Engineering Analysis and Design Project

SEMESTER: 20212

TEAM MEMBERS:

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Skara: Online Classroom Management System

OVERVIEW

The COVID-19 pandemic has created the largest disruption of education systems in history, affecting nearly 1.6 billion learners in more than 190 countries and all continents. Closures of schools and other learning spaces have impacted 94% of the world's student population, up to 99% in low and lower-middle income countries.

In response to these closures, governments and organizations recommended the use of distance learning programs and open educational applications and platforms that schools and teachers can use to reach learners remotely and limit the disruption of education.

Online learning has become a critical lifeline for education, as institutions seek to minimize the potential for community transmission. Technology can enable teachers and students to access specialized materials well beyond textbooks, in multiple formats and in ways that can bridge time and space. Many teachers and students have reported feeling lost and uncertain about their studies in an online learning environment.

We have come up with a solution to this problem. Introducing Skara, your very own virtual classroom! With Skara, you can manage your classrooms just like you would in an

in-person learning environment. We aim to create an environment that will allow students and teachers to feel familiar with their classes and make it easy for them to interact with each other.

GOALS

1. Create a user-friendly web-application that allows students and teachers to keep track of their work.
2. Create well-organized and optimised code to ensure maximum efficiency of the website's working.
3. Collaborate with peers to make an app that would help organize virtual university well.

SPECIFICATIONS

The webapp will have separate profile specifications for teachers and students, and will let teachers create classes and joining codes for them. Teachers will have the ability to generate homework assignments and grade students based on their responses. Besides these features, there will be a separate doubt forum for each class and the ability to chat with course instructors. We will also provide the facility to create and manage teams for efficient and timely submission along with hassle-free evaluation of team projects.