



Smart Education System

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Abstract: Nowadays, almost every educational institution wants to boost its education and hence, productivity and quality education amongst its students. To achieve this goal, an institution need to have the necessary framework of centralized and secure educational services and resources. Rather than depending upon various available tools that are available in market, which are at times not secure or sometimes have more down time and are not privacy friendly. Due to unavailability of a single platform to solve these issues, we are left with no other option than to be dependent on these third part apps. To solve these array of issues, we have introduced a web application that can be a booster in an institution's overall productivity and management. This web application have the major educational services covered in it that are centralized to the college or institution. It helps to maintain privacy and security. Integrates various services and provides a user friendly dashboard for keeping up with the studies and notifications. Also, students will be able to know the technological roadmaps of important domains that one must know beforehand. With the help of this application, student will be well equipped with all the necessary resources and pathways to explore and the teachers can effectively communicate and share knowledge with them in a more comfortable way

I. INTRODUCTION

Smart Education System is helping students and the whole education system. There is no single platform to manage all academics activities. Students and teachers need to use a third-party application for communication, that does not help to maintain privacy. Other communication platform does not provide the specific educational platform. That can improve the disturbance in communication, does not help to stay focus on academics, diverts students from the study, it may improve the involvement of students with vulgar content. From the first year students are aware about industrial knowledge and their road-maps..

II. BACKGROUND

Smart education system is a single platform to manage all online academics activities like project management tools, EdTech, Communication system, Sharing, Social media platform without any third party application. EdTech is the practice of introducing IT tools into the classroom to create a more engaging, inclusive and individualized learning experience. Students can access every technical, educational, college stored lectures, syllabus, emerging and current technical stuff on single place. Various courses, Specialization, certifications and many more virtual guidance things will be available on single platform. Various technical roadmaps, career paths, progress tracker, milestones to achieve and required skills sets to be improved will be mentioned on Mentor personal dashboard.

III.SCOPE

We are making an online web application name as Smart education System. Here we propose a system that students teachers and other authority connect to each other at a single platform and to clear every technical confusion. The system is fed with various roadmaps for new technologies, career paths, progress tracker, milestones to achieve and required skills sets. Also it include latest technology, tutorials, industrial visions, Job posting and updates, live sessions, educational syllabus, startup guide. All these things will be available on single platform. Various courses, Specialization, certifications and many more virtual guidance things will be available on single platform. Teachers or any educational experts can create their own Mentor page to share their knowledge. And can gain more knowledge from others. With the help of this application students can able to know about admission process, examination form process also have idea how to fill scholarship form and aware about last date of all these forms. Users can share post, media, Writing content, photos, videos, status updates, achievements, failures, success stories, short success, daily achievements, and showcase their skills.



IV. OBJECTIVES

The main Objective of the project is to develop a web application that will provide a single standard environment for students and teachers to communicate with others to stay focus on their academics and also share educational-related stuff through a single virtual dashboard. Students can access every technical, educational, college stored lectures, syllabus, emerging and current technical stuff on single place. This application will act as unique and secure way to share knowledge.

V. ANALYSIS

The chapter describes everything related to the requirement gathering and further analysis such as hardware, software. Software requirement: React, node.js, express.js. Hardware requirement: Laptop, 1TB HDD, 8GB RAM.

VI. TESTING

Test Cases:

Test Case is the set of inputs along with the expected output and actual output some additional information.

Testcase ID 1:

scenario – fetching post/alerts list from database.

Input : get/Alerts and Posts

Expected output : return list of all Posts and Alerts in database.

Actual O/P shown in fig 1-

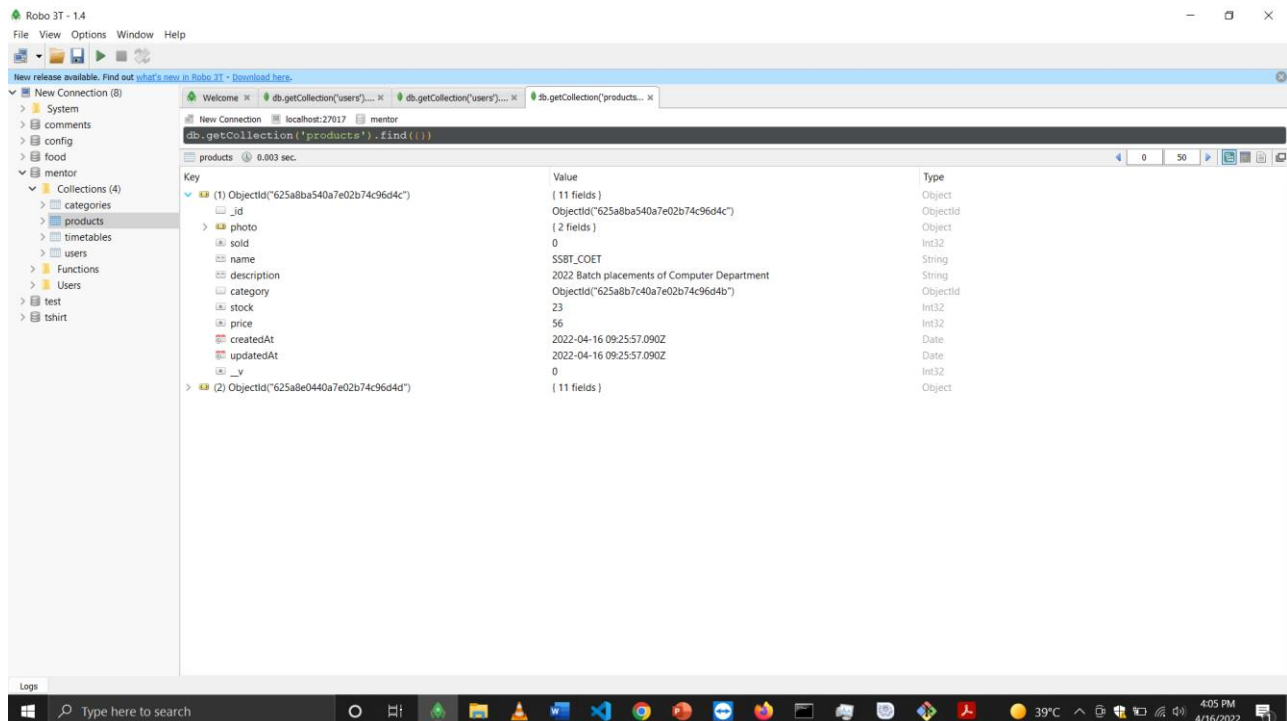


fig 1 Result- Pass.

Testcase ID 2:

scenario – user signup

Input : Post /signup with Name, valid email address and password

Expected output : User is signup with their credentials .

Actual O/P shown in fig no 2-

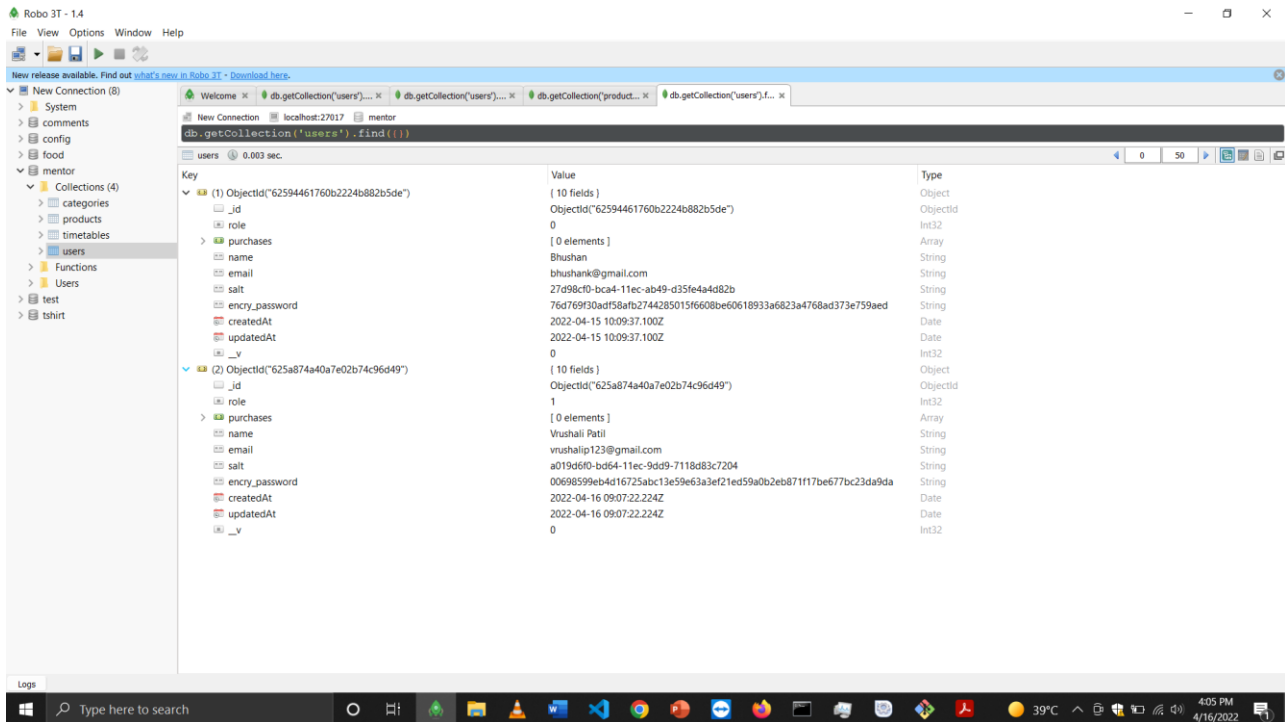


fig 2 Result- Pass.

VII. CONCLUSION

Thus, Smart Education platform as we named it, successfully aims at the elimination of various hindrances that Students and teachers faces while performing academics activities. Students and teachers intensely benefited with communication platform for fast and secure message/data exchange. Student's Profile Dashboard improves various progress tracking method to demonstrate length and depth of knowledge. One can manage and segregate the various qualitative academics project and can make accessible to other authority as well. Notification system keeps everyone updated with academic activities initiated by any authority of education system. Open virtual timeline system helps everyone to share valuable content and keep them connected. Mentoring system make available all the reading, watching, performing content on single virtual platform to improve skills of students in all direction. Overall, the system provides a single platform to perform all the academic activities with ease.

REFERENCES

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