Project Proposal

For

AMU-VLAB

Version 1.0

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Table of Contents

1.0 Introduction

A **Virtual lab** platform for AMU synced with Google classroom.

1.1 Scope

During pandemics, our labs have suffered a lot.
As an alternate, we have been using IIT Roorkee's Vlab system since last year as a platform to performs our virtual lab.
Therfore we come up with an idea for our own Vlab platform, which will incorporate various features as:

- We aim at providing an exclusive Vlab system synced with google classroom for the AMU.
- It will include virtual labs for all basic engineering disciplines.
- Students will be able to learn, download material, and perform all their departmental practicals.
- They will be notified of their upcoming events, like graded lab quizzes that can be organized for assessement purpose on our platform itself.

1.2 Technologies to be used

Backend: NodeJs, Express

Frontend: EJs, SemanticUI, VanillaJS, PlumJs, MathJax, JQuery,

D3JS, PlotlyJS

Database: FireBase

Authentication: FireBase

2.0 Definition, Acronyms, and Abbreviations

Definitions:

Acronyms:

Vlab : Virtual Lab
UI   : User Interface

Abbreviation:

3.0 References

Not available at the moment