

**Kubernetes Version : 1.29.3**

**Django version : 3.1**

**Python : 3.8**

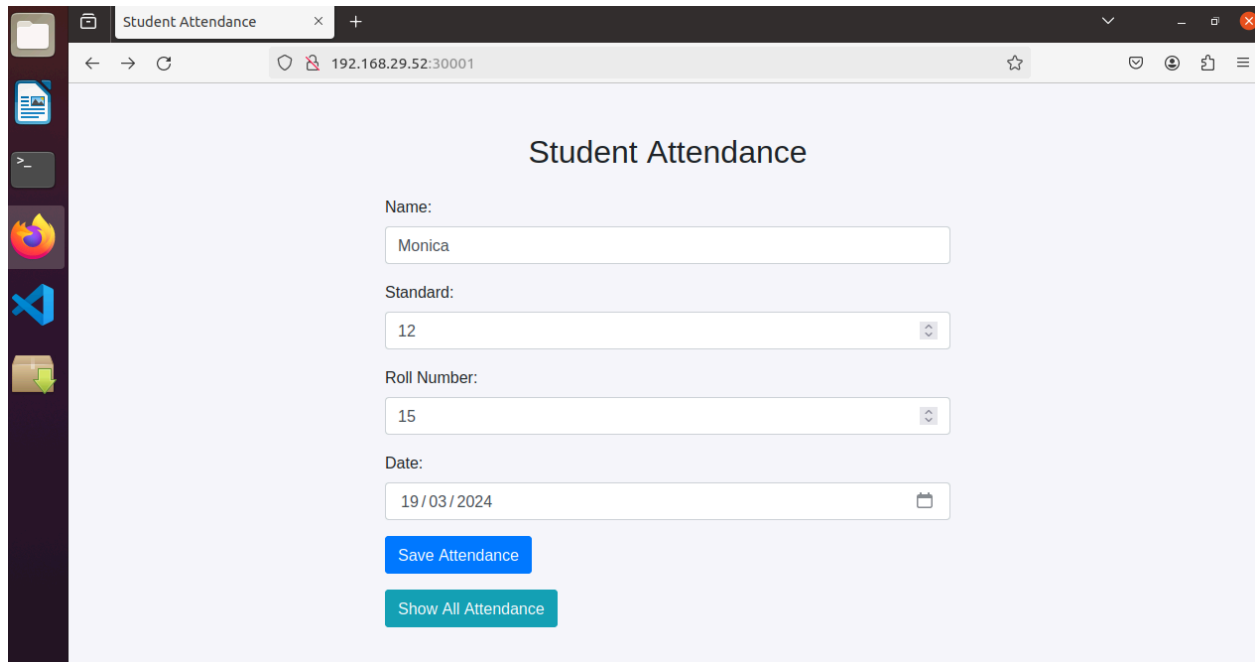
- I have created a simple webpage, where users can record and see the attendance.
- Once the attendance is submitted, it will store the record in a postgres database.
- Users can also view all the saved records.
- I have all created all the dockerfile required to package the application.
- Similarly i have also created all the kubernetes manifests files for deploying both webapp and the postgres database.

### Deployment

- I have locally created a multi node cluster with one master and one worker.
- Webapp is deployed on the Master node and the database on the worker node.

- Here are some screen shot of the application running on kubernetes cluster

### Submitting the attendance details



A screenshot of a web browser displaying a form titled "Student Attendance". The form is located at the URL 192.168.29.52:30001. It contains four input fields: "Name" with the value "Monica", "Standard" with the value "12", "Roll Number" with the value "15", and "Date" with the value "19/03/2024". Below the form are two buttons: "Save Attendance" (blue) and "Show All Attendance" (teal).

Student Attendance

Name: Monica

Standard: 12

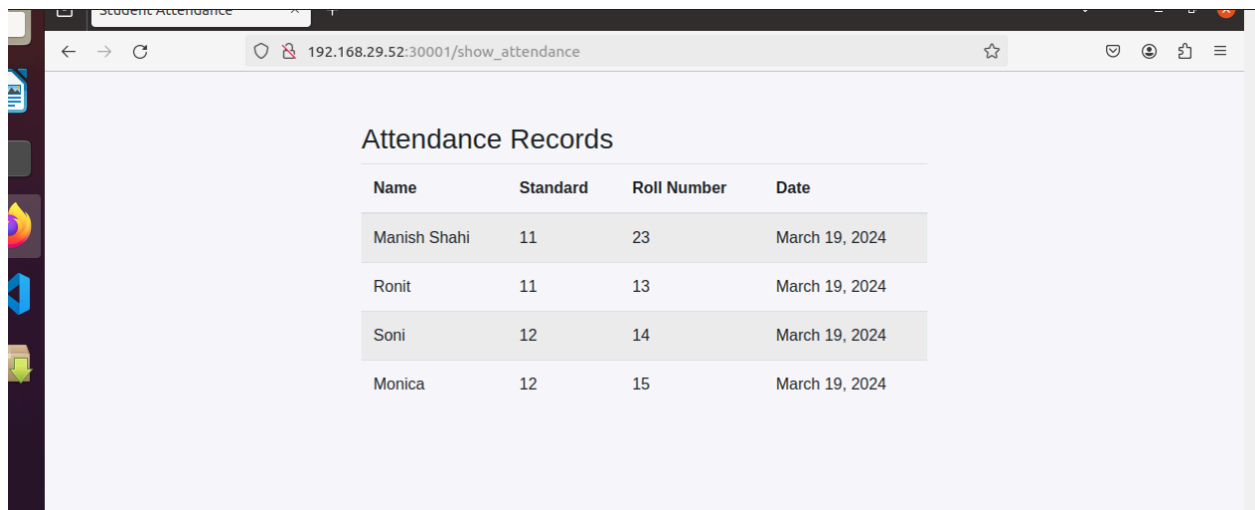
Roll Number: 15

Date: 19/03/2024

Save Attendance

Show All Attendance

### Viewing all the records



A screenshot of a web browser displaying a table titled "Attendance Records". The table is located at the URL 192.168.29.52:30001/show\_attendance. It has four columns: "Name", "Standard", "Roll Number", and "Date". The table contains four rows of data.

Name	Standard	Roll Number	Date
Manish Shahi	11	23	March 19, 2024
Ronit	11	13	March 19, 2024
Soni	12	14	March 19, 2024
Monica	12	15	March 19, 2024