

A Review On Simple-Cademy : A Student-Teacher Portal

Anuj Shaha^[1], Anurag Wankhede^[2], Ashutosh Patil^[3], Rahul Pariyani^[4],
Mr. Ashish Kumbhare ^[5]

[1], [2], [3], [4] (Department of Computer Science, Jhulelal Institute of Technology,
Maharashtra, India)

[5] (Assistant Professor, Department of Computer Science, Jhulelal Institute of Technology,
Maharashtra, India)

Abstract

nowadays, the usage of E-learning platform for education has escalated to a whole new level. It has been overlooked that digital platforms can help students in studies as well as it can also reduce the workload of teachers. This paper presents Simple-Cademy, an online E-learning portal. In this application, Student can download the notes of different file formats and can upload the assignments, student/parent can chat with the teacher and vice-versa, Teacher can take the feedback form online. Moreover this web application also shows the news/events/information/notice to the students and teachers. It also contains a feature in which voting or election can be done for forums or school representatives.

Keywords – Web-Application, Angular, Chat application, Polling system.

I. INTRODUCTION

In the age of technology, huge amount of knowledge, information and data is being produced now a days. Gaining the knowledge, learning new technology and sharing with the society by continuously sharing the experience and knowledge we have are no longer limited to the boundaries of a class room. Currently, the number of users who can access the Internet is

increasing even in countries under developing stage. That has led to acceleration in producing and transforming information processes. This has led to the transformation in the technology in very less time period. This project is an online portal for the students, parents and faculty. “Simple-Cademy” will be developed to override the problems prevailing in the practicing manual system. This system allows college faculty to share or upload important data, notes, video links related to their subjects and as well notify about the upcoming events in the college. This system provides a faculty login along with student login & parent login.

The faculty can easily upload the documents and links with the pc easily. The documents are uploaded by faculties of department to different corresponding departments. The purpose to build this system on an online server that allows faculty to upload data & students may view/search and download the required documents through their computer device or mobile application. Here students only see and download data of their particular semester/year/class, Rest of data is hidden. Faculty may access and upload/edit documents to any semester/year/class or add any notice as their desire. The web portal provides a gate way to access information as well as search, an analytical and communication center for the target users. Most of previous research in student portal context focused on web usability, mainly from desktop and laptop computers [5]. On the other hand, many of universities already built a separate mobile-optimized design for their student portal. As costly as it could be, these mobile sites, when implemented without assessing user preference, could hold usability challenges. The system in college nowadays like entering marks,

attendance ,calculating percentage , giving notices , event calendar , providing exam routine and providing notes/papers is done manually which consumes lots of time and man power.

The key features of the proposed application are as follows:

- 1) When the app will be launched for the first time it will ask to register/Sign up to the students and teachers which will be verified by the institute admin.
- 2) The Students can later access the respective features such as chat application with teacher, notice panel, voting panel, E-learning panel, etc.
- 3) The Teacher can access the respective features such as feedback system, E-learning panel, chat-application, etc.

II. LITERATURE SURVEY

As time advanced, many intellectuals came across with the idea to create a platform which will be beneficial to the students by making them engage with the technology for the sole purpose of using technology for educational purpose. This gave rise to people implementing this, in their own unique ways, such can viewed to have a general implementation ideology, some such portals are listed below:

1. A study of web portal as a knowledge management system in school education:
This focuses on the web portals and their vital role as a knowledge management system in the schools. Generally, the web portal provides a gate way to access information as well as search, an analytical and communication center for the target users. It is import and for the schools to have emphasis on knowledge sharing for supporting the students to access the required resources and information.[1]
2. The student portal performance- comparative study:
Quality of student portal services provided for IIUM as well as GSM students have a significant impact on how students perceive their educational institution at large. Technical factors such as; type of service provided as well as managerial factors such as; reacting to feedback received from students are critical in shaping students' overall perceptions on their respective institution.[2]
3. Teachers' Readiness in Utilizing Educational Portal Resources in Teaching and Learning:
In terms of expenditure, the Ministry has allocated a huge budget in developing the Eduwebtv online portal. Its aims are noble – bridging the digital gap and barriers in accessing quality educational content and resources for teachers and students, and the public in general.[3]
4. The Intention to Use Mobile Student Portal: A Mobile Human Computer Interaction Study in a University Context in Egypt:
This exploratory study investigates factors affecting the intention to use mobile student portal for university students. The study was conducted in a university context in Egypt. The study aims to provide practical mobile student portal design guidelines for educational entities, designers, and implementers, to enhance students' willingness to use.[4]
5. Web portals, instant messaging and web communities:
The INFNGRID support website, is only an example of a powerful collaboration tool that can be easily implemented combining open source software, such as PHP-Nuke, Jabber and the always present mailing list.[6].

Via these above mentioned concepts of portals, it can be seen that these are the most commonly used techniques, when it comes to delivering effective and creative forms of portals, created with the sole

purpose of making education system familiar and comfortable for students, whilst, they enjoy the use of technology.

III. MOTIVATION

With the increasing pace of day to day life, and also with the growing education, it becomes tedious task for the parents to keep a tap on the ongoing of their children at school. This portal allows the parents to use this portal which contains all the information about their ward. Starting from their attendance percentage, daily activities to the entire syllabus and the study material available easily. This portal also allows the parent teacher interaction whenever needed

Apart from this the fees structure of the student, all the documents and important details are an integral part of this portal. Study material includes all the worksheets, eBooks of the course books and finally it also presents with some links to videos that make learning easy.

Also, during the forum or school representatives elections, It becomes a tedious task for counting votes, Hence the Simple-Cademy provides the feature of the voting.

III. PROPOSED SYSTEM

Methodology of the Simple-Cademy is that the students and teachers have to register in order to be called a user of Simple-Cademy. This registration will be authenticated. Once, the admin authorizes the requested registration, students and teachers will be able to login into their specific interfaces. Henceforth, a student will be able to actively participate above mentioned functionality. Thus helping them academically. After login, a student will be able to see the dashboard. A dashboard thus comprises of information such as name, class, teacher name, etc and furthermore will have buttons. These buttons will be functional which consist of features such as Chatting, Notice board, Polling and other academic related features. Teachers upon login in, they too will be able to see the same dashboard as that of the student, except, if they are admin, they will be able to make changes on features.

The most important feature of this application is the Notice Wall where all the notices as well as important information and notices will be shared to the students/parents as well as teachers. Also there is an interactive chat panel for the interaction of teacher and student/parent.

Another important feature of this application is the E-learning module, where the teacher can upload the notes, assignments questions and much more in different kinds of format such as links, videos, pdf, ppts etc. and students can further download them. Also in this feature the student can also the submit the assignments to the teacher.

METHODOLOGY

The project is entirely made on top of Angular Framework with latest 7+ CLI. The Angular framework comes with component based setup that allows the project to hold strong as single page application. The angular framework takes in Typescript for the functionality. Typescript is superset of JavaScript and hence comes with many features that only JavaScript could not provide. The front end of the project is designed on Angular with view on HTML, styling on CSS and functionality in Typescript. The back of the project is availed by firebase which provides many other backstage services such as authentication, real time database, and file storage.

V. CONCLUSION

There are many web-apps, mobile apps and web portals which provides features like notification, student details, fee details, activity details etc. but they have certain limits.

Also these applications are very useful but some features are missing which could be quite helpful for the students, parents as well as for the teachers and management level of the institution.

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