

sourceX: A Student – Teacher Interface

ABSTRACT

This thesis project consists of the development of an improved web application which serves as a one stop solution for both teachers and students. The ultimate goal of this application is to create the foundation for a web-based framework which enhances the interactions amongst the members of classroom, amplifies productivity, and also streamlines the entire communication process more efficiently. Increasingly, prominence is being placed on the Internet's role to facilitate communication within peer groups. The need of the hour is clearly a dedicated, digitized platform built solely to optimize information and provide ease of access. Hence, we present to you, *sourceX*.

sourceX can be easily described as a Web CMS (Content Management System). It is a stand-alone application to create data, as well as deploy content, onto web pages. It is also client-centered as it allows client control to host files and documents.

As such, the web application employs easy-to-use, inexpensive, cloud-based tools and services, such as Google Drive and GitHub to host the files. In order to use many of these services together, the web application was purpose-built using the server-side development framework, PHP, in conjunction with the database system, phpMyAdmin. Apart from these, the websites were designed and developed using HTML, CSS and JavaScript.

The key highlights of the project include a feed where students can keep a track of the recent activity in the cloud using the help of Twitter and an exclusive teacher feed to gain access and view the uploaded files, an interactive calendar and to-do list which integrates the information provided by the user with the database, as well as a schedule for both teachers and students to view. Overall, the UI isn't overly complex and won't take much time to adapt to.

There are, however, a few features missing that can be expected out of a student-teacher oriented platform. This includes the ability to check one's attendance and grades from the student end, whilst being able to edit attendance and grades from the teacher's end.

sourceX is a project far from complete. Nevertheless, with constant update rollouts, developments and bug-fixes, there is very high potential of opening up the code for downloads and permitting collaborations with others looking to use and improve the application model.

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