ABSTRACT

Primary purpose of doing this project was to improve the circulation of notices in educational institutes like schools and colleges. The need for this project was felt after facing this problem first-hand in my university. My friends and colleagues almost always missed an event they wanted to participate. And all the announcements and events were circulated through the college mail system, which cluttered the mailbox, leading to students not able to get their desired info at the correct moment.

CHARUSAT e-Noticeboard project was a 3 month targeted project. I **Yagna** was involved to design and create a user friendly interactive **dashboard**. Dashboard contains all the features like create notice in the format that the user liked by a **TEXT EDITOR**, edit, delete it also can upload necessary files etc., accordingly the role assigned to the teacher whether **Admin or Subadmin**. Which is a dynamic role management system to maintain the roles of **USERS**. I **Darshan** was involved to establish the connection between the android app and database of the noticeboard by creating the REST API. With the help of REST API which is an interface between systems using HTTP to obtain data and generate operations on those data in all possible formats, such as XML and JSON. This is an increasingly popular alternative to other standard data exchange protocols such as SOAP (Simple Object Access Protocol), which have a high capacity but are also very complex. Sometimes it's preferable to use **a simpler data-processing solution such as REST**.

After the project, I connected the REST API in with the database where the notices posted by the faculties is stored. The notices are generated in the form JSON to display the data in the android app.

ACKNOWLEDGMENT

We, Darshan R. Prajapati and Yagna J. Sorathiya, have made the project on "CHARUSAT e-Noticeboard" in association with Mr. Hemant N. Yadav and Mr. Ravi Patel. This project led us to new beginnings in how different software components like web app, Android app, REST API, Chatbot engine, and Wordpress plugins, etc. are integrated and made to work with each other. When we started the project, it was unclear and took us a significant amount of time to understand the flow and connections of various software modules and components, but as we moved forward with the project everything started to make sense and learned a lot of new things about, not just coding but how to keep the integrity of those components as well. I thank Mr. Hemant N. Yadav and Mr. Ravi Patel as he guided us to the correct destination throughout the entire project development.

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