

Introducing An End To End Solution for SAP POINTS CALCULATOR

PROBLEM CODE: 07
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PROBLEM STATEMENT - SURVEYS

Last week, a survey was conducted to gather feedback from both staff and students regarding the difficulties they face in the **SAP point process**.

Staffs

1. Manual calculations
2. Data entry
3. Volume of submissions
4. Time constraints
5. Errors and rework



Students

1. Confusions over marking system
2. Technical issues (printing)
3. Reworks



SOLUTION

A WebApp

- to streamline the submission process
- to reduce errors.
- to provide a more convenient and secure way for students and staff members.
- automatic calculations and data exports
- to manage college activities and scores.

IDEA

1. Admin.

Provide login authentication, visualize all the data of individual students, verify the proofs, automatic point calculations, remove records, export all data as .xls and all proofs as a single zip file, add new events and send email notifications to everyone, on verification intimation of achieved SAP points to the students, theme switching and endless.

2. Client.

Provide authentication only to kongu id, activity entry with proofs with complete validations, receive email notification about events and finalized individual student's activity points, apply for events, responsive UX design.

TECHNOLOGY STACK

- React JS, context API with bootstrap 5 for front end
- firebase real time database and authentications

DEPENDENCIES

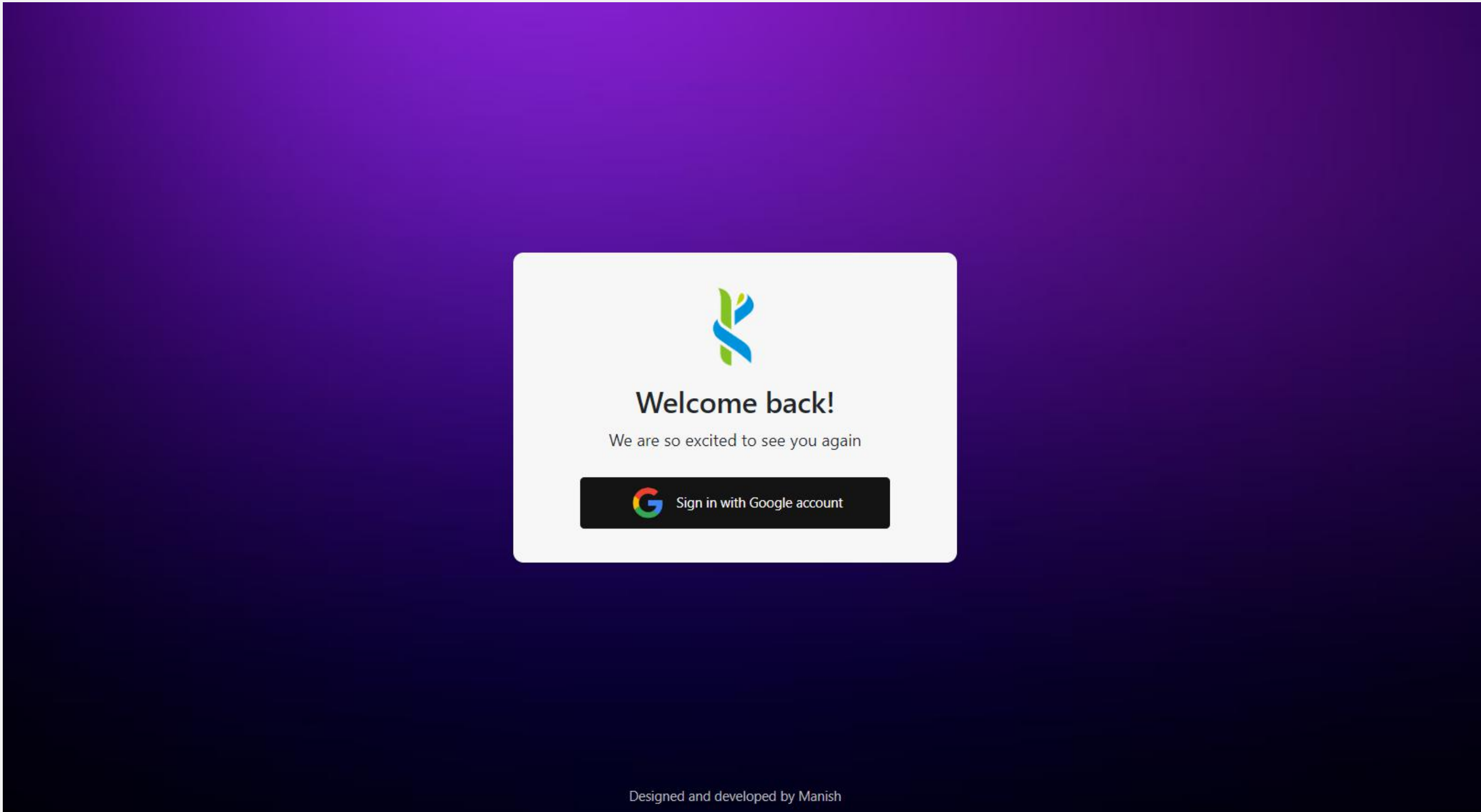
- SMTPJs for real time email notifications.
- Toastify for alerts.
- React router for routing.
- jszip for zipping storage as a zip file
- xlsx for exporting json data as .xls

USE CASE

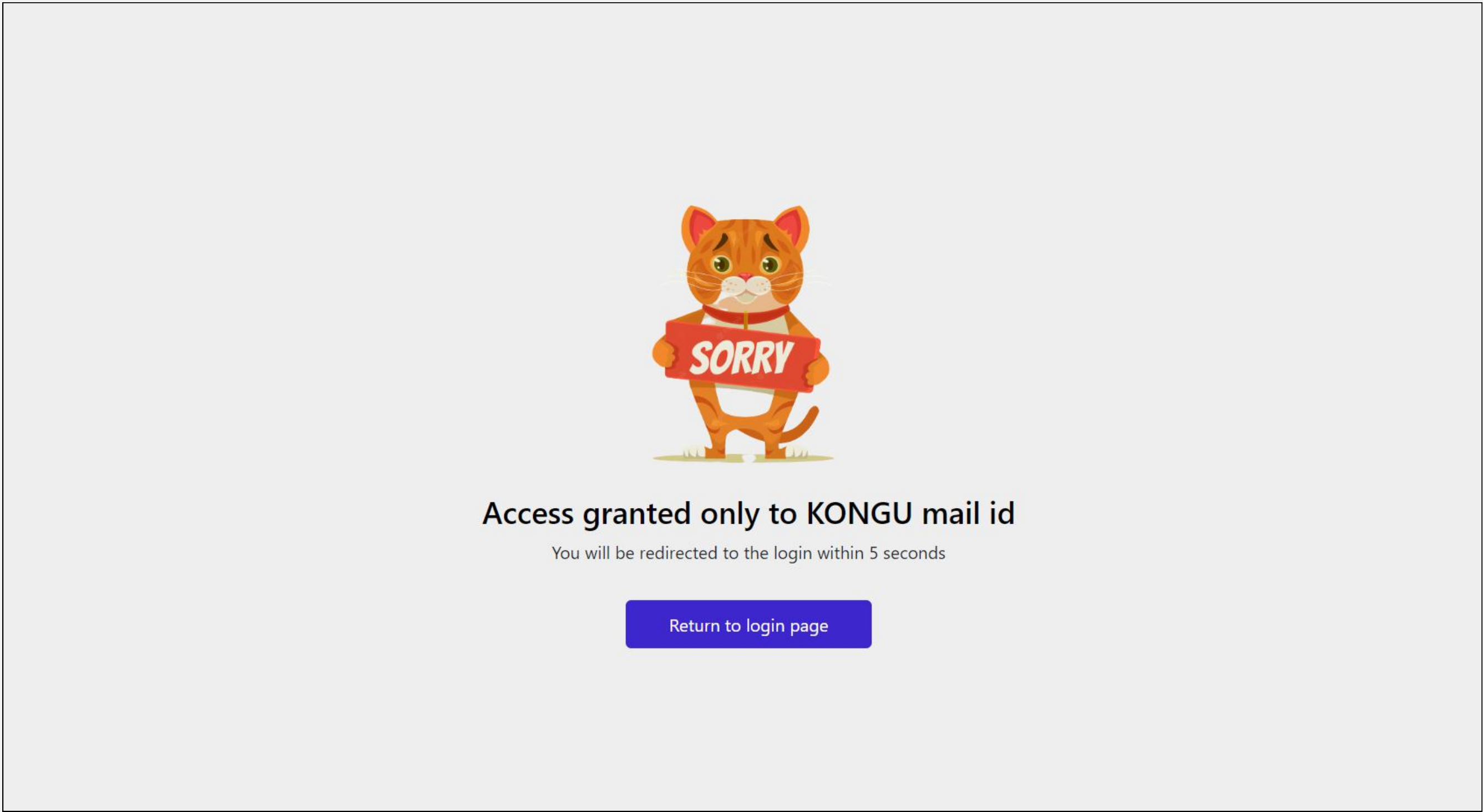
- USERS – standard ux usage, real time data entry with proofs, know the status of application. receive emails.
- STAFFS – (only verification required) fully automated modules, verify and update status, export entire data.

PROTOTYPES

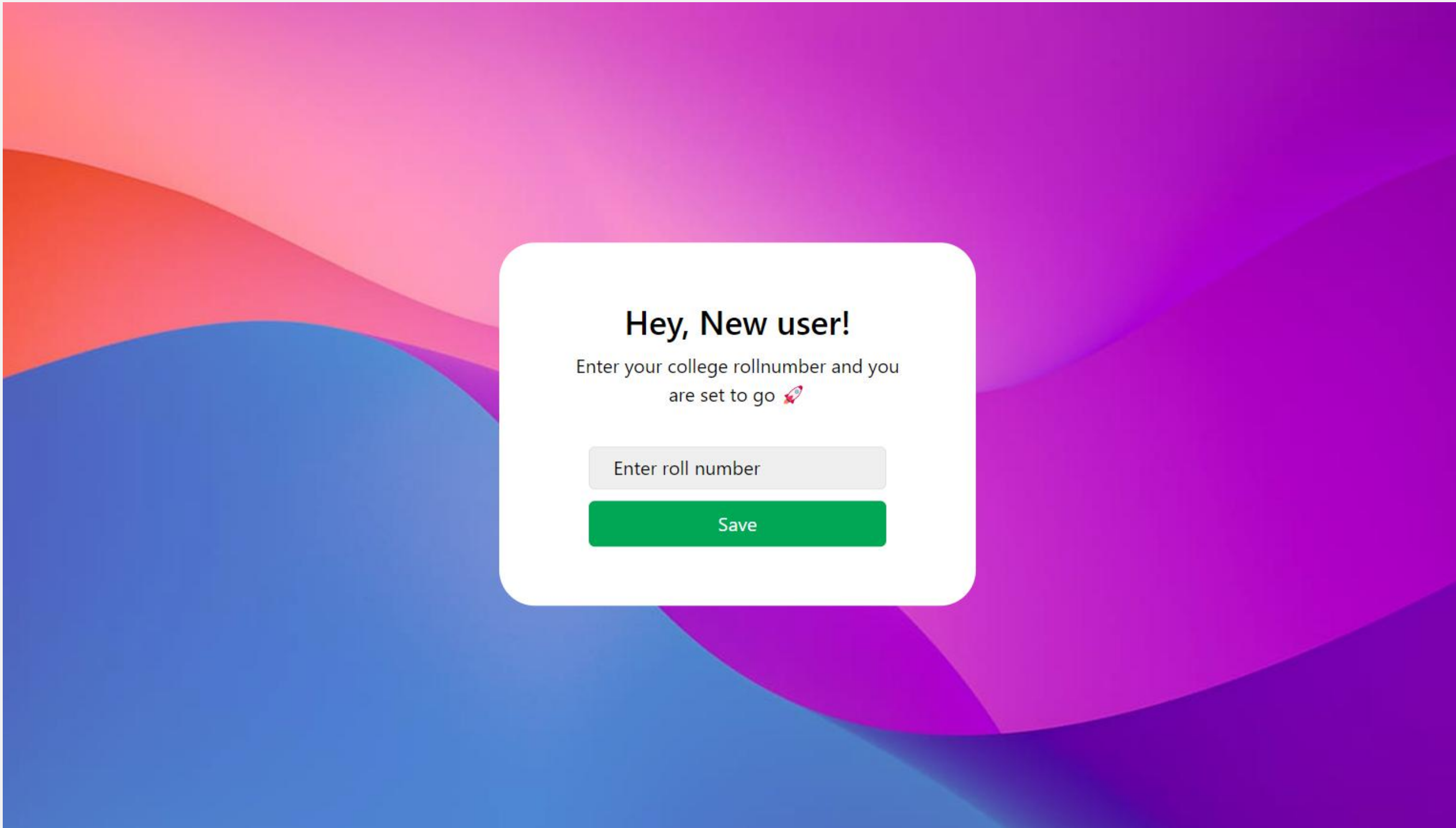
LOGIN PAGE



UNAUTHORIZED



NEW USER



DASHBOARD

