

Day:29

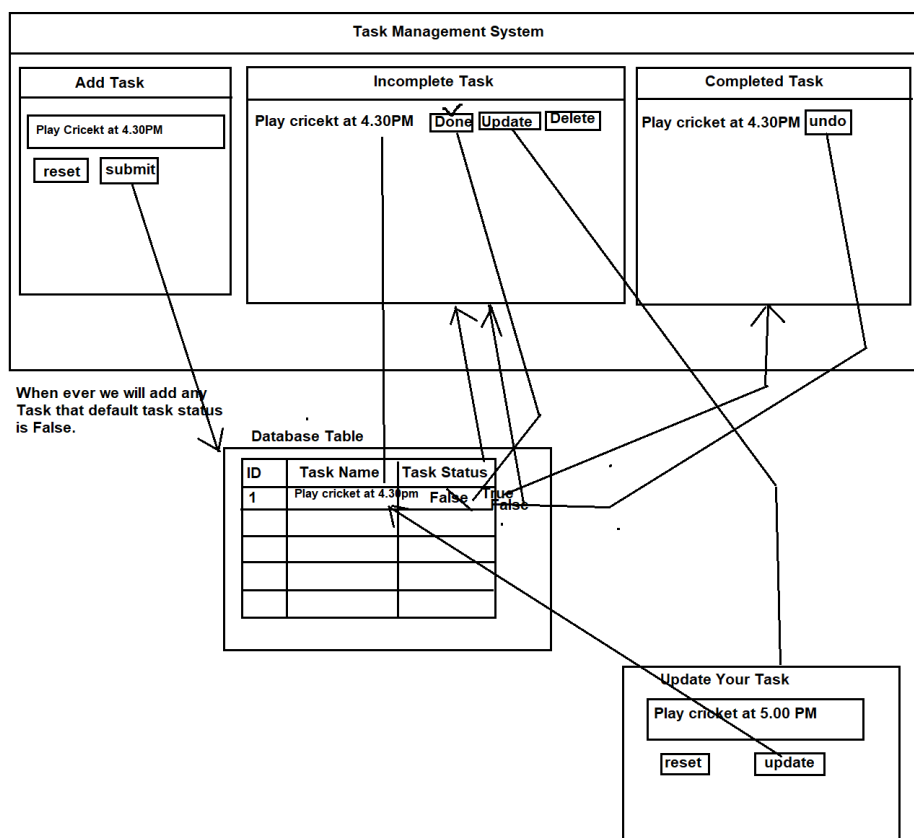
Date: 01/07/2024

## Minor project on “Task Management System using Django Framework”

### SDLC :: Software Development Life Cycle

1. Plan
2. Design
3. Implementation
4. Testing
5. Deployment
6. Maintenance

Design :



## Implementation:

Step 1: Common steps

Step 2: Design the home page

Step 3: Define the model

Models.py

```
from django.db import models

# Create your models here.

class TaskDetail(models.Model):

    task_name = models.CharField(max_length=100)

    task_status = models.BooleanField(default=False)
```

Database configurations

Execute makemigrations and migrate command

Step 4: Register your model inside admin.py

Admin.py

```
from django.contrib import admin

from .models import TaskDetail

# Register your models here.

@admin.register(TaskDetail)

class TaskDetailAdmin(admin.ModelAdmin):

    list_display = ('id', 'task_name', 'task_status')
```

Create superuser, login to Django admin interface then add some task

Step 5: views.py

```
from django.shortcuts import render

from .models import TaskDetail

# Create your views here.

def home_view(request):

    incomplete_task = TaskDetail.objects.filter(task_status=False)

    completed_task = TaskDetail.objects.filter(task_status=True)

    context={

        'incomplete_task':incomplete_task,
```

```
        'completed_task': completed_task,
    }
    return render(request, 'TaskApp/home.html', context)
```

Step 6:

```
from django.urls import path
from . import views
urlpatterns = [
    path('home/', views.home_view),
]
```

Step 7:

Home.html

```
<!doctype html>
<html Lang="en">
    <head>
        <meta charset="utf-8">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <title>Task App</title>
        <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU90FeRpok6YctnYmDr5pN1yT2bRjXh0JMh jY6hW+ALEwIH " crossorigin="anonymous">
    </head>
    <body>
        <h3 class='text-center bg-dark text-white p-1'>Task Management System</h3>
        <div class="container-fluid text-center">
            <div class="row">
                <div class="col-3">
                    <div class="card">
                        <h5 class="card-header bg-primary text-white">Add Task</h5>
                        <div class="card-body">
                            <h5 class="card-title">Special title treatment</h5>
```

```
<p class="card-text">With supporting text below as a natural lead-in to
additional content.</p>
<a href="#" class="btn btn-primary">Go somewhere</a>
</div>
</div>
</div>
<div class="col-5">
  <div class="card">
    <h5 class="card-header bg-warning">Incomplete Task</h5>
    <div class="card-body">
      {% for i in incomplete_task %}
        <p>{{ i.task_name }} <a href="#" class="btn btn-primary btn-
sm">Done</a> <a href="#" class="btn btn-warning btn-sm">Update</a> <a href="#" class="btn
btn-danger btn-sm">Delete</a></p>
        {% endfor %}
      </div>
    </div>
  </div>
<div class="col-4">
  <div class="card">
    <h5 class="card-header bg-success text-white">Completed Task</h5>
    <div class="card-body">
      {% for i in completed_task %}
        <p>{{ i.task_name }} <a href="#" class="btn btn-success btn-
sm">Undo</a> </p>
        {% endfor %}
      </div>
    </div>
  </div>
</div>
</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js "
```

```
integrity="sha384-YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDz0xhy9GkcIdslK1eN7N6jIeHz "  
crossorigin="anonymous"></script>  
  
</body>  
</html>
```