Experiment-10

For students enrolment developed in Module 2, create a generic class view which displays list of students and detail view that displays student details for any selected student in the list.

Step-1: First, let's create models for Student and Course if you haven't already:

Models.py

```
class Student(models.Model):
    first_name = models.CharField(max_length=255, default=")
    last_name = models.CharField(max_length=255, default=")
    email = models.EmailField(unique=True, default=")
    courses = models.ManyToManyField(Course, related_name='students', blank=True)
    project = models.ManyToManyField('Project', related_name='students', blank=True)
```

Step-2: Next, create views for the list and detail views and import necessary packages:

 $from\ django.views.generic\ import\ ListView,\ DetailView$ $class\ StudentListView (ListView):$

```
model = Student

template_name = 'registration/stu_list.html'

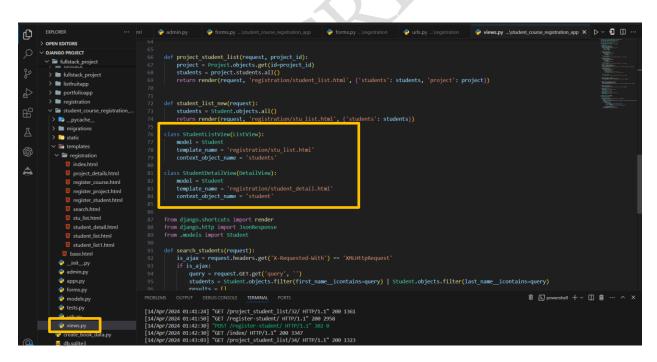
context_object_name = 'students'

class StudentDetailView(DetailView):
```

model = Student

template_name = 'registration/student_detail.html'

context_object_name = 'student'



• In the StudentListView, we've overridden the get_queryset method to filter the students based on the course id parameter in the URL. If the course id is

provided, it will return the students associated with that course; otherwise, it will return all students.

Step-3: Now, let's create the templates:

stu_list.html

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student detail.html

```
{% extends 'base.html' %}

{% block content %}

<div class="container my-5">

<div class="row">

<div class="col-md-6 offset-md-3">

<div class="card">

<div class="card-body">

<h! class="card-title"> Name: {{ student.first_name }} {{ student.last_name }} </h!>

<h! class="card-title"> Email: {{ student.email }} </h!>

</div>

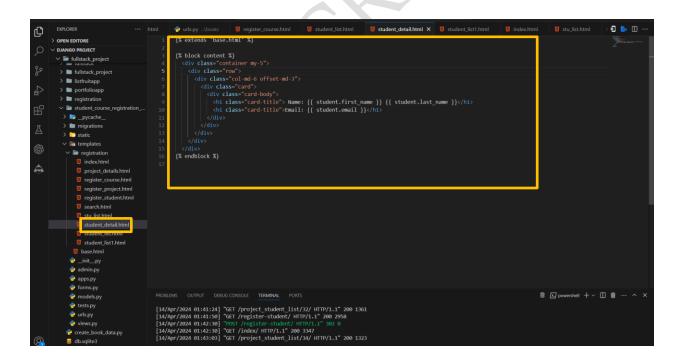
</div>
```

</div>

</div>

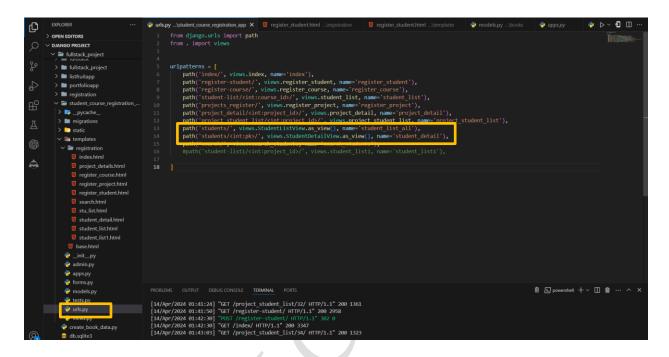
</div>

{% endblock %}



Step-4: add the URL patterns:

```
path('students/', views.StudentListView.as_view(), name='student_list_all'),
path('students/<int:pk>/', views.StudentDetailView.as_view(), name='student_detail'),
```



Step-5: add Index.html For showing the Students In Main Page:

Index.html

```
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Step-6: Run the development server

- In the VS Code terminal, navigate to your Django project's directory (the one containing manage.py).
- Run the development server

python manage.py runserver

• Open your web browser and visit http://127.0.0.1:8000/.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

(env) PS D:\6th sem 2021 scheme\Full Stack\FS lab\Django Project\fullstack_project> python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
April 06, 2024 - 16:02:28
Django version 5.0.4, using setting, 'follstack_project settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

Type or copy this http://127.0.0.1:8000/index/

Final Output By Clicking Register Project and Register Student

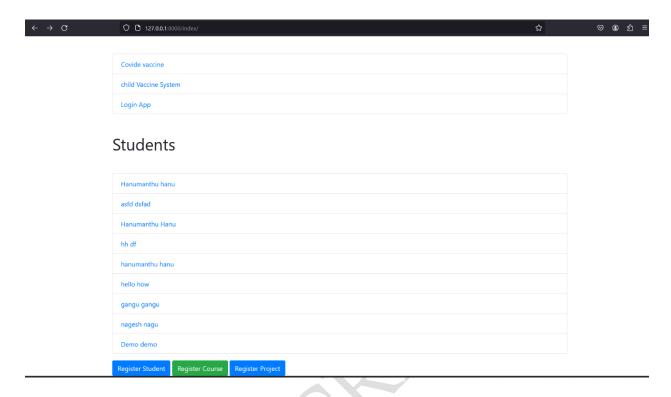


Fig: Main Screen

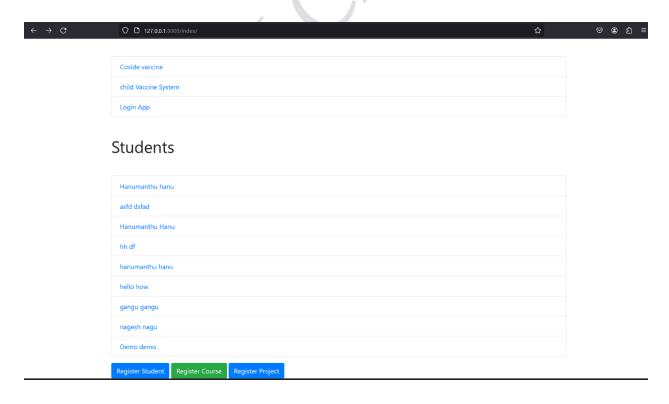


Fig: List View of Students Screen



Fig: Detailed View of Student Screen