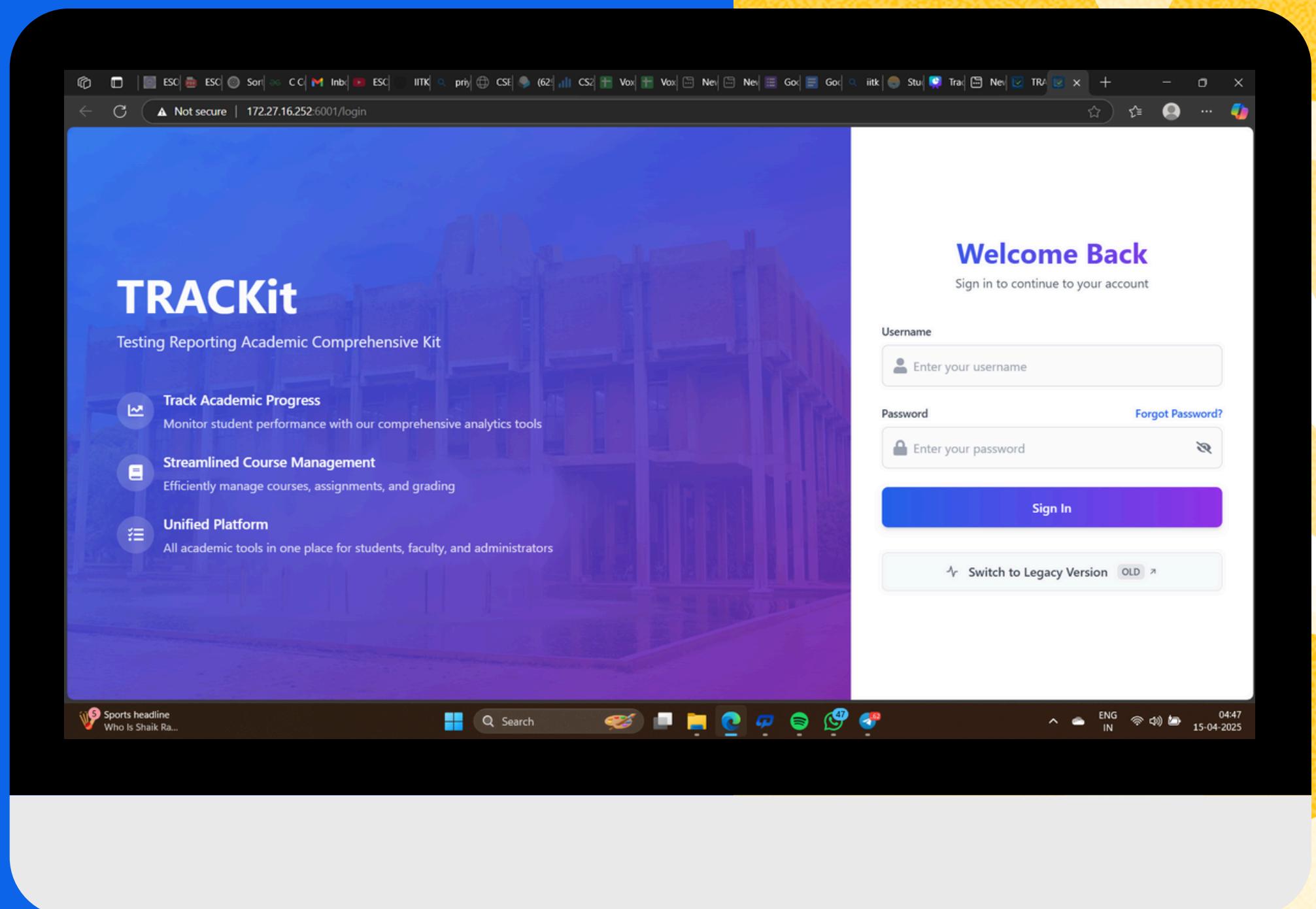


<https://github.com/TRACKit-CS253/TRACKit>



TRACKit

CS253 Course
Project
Team 5
Chill Guys



The screenshot shows a web browser window displaying the TRACKit login page. The URL in the address bar is "Not secure | 172.27.16.252:6001/login". The page has a blue header with the TRACKit logo and the text "Testing Reporting Academic Comprehensive Kit". Below this, there are three main features listed: "Track Academic Progress" (monitoring student performance), "Streamlined Course Management" (efficiently managing courses, assignments, and grading), and "Unified Platform" (all academic tools in one place). To the right, a "Welcome Back" section prompts users to "Sign in to continue to your account". It includes fields for "Username" and "Password", a "Forgot Password?" link, and a "Sign In" button. At the bottom, there is a "Switch to Legacy Version" link and a "Switch" button. The browser's status bar at the bottom shows various icons and the date "15-04-2025".

Why TRACKit ?

- Academic activities are managed across scattered platforms, leading to inefficiencies and confusion.
- TRACKit centralizes course management, lectures, results, attendance, and announcements under one system.





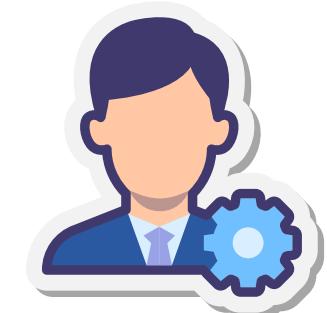
Users

Admin: To create and manage users and courses securely.

Faculty: To manage lectures, results, and announcements efficiently.

Students: To track academics and organize coursework.

01
ADMIN



02
FACULTY



03
STUDENTS





Major Requirements

1

User Management



Admin creates/edit/deletes courses and users.
Secure login and password reset with OTP authentication.

2

Course Management:



Faculty can upload lectures, update FCHs, manage attendance and results.
Students can view course info, lectures, announcements, and results.

3

Forum Services



Students and faculty can post and reply to course-specific doubts and discussions.

4

Announcements and Notifications



Faculty can post important course updates.
Students get real-time notifications with unseen announcement counters.



Major Requirements

5

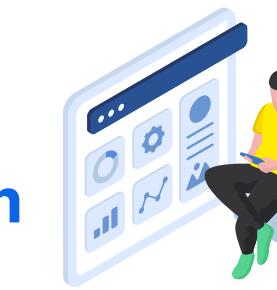
Performance Tracking



Faculty can publish results for the courses.
Student can check their results in real time.
Automatic stats calculation has been implemented.

6

System Admin Dashboard



Admin can create, manage users and courses.
Single admin account ensures security.
Perform the add drop operations on courses.



Non-Functional Requirements

1

Performance



Handle up to 4000 concurrent users.
Ensure response time < 1 second
under normal load, < 3 seconds at
peak times.

2

Portability



Full compatibility with modern
browsers (Chrome, Firefox, Edge,
Safari).
Responsive design for desktops,
laptops, and smartphones

3

Security



Secure login with encrypted
password storage.
Strong password enforcement
and OTP-based password
recovery.

4

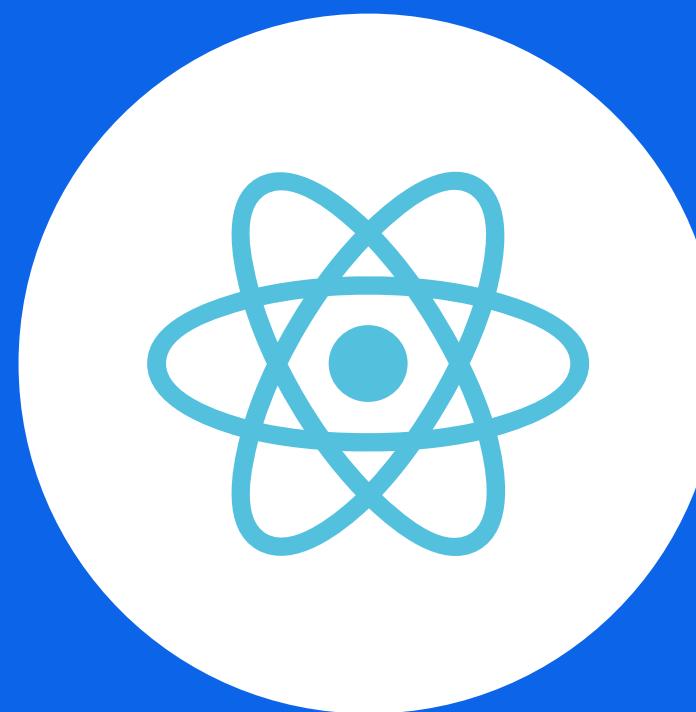
Maintainability



Fix security defects and minor
bugs within 2 working days.



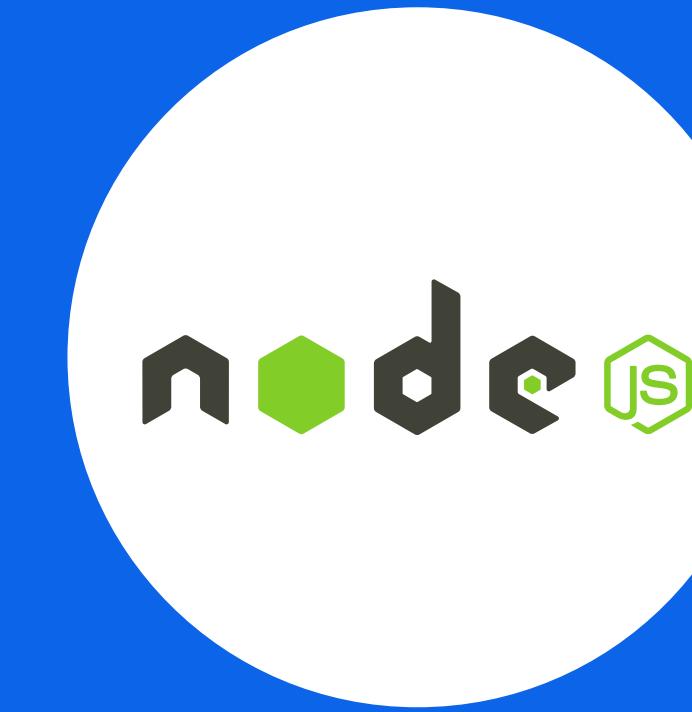
</> Tech Stack



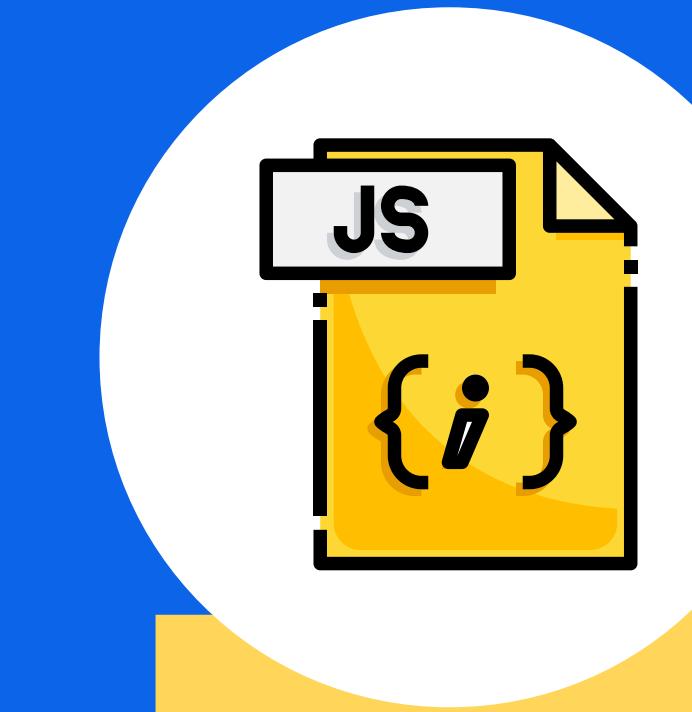
ReactJS



SQL



NodeJS



ExpressJS





Demo



Future Developments



**Mobile App
Launch**



**Interactive
Quizzes and Polls**



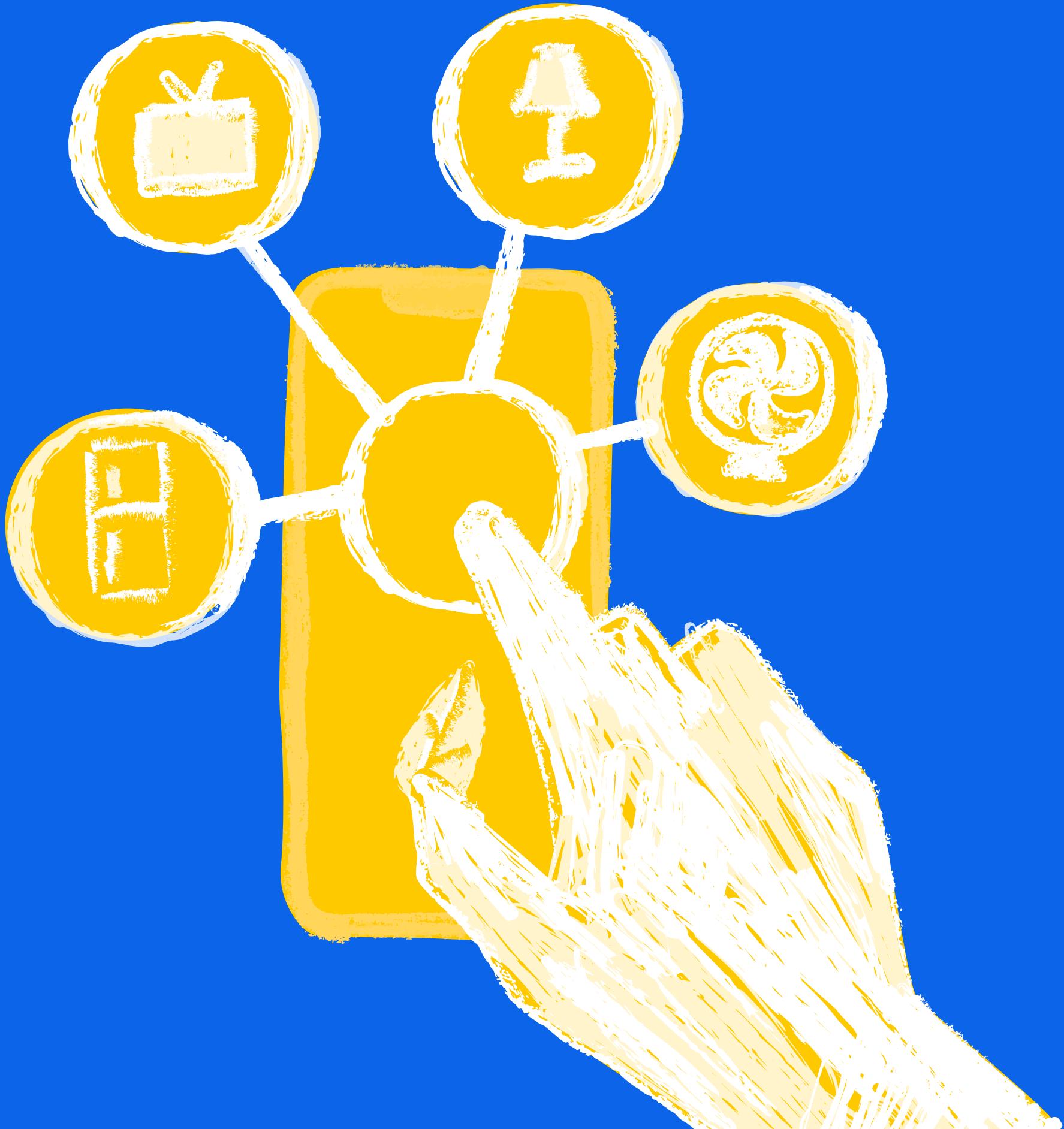
**Study Group and
Team Formation**



**Plagiarism
Detection System**

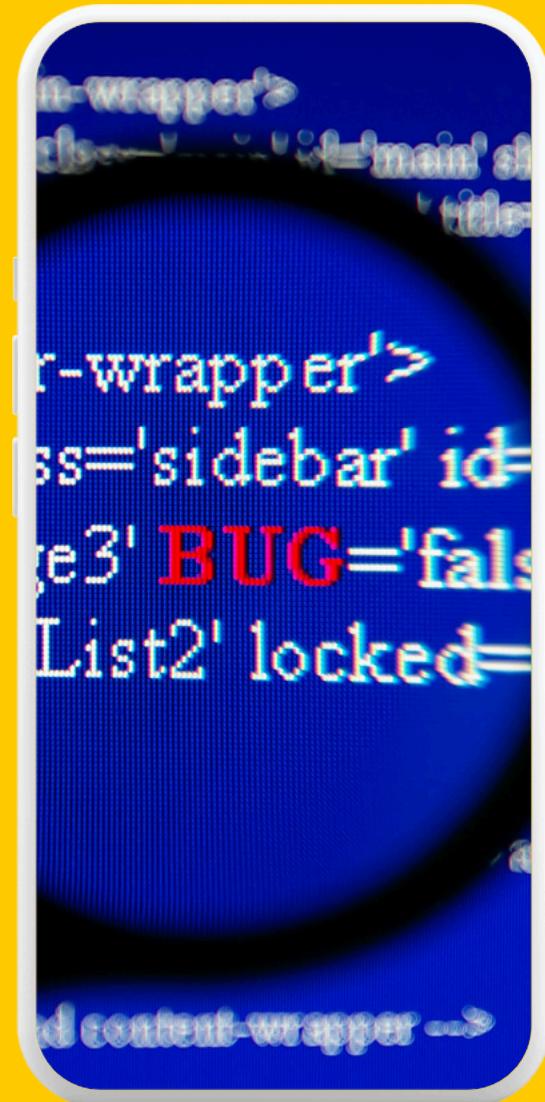


Learnings





Planning Before Execution



Test-First Development

Clear Communication and Collaboration



Flexibility is Important



Our Team



Dhruv Rai



Mayur



Aditya



Ved Prakash



Aayush
Singh



Dhruv
Varshney



Abhijeet



Aryan



Akash
Verma



Rahul



Sharique



QnA



Thank you