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**Chapter 1:**

We live in the world where technology has reached another peak of development. Possibilities of engineering and human imagination allow to invent and produce revolutionary personal devices. These personal devices allow us to create apps and websites to further our knowledge on anything we can think off.

In this project, we will build a web application for students which will act as a student portal. We used SpringBoot, ReactJS and MongoDB as the frameworks for our web application, user authentication and data storage. We used AWS and DockerHub as our cloud platforms to deploy the Web Application, GitHub for controlling the source code and saving our work. The project will be written mainly in java and a few other languages such as Javascript and HTML.

Currently with the times we are in, studying and keeping up with our work is very challenging. We cannot get access to course materials due to several reasons, such as we got little to none amount of face to face contact and college work is being done all online. Some students do not even have an opportunity to visit their institute/university and are not able see any of their peers in person throughout the year. This is what sparked us and made us think that by making a student portal we can enhance and help these students with their college work and allow them to participate with each other.

This project is a research project as it will allow us to get a better understanding of the work that goes into making a high-end web application. It would also allow us to get a better comprehension of the different languages and frameworks that we used.

The overall objective of this project is to assist students with their online learning, make online learning more. First year students who have not been to college do not know who is in their class or what they look like. The web app will act as a social media platform which will allow the students to talk to each and get to know each other.