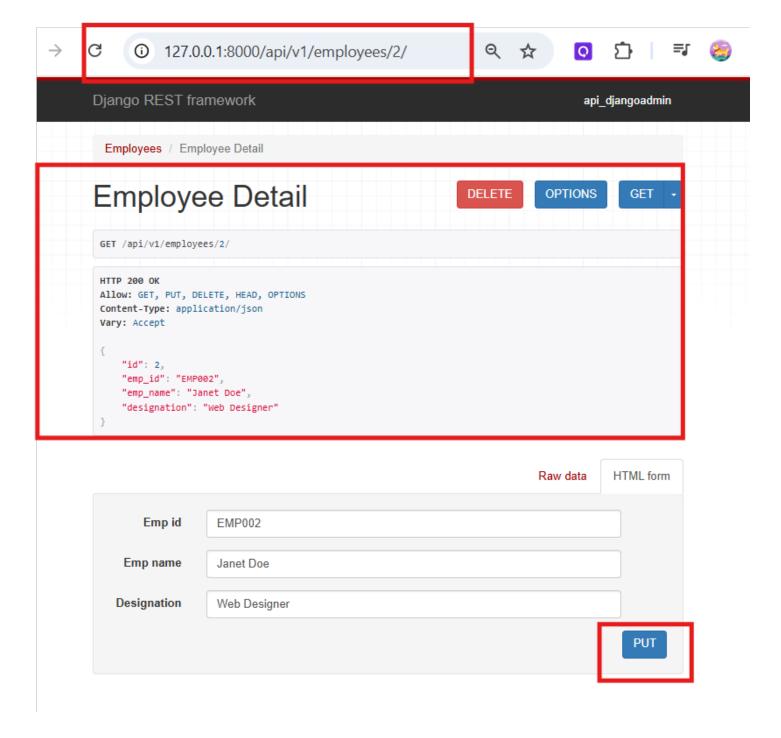
Raw data

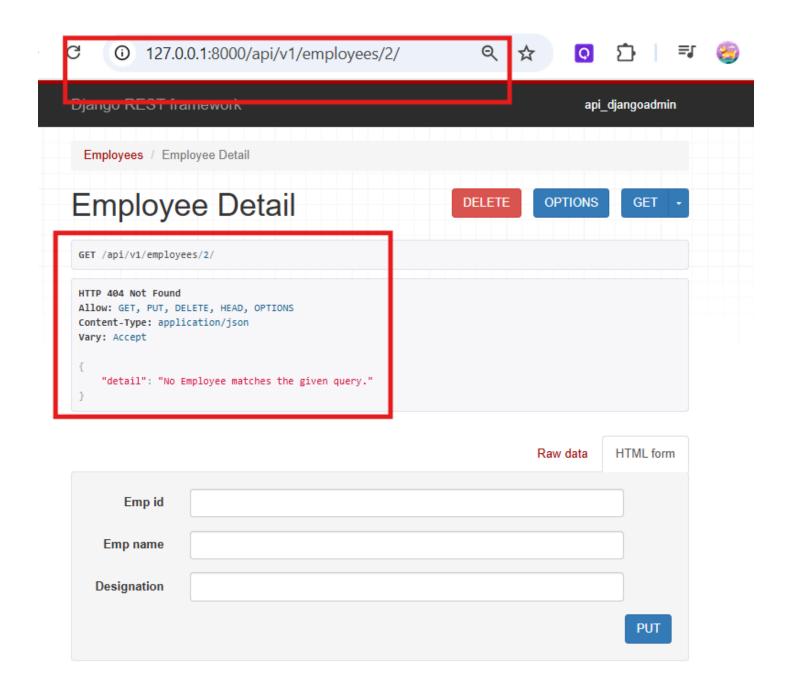
HTML form

7. To delete a specific record.



8. To test and delete record 2,





9.

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