

Sign in



JothikrishnaaVengatesan / ORM Public

forked from [selvasachein/ORM](#)

[Code](#) [Pull requests](#) [Actions](#) [Projects](#) [Security](#) [Insights](#)

Files

main

ORM / README.md



JothikrishnaaVengatesan

13

5 hours ago



53 lines (42 loc) · 1.32 KB

Preview

Code

Blame

Raw



# Ex02 Django ORM Web Application

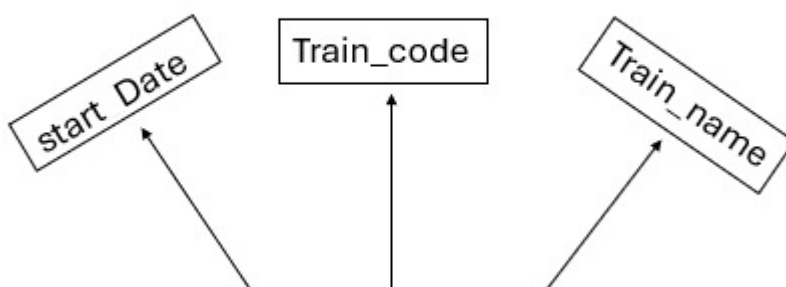
## Date:

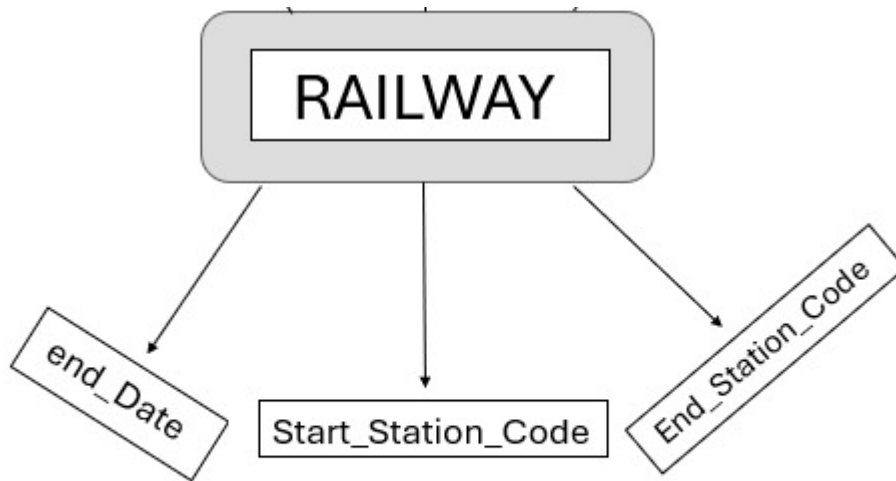
15/03/2024

## AIM

To develop a Django application to store and retrieve data from a Railway database using Object Relational Mapping(ORM).

## Entity Relationship Diagram





## DESIGN STEPS

---

### STEP 1:

Clone the problem from GitHub

### STEP 2:

Create a new app in Django project

### STEP 3:

Enter the code for admin.py and models.py

### STEP 4:

Execute Django admin and create details for 10 books

## PROGRAM

---

### models.py

```
from django.db import models
from django.contrib import admin
class Railway(models.Model):
    Train_code=models.IntegerField(primary_key=True)
    Train_Name=models.CharField(max_length=100)
    start_Date=models.DateTimeField()
    end_Date=models.DateTimeField()
```



```
Start_Station_Code=models.CharField(max_length=20)
End_Station_Code=models.CharField(max_length=20)
```

```
class RailwayAdmin(admin.ModelAdmin):
    list_display=('Train_code','Train_Name','start_Date','end_Date','Start_
```

## admin.py

```
from django.contrib import admin
from .models import Railway,RailwayAdmin
admin.site.register(Railway,RailwayAdmin)
```


## OUTPUT

The screenshot displays the Django administration interface for a railway management system. The page title is "Django administration" and the user is "ADMIN1". A green message at the top indicates that a railway object was added successfully. Below this is a table titled "Select railway to change" with columns: TRAIN NO, TRAIN NAME, START DATE, END DATE, START STATION CODE, and END STATION CODE. The table lists 10 railways, including Trichi Express, Arakonam Local, Katpadi, Tripati, Yelagiri Express, Mysore Express, Bangaluru Express, Saveetha Express, Arakonam Express, and Vellore Express. A sidebar on the left shows the navigation menu with "ORMAPP" and "Railways" highlighted. The bottom of the image shows a Windows taskbar and a VS Code terminal window with the command history for setting up the project.

TRAIN NO	TRAIN NAME	START DATE	END DATE	START STATION CODE	END STATION CODE
10	Trichi Express	March 15, 2024, 8:20 a.m.	March 15, 2024, 2:30 p.m.	Chennai Central	Trichirappalli
9	Arakonam Local	March 15, 2024, 8:20 a.m.	March 15, 2024, 10:30 a.m.	Chennai Central	Arakonam Junction
8	Katpadi	March 15, 2024, 10 a.m.	March 15, 2024, 1 p.m.	Chennai Central	Katpadi Junction
7	Tripati	March 15, 2024, 4:40 a.m.	March 15, 2024, 8:10 a.m.	Chennai	Tripati
6	Yelagiri Express	March 15, 2024, 4:04 a.m.	March 15, 2024, 8:10 a.m.	Chennai	Yelagiri
5	Mysore Express	March 15, 2024, 4:04 a.m.	March 15, 2024, 10:29 a.m.	Chennai	Mysore
4	Bangaluru Express	March 15, 2024, 4:04 a.m.	March 15, 2024, 9:10 a.m.	Chennai	Bengaluru
3	Saveetha Express	March 15, 2024, 4:04 a.m.	March 15, 2024, 5:10 a.m.	Chennai	Saveetha
2	Arakonam Express	March 15, 2024, 4:04 a.m.	March 15, 2024, 10:10 a.m.	Chennai	Arakonam
1	Vellore Express	March 15, 2024, 4:04 a.m.	March 15, 2024, 10:10 a.m.	Chennai	Vellore

```
PS C:\Users\admin> env\scripts\activate
PS C:\Users\admin> git clone https://github.com/JothikrishnaaVengatesan/ORM.git
Cloning into 'ORM'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 12 (delta 3), reused 1 (delta 1), pack-reused 8
Receiving objects: 100% (12/12), done.
Resolving deltas: 100% (3/3), done.
PS C:\Users\admin> cd ORM
PS C:\Users\admin\ORM> django-admin startproject jothikrishnaa
PS C:\Users\admin\ORM> cd jothikrishnaa
PS C:\Users\admin\ORM\jothikrishnaa> python manage.py startapp ormapp
PS C:\Users\admin\ORM\jothikrishnaa> cd ..
```

```
(env) PS C:\Users\admin\orm> code .
(env) PS C:\Users\admin\orm> cd jothikrishnaa
(env) PS C:\Users\admin\orm\jothikrishnaa> python manage.py makemigrations
```



## RESULT

---

Thus the program for creating a database using ORM has been executed successfully