

## Problem Statement

Develop a MVP for an education platform that allows user registration and login. Users can select a grade and a curriculum (limited to one subject for now - Math). The platform offers two modes: mock tests and practice sets. Users can customize their tests by choosing difficulty levels and specific topics. Practice sets can be paused, and solutions can be viewed upon request. Mock tests cannot be paused. Basic analytics display user performance and areas for improvement.

## Tech Stack

- Figma/Figjam - For mood-boarding, and UI-UX
- MERN for development
- Github for code documentation, storage and code versioning
- Vercel and Railway (free tier) for deployment during development phase

## Scope

Scope of the project is categorized in different sub-sections as per the possible requirements.

### General Authentication

Email and password based register and login.

Forgot password page to reset password. Email OTP and a security question based.

### Guest login

Guest login with local storage persistence if someone doesn't want to sign up with the platform or wanted a quick trial.

Guest authentication will have persistent storage for the same device until user clears the cache. If user chooses to login after giving tests with the guest account, the same information will be imported.

## **Search**

User can navigate through courses, curriculum, topics using search bar, sorting (in a particular order) and filtering (based on specific categories).

## **Extras**

About, and FAQs, to cover all the basic doubts a student could have about using platform.

## **Editor Panel**

A separate panel for admin to add the following:

- a. Create curriculums
- b. Create grades
- c. Create mock tests, practice sets
- d. Create questions with provided tags and time required to solve question.  
Feed solutions for every question. (Search will be powered by tags)

## **Modes of tests**

- a. Mock test
- b. Practice set

**Steps to start a test :** Choose grades, and curriculum, then choose a mode; mock tests or practice set.

### **a. Mock test**

1. Can't be paused. Have to attempt in a single go
2. Solutions, score and analytics available after completion
3. Variable difficulty, time, and options to choose from different topics.

### **b. Practice paper**

1. Practice papers can be paused, and solutions could be seen.
2. Solutions, score and analytics available after completion
3. Variable difficulty, time, and options to choose from different topics.

## **Analytics**

1. Pointing out strength and weakness using analytics and performance visualizations using charts.
2. A summary for focusing on things that could be improved.

## Timeline

As per the discussed scope, **a week (or 7 days)** will be required to get the desired MVP up and running in production.

Please note that during this tenure, the focus would be on accessibility, and the working demo of the product. Visual appearance will be taken in consideration but the focus will be the central theme of allowing users to give tests, analyze them.