



# < EXECUTE-IT />

Real Time Code Collaboration Platform

## Tres-Comas

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# What lead us to develop the platform ?

(Problem Statement)

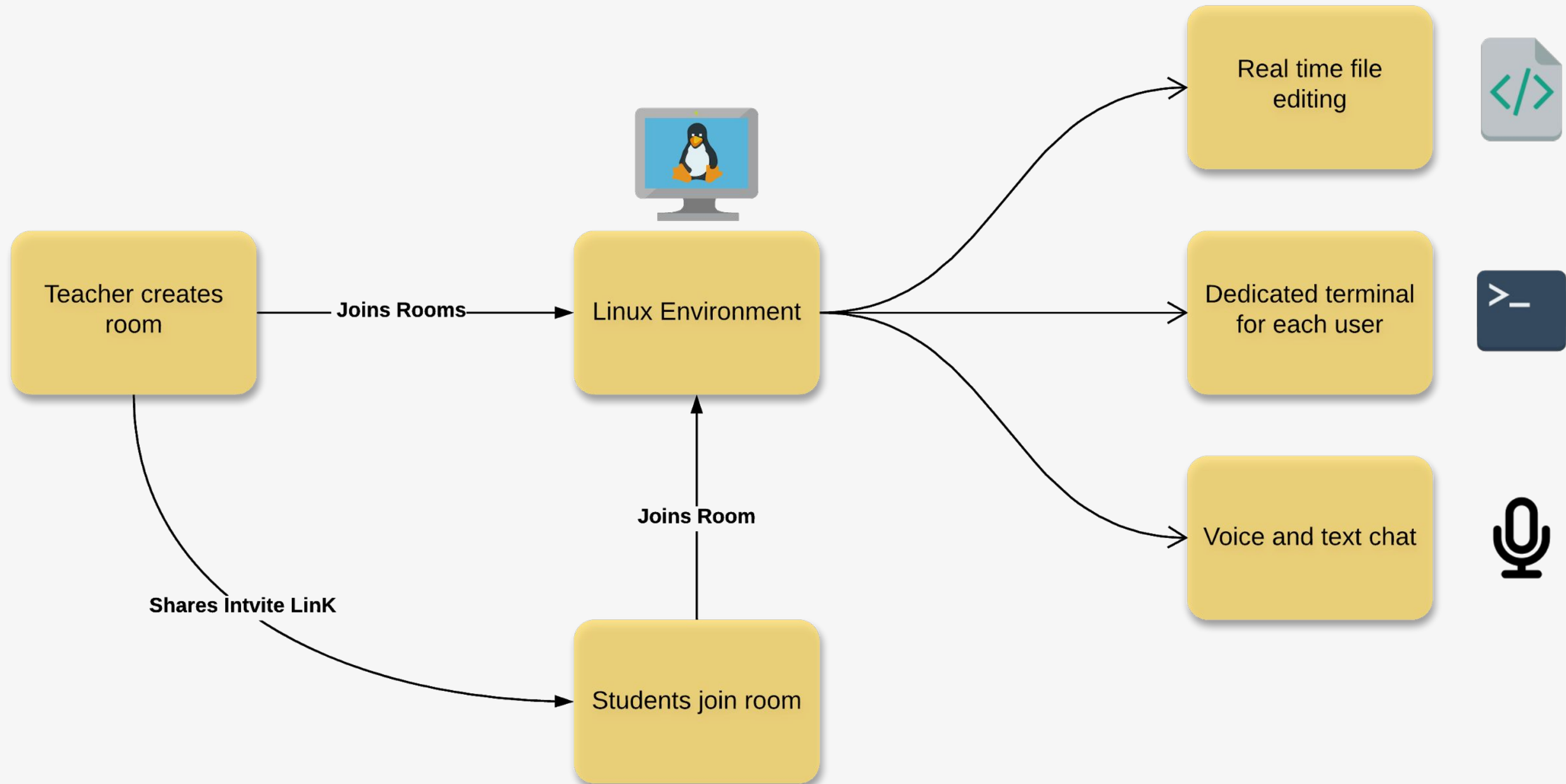


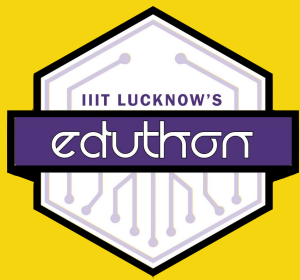
This pandemic has hit us hard, but with time everything is starting to come online so is the case with our colleges. All Coding Practicals are being conducted online, mostly through PPTs and screen sharing, while this way is OK-ish for theory lectures but it becomes really hard to cope up with online Practicals.

## **Some Caveats of current way of online PRACTICAL sessions :**

- All the students does not have same coding environment and some of them don't even have linux installed.
- If the student want to share code or even if teacher wants to share a code, they need to send file which then needs to be run locally,hence consuming more time.
- Debugging and doubt solving in a code is really cumbersome and teacher cannot help student in realtime.
- Poor network connection is the biggest hurdle of all due to which quality of video share maybe bad and code may not be visible clearly.

# PROPOSED SOLUTION



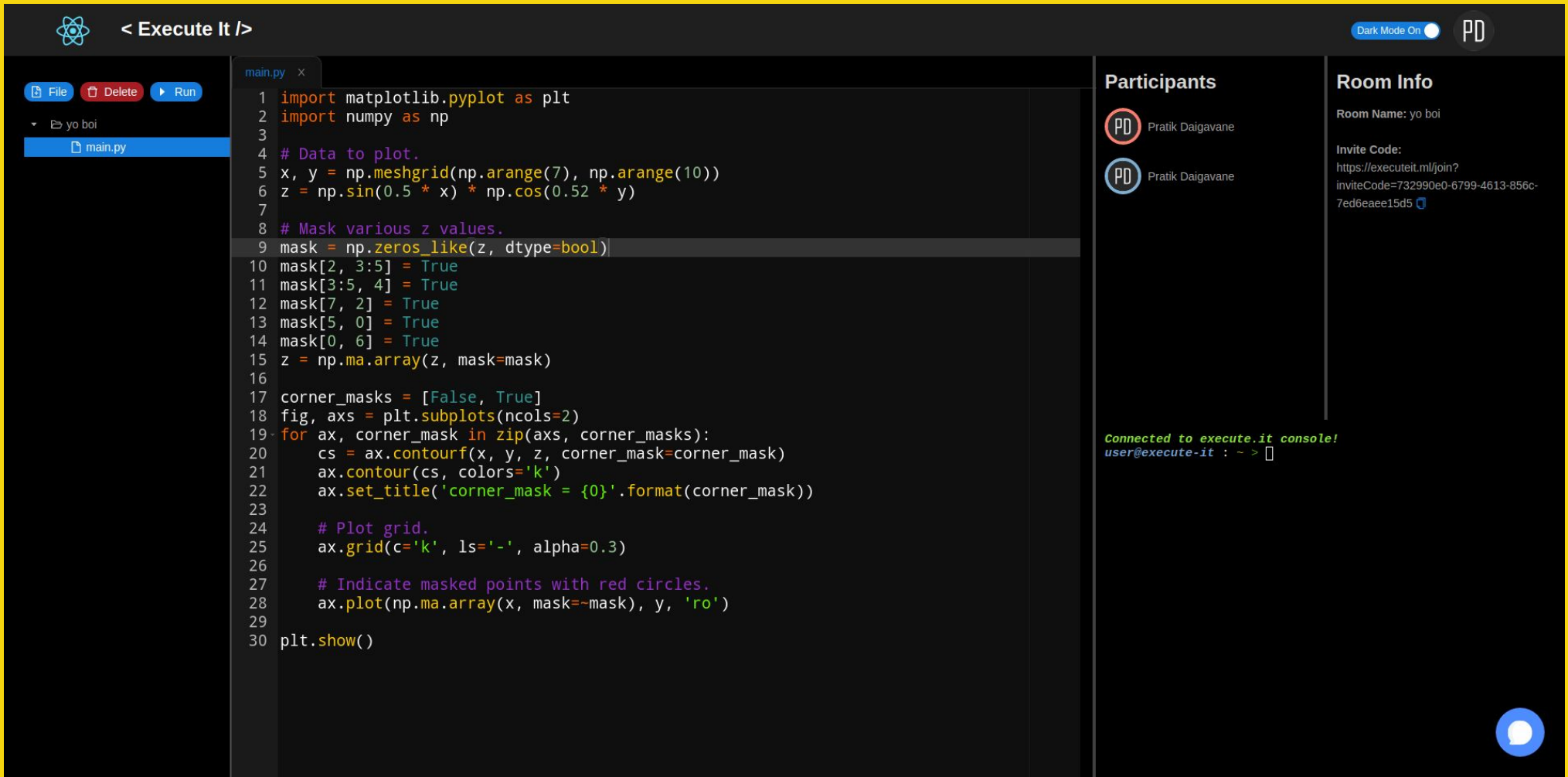
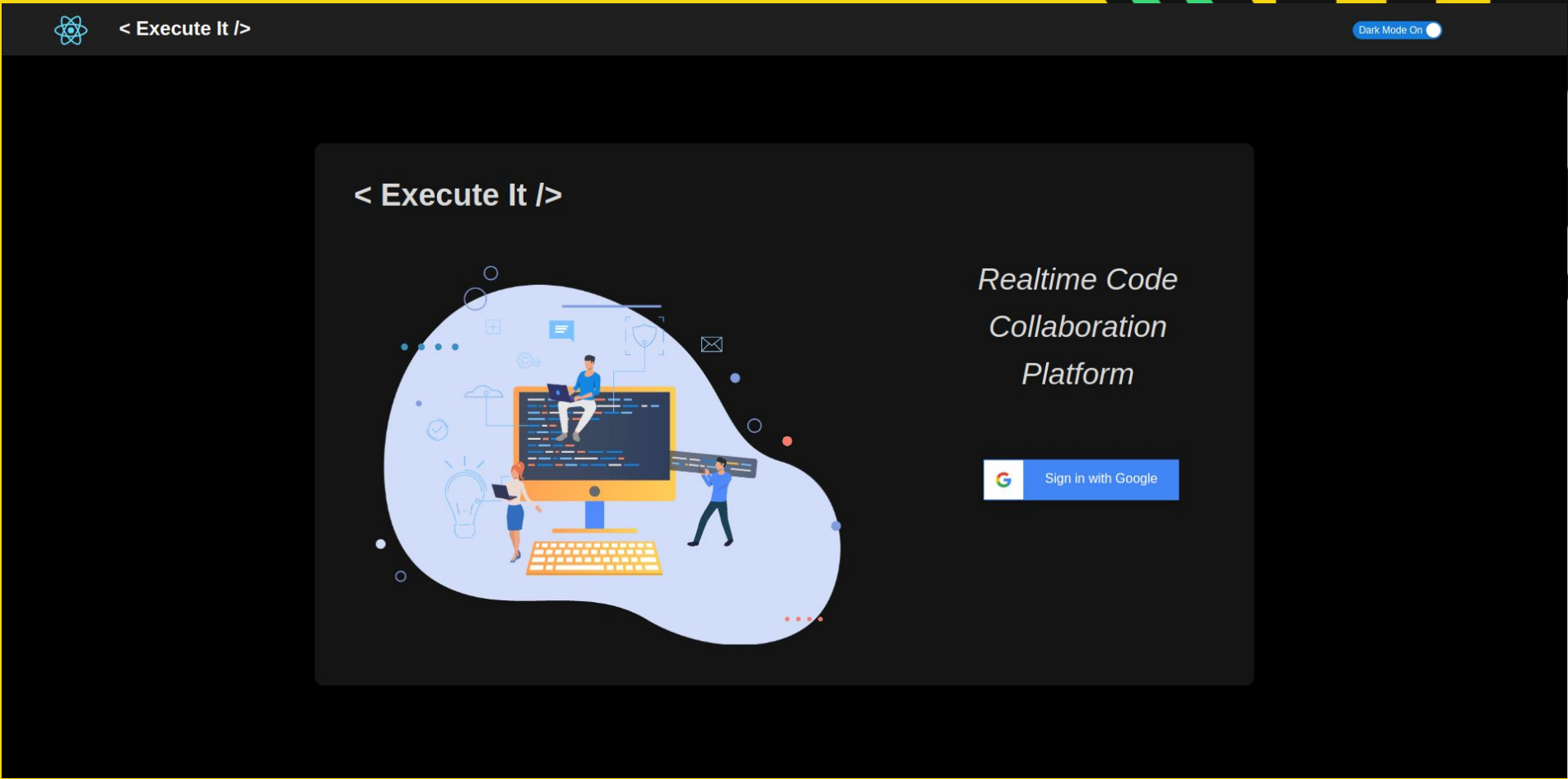


# UNIQUE SELLING POINTS

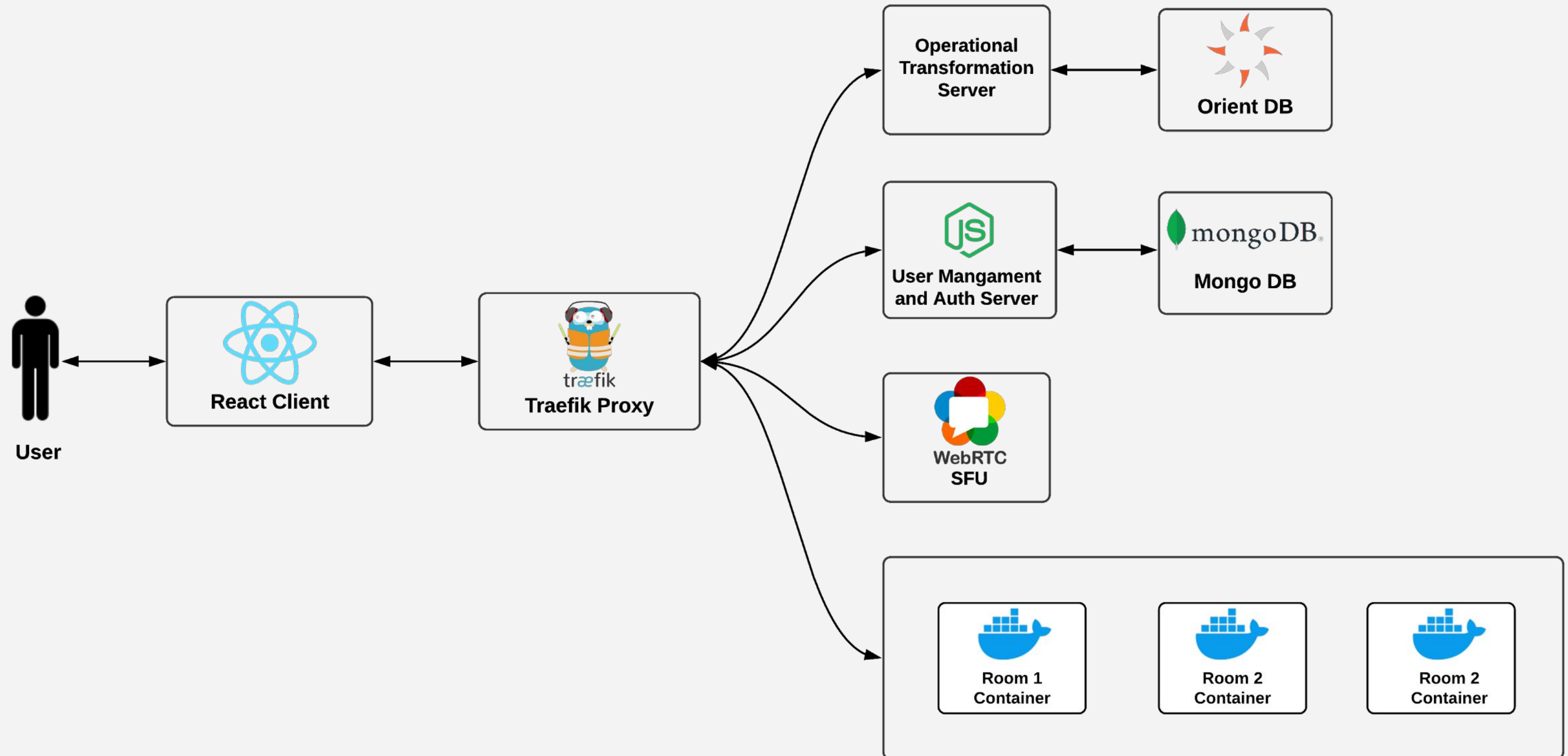
1. Our platform overcomes problems with the current way of conducting online practicals.

2. Students and the teachers will now be in the same coding environment.

3. Consumes less bandwidth than online video calls.

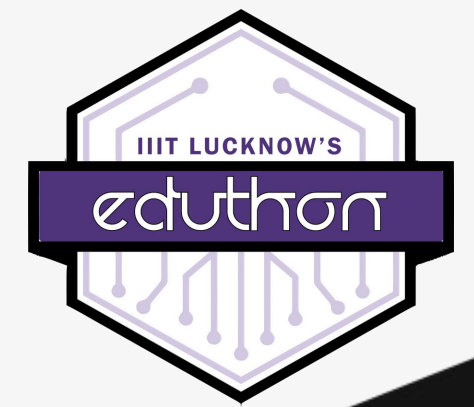


# SYSTEM ARCHITECTURE

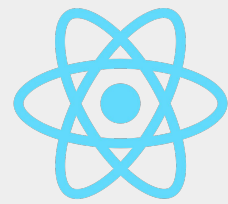




# TECH STACK



## Front-End



React JS

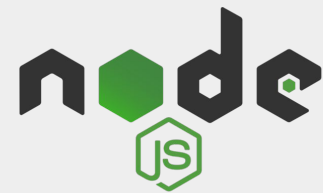


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Xterm JS

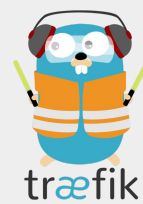
## Backend



Node JS



MongoDB



Traefik

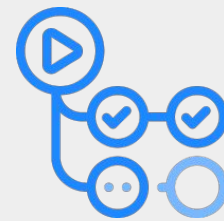


Convergence

## DevOps



Docker



Github Actions

## Deploy ment



Digital Ocean



Netlify





**THANK YOU**

