DEVELOPING AN ERP FOR OUTCOME BASED EDUCATION

DEPARTMENT OF INFORMATION TECHNOLOGY

GNDEC, LUDHIANA

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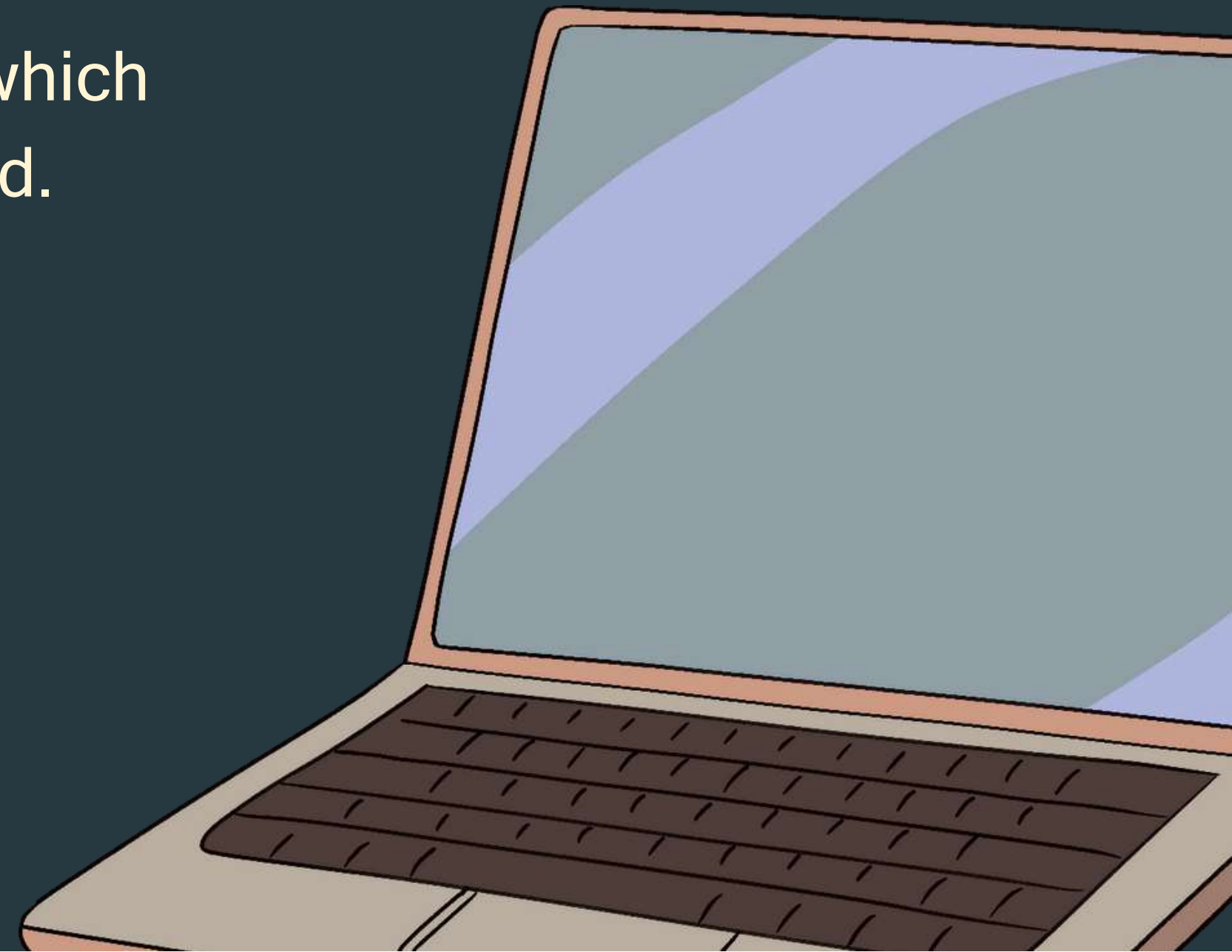
Project Guide: Dr. Amit Kamra

INTRODUCTION

- Graduates of Engineering programs in India are required to attain the Course Outcome (CO), Program Outcome (PO) identified by the NBA, and Program Specific Outcome (PSOs) identified by the University or the Department offering the Program.
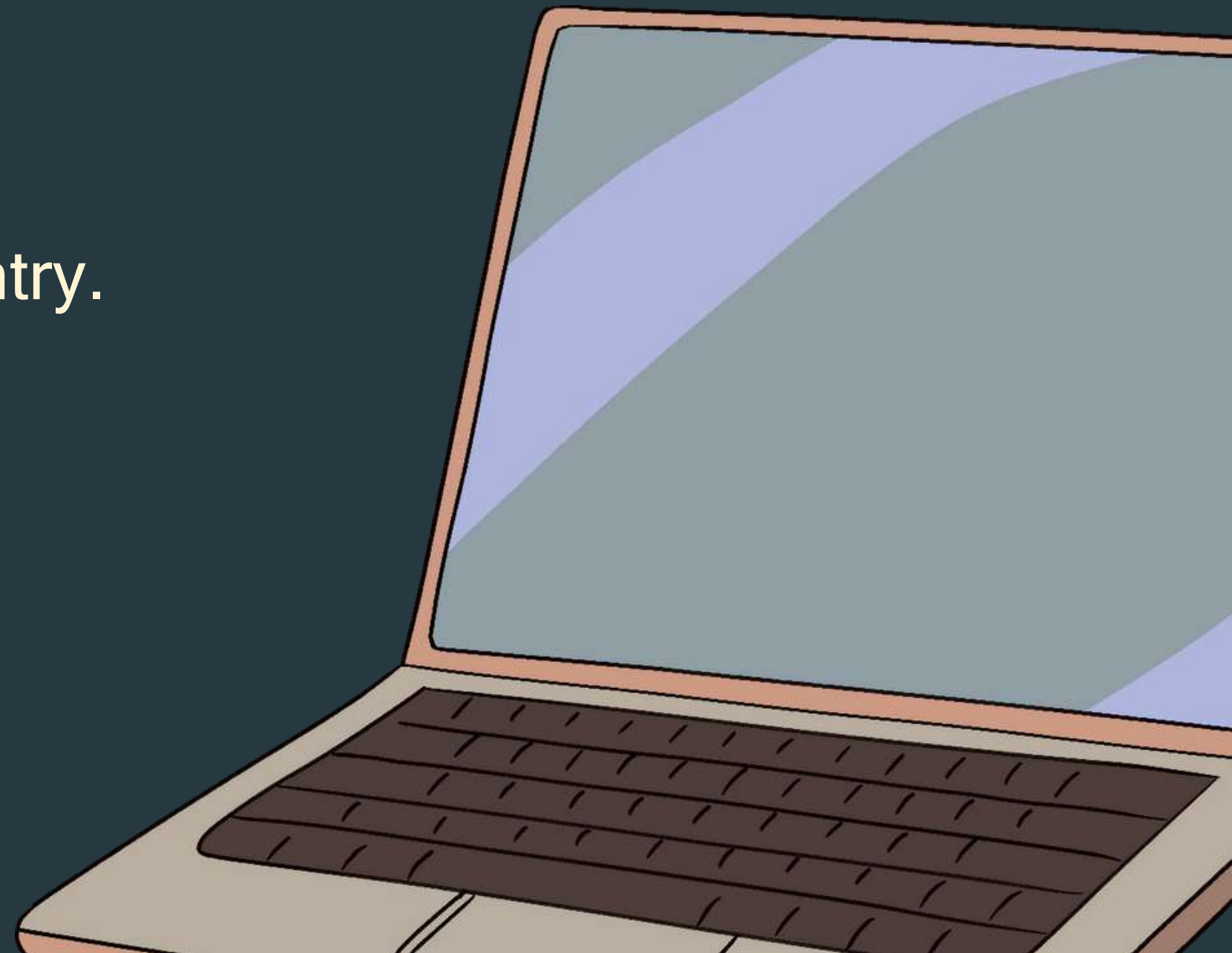
INTRODUCTION

- CO is attained through a particular course and PO and PSO are to attain through projects, co-curricular and extra-curricular activities in which the performance of the students is evaluated.

INTRODUCTION

- In College, Attainment is calculated with excel methods and writing criteria.

- This project automatically calculates the attainment of outcomes with simple data entry.
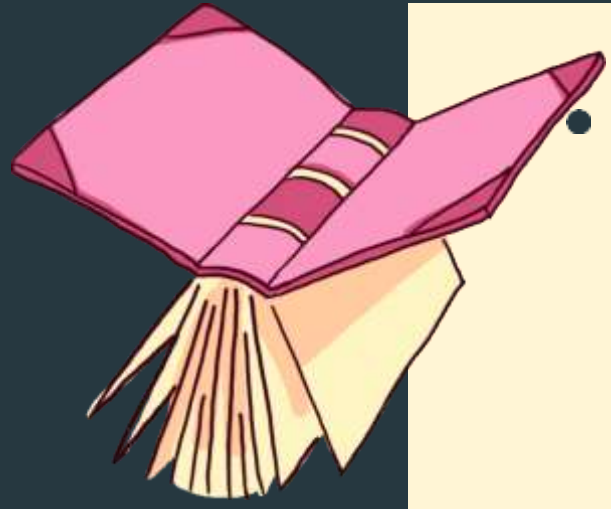
OBJECTIVES

- To calculate the Attainment level of CO/PO/PSO

- To determine the level at which a particular CO/PO/PSO is addressed by the Course/Subject.

- To increase the performance of the students to attain the maximum CO & PO Attainment, which increase the skills in students.

- To calculate the attainment of course outcome of particular course (subject) of term (semester) of curriculum (batch) of every department.

METHODOLOGY

- The project is developed using **MEAN** stack and divided into two major parts server-side and client-side modules. So, the client-side module of the project is divided into modules and components. A Wireframe and DFD have been used to shows the workflow of the project in a graphical manner.

- The server-side module of the project is developed using the technologies from MEAN like MongoDB and Express framework. Here, MongoDB is acting as a database for the project to store the information, and the stored information is used in the calculation part of various outcomes.
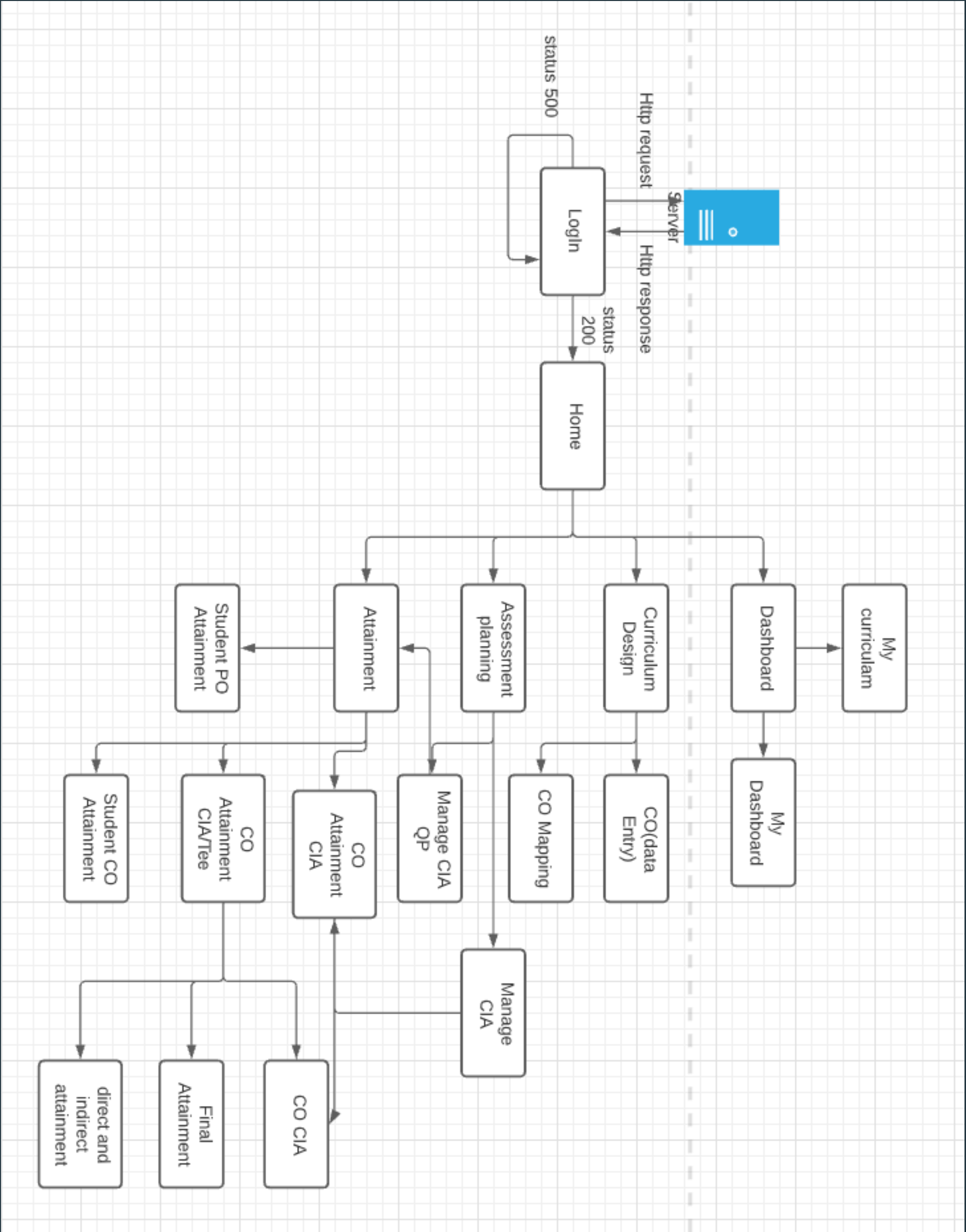
METHODOLOGY

- The client-side module is developed using Angular which is the front-end framework and follows the MVC architecture and acts as an interface to interact with the user to gets the inputs and passed that input to the server using HTTP as a request and get the response in the form of JSON.

WORK FLOW

TECHNOLOGY USED

MEAN STACK

- M: MongoDB/MySQL database

- E: ExpressJS

- A: AngularJS 8

- N: NodeJS

TEXT EDITOR

- Visual Studio Code

- Sublime

- Atom

TECHNOLOGY USED

BROWSER

- Google Chrome

- Mozilla Firefox

- Safari

GIT

- For Version Control

THANK YOU FOR LISTENING!

Don't hesitate to ask any questions!