நான் முதல்வன்

உலகை வெல்லும் இளைய தமிழகம்

TAMIL NADU SKILL DEVELOPMENT CORPORATION

SKILLS FOR PROGRESS AND PROSPERITY

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VOTING WEB APPLICATION USING DJANGO FRAMEWORK

PROJECT OVERVIEW:

- The Voting Web Application, developed with Django, offers users the ability to create, vote on, and analyze polls efficiently. Leveraging Django's ORM, the application defines models for user management, polls, choices, and votes, ensuring seamless database interactions. Authentication mechanisms provide secure access, while an intuitive admin panel grants administrators control over poll management and user permissions. Users can create polls with specified parameters such as start and end dates, and vote once, with measures in place to prevent duplicate votes. Visual representations of poll results enhance user engagement, while rigorous testing and deployment on scalable platforms ensure reliability, security, and optimal performance even under high traffic loads.

ABSTRACT:

- A voting web application built with the Django framework provides a platform for users to participate in various polls and elections online. It includes features for user authentication, allowing registered users to create, view, and vote on polls. The application also includes an admin interface for managing polls and users, ensuring security and integrity. With Django’s robust framework, developers can easily scale and customize the application to meet specific voting requirements while maintaining reliability and performance.

PROBLEM STATEMENT:

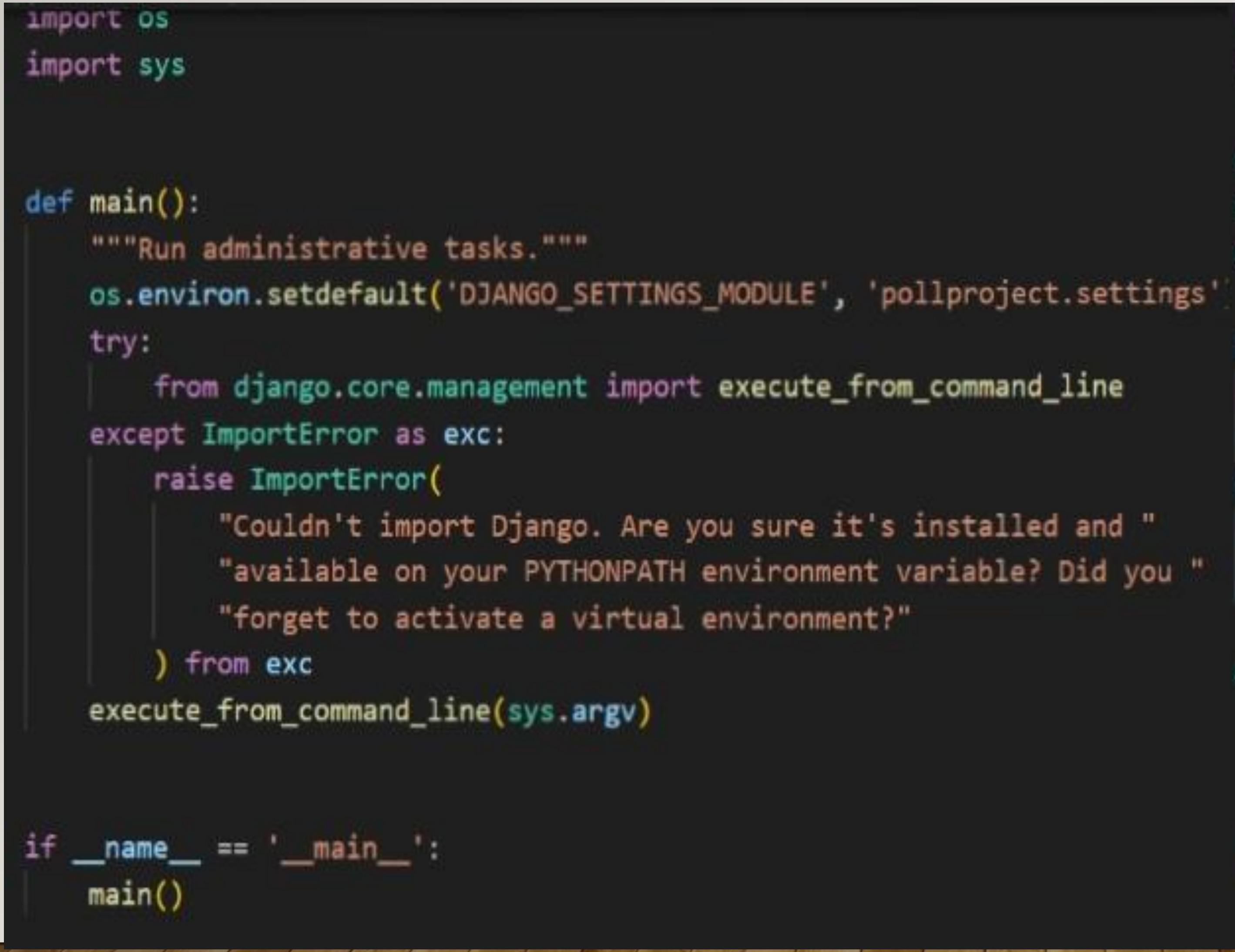
- Design and develop a Django-based web application for secure and efficient online voting, including user registration, authentication, and management of various voting processes such as elections and polls. Ensure robust security measures, intuitive interfaces, and scalability for accommodating a large user base and multiple voting scenarios.

VOTING APPLICATION:

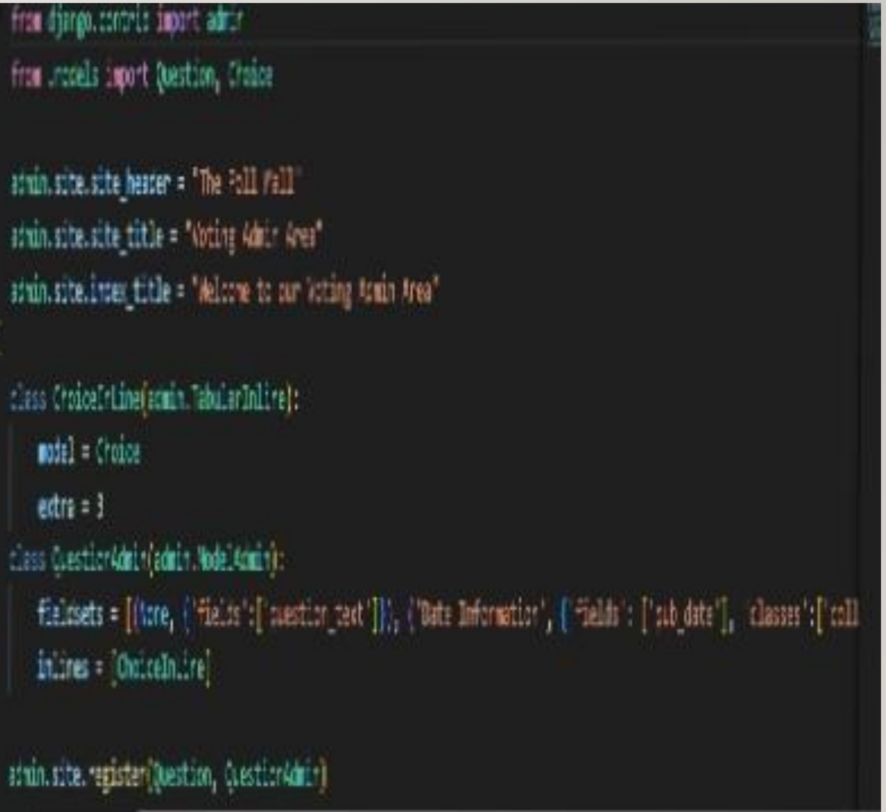
- Built with a focus on user engagement and security, it ensures a transparent and accessible voting process for all participants
- This innovative tool is designed to facilitate democratic engagement and decision-making across diverse groups, fostering a participatory culture in any setting.
- With Django’s built-in administration interface, you can easily manage the polls and choices

TECHNOLOGY USED:

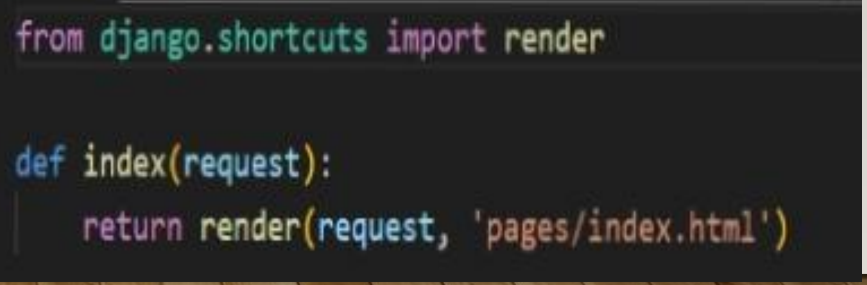
CODING:



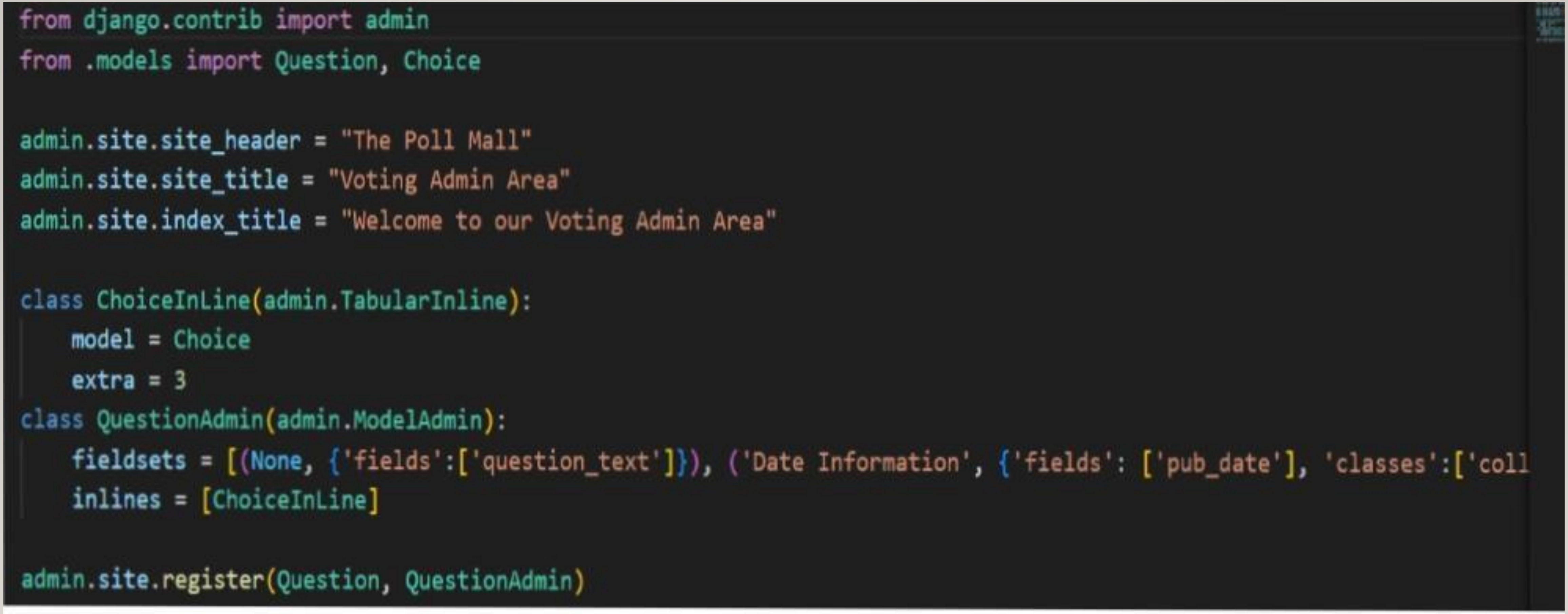
```
import os
import sys


def main():
    """Run administrative tasks."""
    os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'pollproject.settings')
    try:
        from django.core.management import execute_from_command_line
    except ImportError as exc:
        raise ImportError(
            "Couldn't import Django. Are you sure it's installed and "
            "available on your PYTHONPATH environment variable? Did you "
            "forget to activate a virtual environment?"
        ) from exc
    execute_from_command_line(sys.argv)


if __name__ == '__main__':
    main()
```



```
from django.contrib import admin
from .models import Question, Choice


admin.site.site_header = "The Poll Hall"
admin.site.site_title = "Voting Admin Area"
admin.site.index_title = "Welcome to our Voting Admin Area"


class ChoiceInLine(admin.TabularInline):
    model = Choice
    extra = 3
class QuestionAdmin(admin.ModelAdmin):
    fieldsets = [(None, {'fields':['question_text']}), ('Date Information', {'fields': ['pub_date'], 'classes':['coll
    inlines = [ChoiceInline]


admin.site.register(Question, QuestionAdmin)
```



```
from django.shortcuts import render


def index(request):
    return render(request, 'pages/index.html')
```



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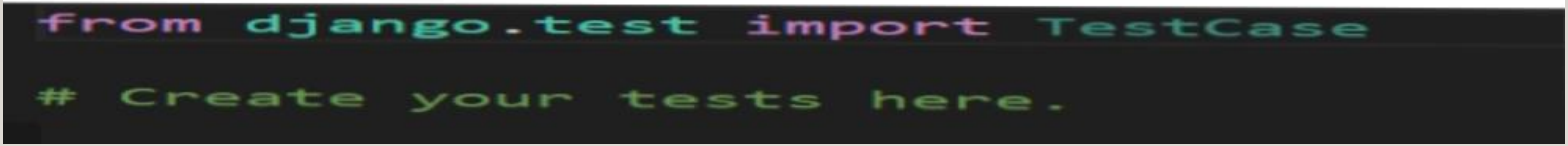
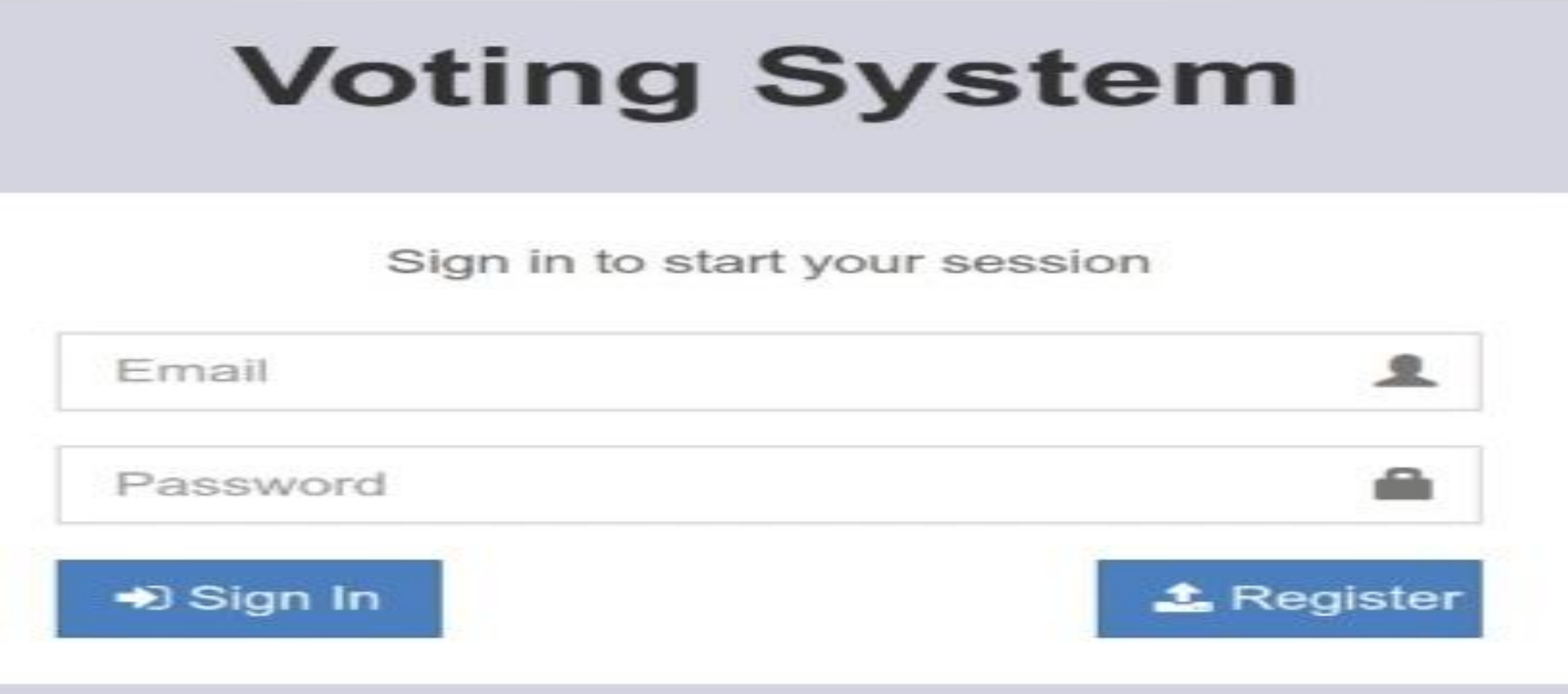


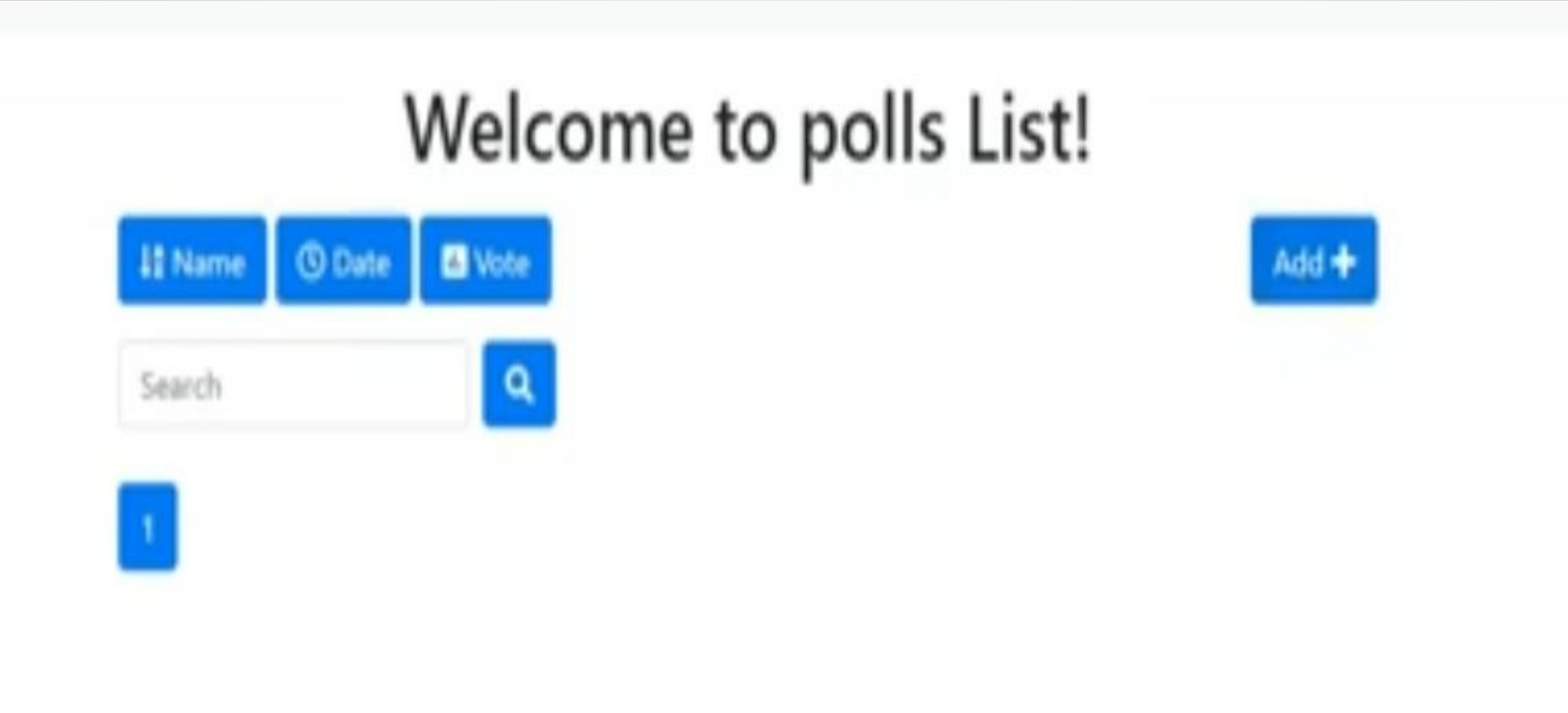
```
from django.test import TestCase

# Create your tests here.
```

OUTPUT:

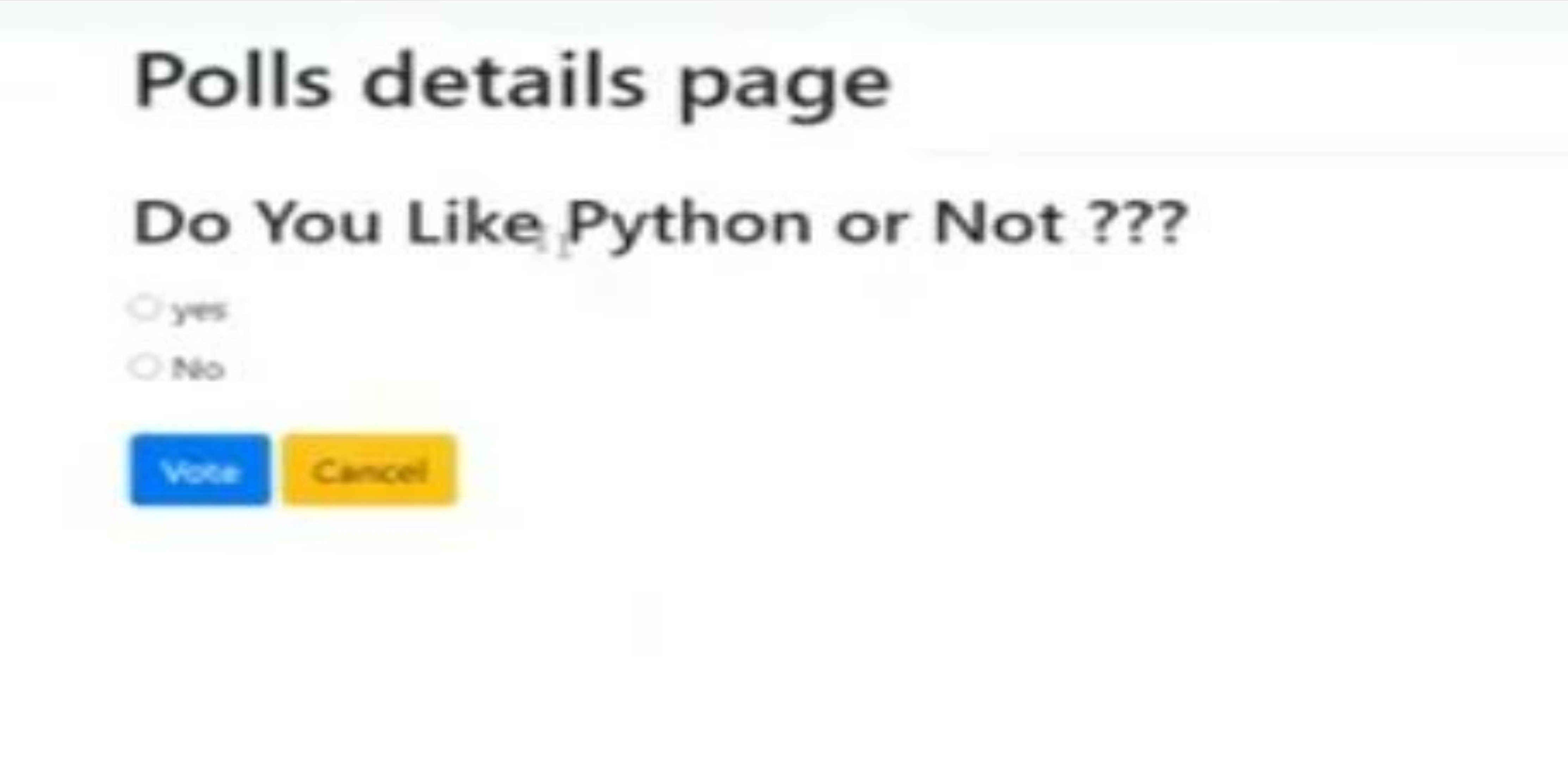


Voting System

Sign in to start your session



Welcome to polls List!

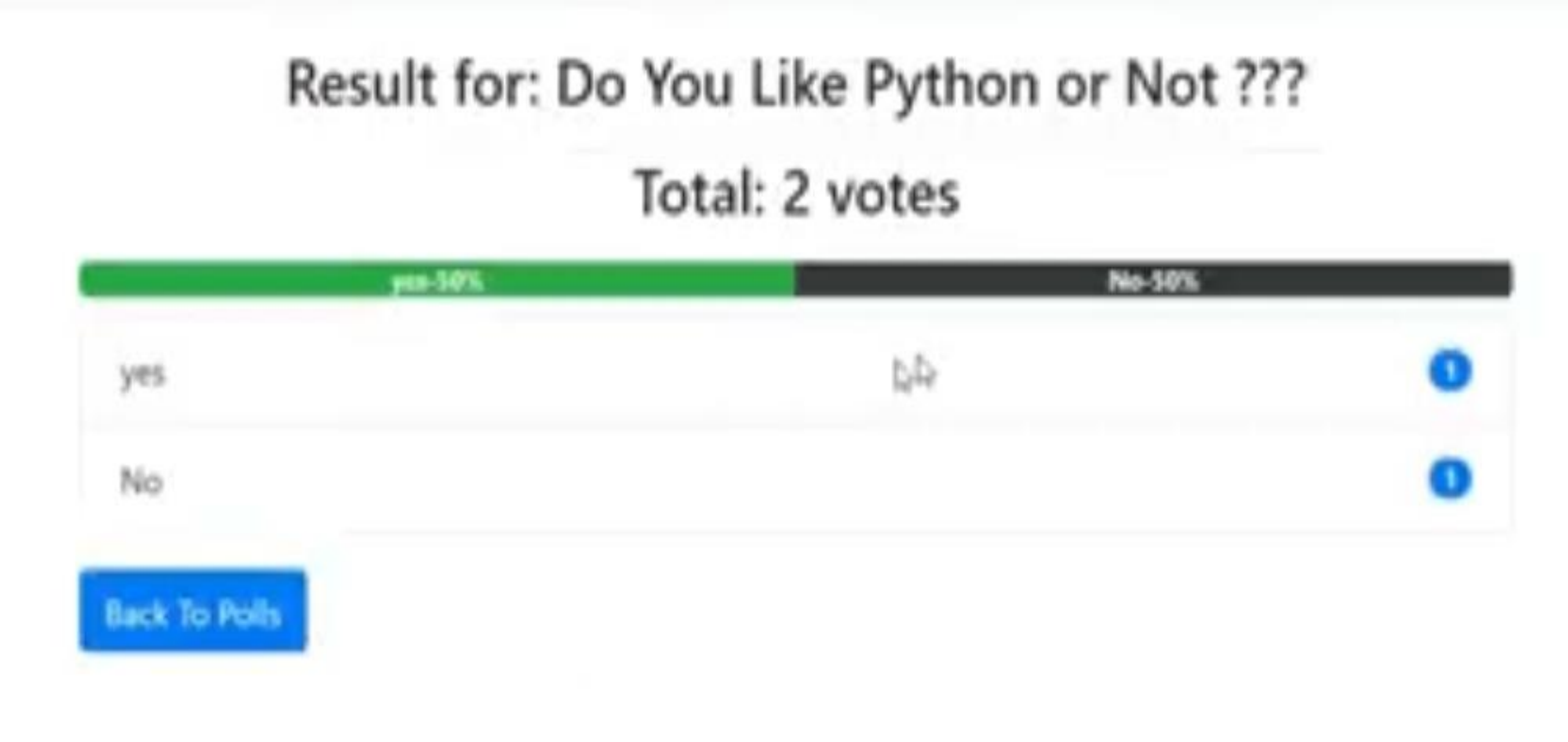


Polls details page

Do You Like Python or Not ???

○ yes

○ No



Result for: Do You Like Python or Not ???

Total: 2 votes

yes-50% No-50%

yes 1

No 1

THANK YOU