

## Experiment No. 4

**Aim:**

To create an interactive Form using Form widget.

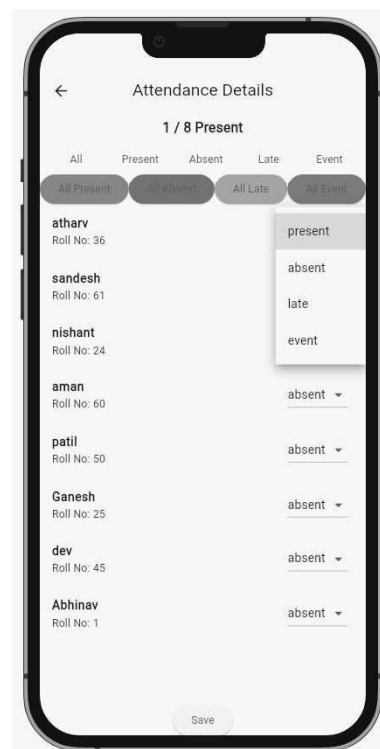
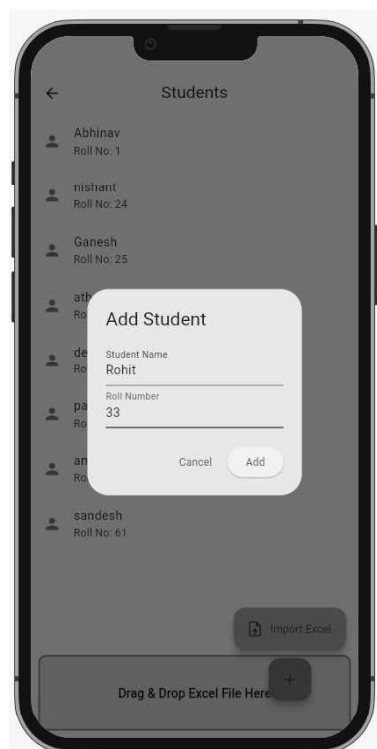
**Theory:**

In this experiment, we implemented interactive form elements in our Manual Attendance App to collect and validate user input. Flutter provides a powerful Form widget along with `TextFormField` and built-in validation support, which was leveraged to design a user-friendly and secure data input system.

In the app, the form was used in features like the Add Student screen, where the teacher inputs student details such as name and roll number. Each input field was wrapped in a Form widget, managed by a `GlobalKey`, and included validators to check for empty inputs and valid formats. Additionally, buttons were conditionally enabled only when the form was valid, improving overall data integrity.

We also added helpful hints, error messages, and UI feedback to guide users in real-time while entering data. This form design minimized errors and ensured clean, structured data entry throughout the app.

**Screenshot:**



Conclusion:

The use of Flutter's Form and TextFormField widgets allowed us to implement dynamic and validated user input features in our app. This significantly improved the app's reliability and provided a smooth experience for teachers when adding or managing student data. The form's structure ensured data consistency and prepared the app for future expansion, such as data storage and user authentication.

GitHub Link:

<https://github.com/atharvnikam38/attendanceapp>