TOP STUDENT PROJECTS

Best innovations from VTU Regional Centre, Belagavi

PROJECT TITLE

VIRTULAB



Team - BLUE LOCK

1. TAKI ALTAF
2. KALPESH RAIKAR
3. GOUTAM KHATRI
4. MUHAMMAD HUSAIN
5. DAYYAN JAMADAR
6. HARSHAL KAMBLE

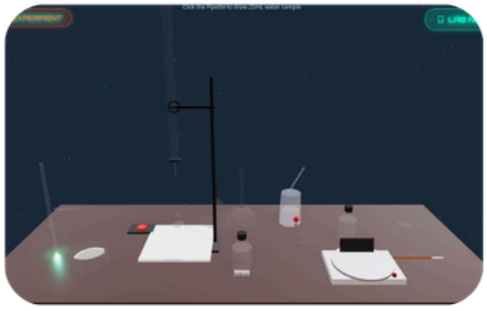


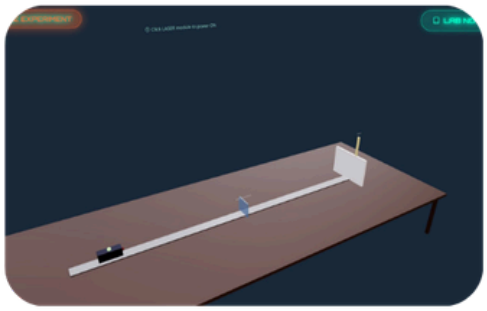
PROBLEM STATEMENT

Traditional laboratory facilities are costly, resource-intensive, and limited in availability, making it difficult for many students to access practical learning opportunities. This restricts hands-on experience and skill development across key scientific and engineering disciplines.

SOLUTION

VirtuLab is an AI-powered virtual laboratory platform that provides students with an interactive environment to perform experiments through real-time simulations. The system offers access to multiple subject laboratories on a single platform, eliminating the need for costly physical lab infrastructure. It incorporates AI-based guidance, feedback, and experiment support to enhance learning outcomes. By enabling practical, hands-on experience anytime and anywhere, VirtuLab improves accessibility, scalability, and the overall quality of science and engineering education.





SCAN ME

Technology stacks:

- HTML, CSS
- Python
- React.js
- API's
- AWS
- Node.js
- RBAC