IJARCCE



International Journal of Advanced Research in Computer and Communication Engineering

Impact Factor 7.39 ∺ Vol. 11, Issue 3, March 2022

DOI: 10.17148/IJARCCE.2022.11374

Smart Education System

Bhushan Anil Khachane¹, Vrushali Manoj Patil², Gokul Dattu Bhoi³,

Anjali Ganesh Kulkarni⁴

BE, Computer, Shram Sadhana Bombay Trust's COET, Jalgaon, India¹⁻⁴

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.

IJARCCE



International Journal of Advanced Research in Computer and Communication Engineering

DOI: 10.17148/IJARCCE.2022.11374

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 communicated 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.

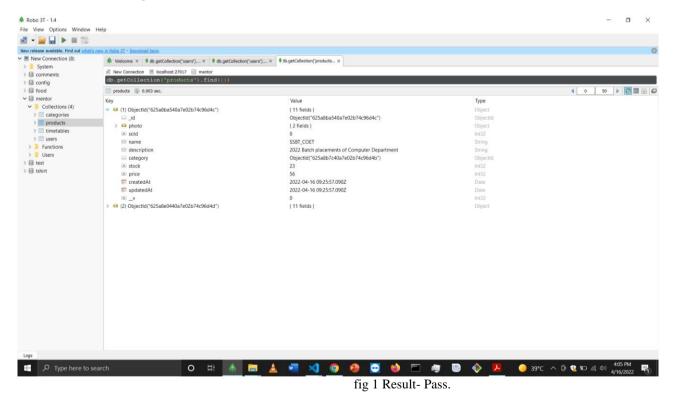
VI. TESTING

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-



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-

IJARCCE

439



International Journal of Advanced Research in Computer and Communication Engineering

Impact Factor 7.39 💥 Vol. 11, Issue 3, March 2022

DOI: 10.17148/IJARCCE.2022.11374

<pre>Inver Connection in localhost:27017 in mentor db.getCollection('users').find(()) invers (0.003 sec.</pre>		Find out <u>what's new in Robo 3T - Download here</u> . (8)	rs') × Ø db.aetCollection('product × Ø db.aetCollection('users').f ×		
Book of the second of	BudgetCollection(*users*).find(()) find(()) i 0 0 0 (4) s 0 </th <th></th> <th></th> <th></th> <th></th>				
uerr 0.003 sec. Value Type Key 0	Image: 0.00 30 acc. Image: I				
Key Value Type V (1) Objectid ("62594461760b2224b882b5de") (10 fields) Objectid J J Objectid ("62594461760b2224b882b5de") Objectid J J Objectid ("62594461760b2224b882b5de") Objectid J Otole O Hib22 In one Outperformers Hib22 In anne Bushan String In anne Dridhatle/Adapmall.com String In enall 27/398ctP bca4-11ec-ab49-d35fe4a4682b String In enall 2022-04-15 1009371002Z Date In createdAt 2022-04-15 100937100Z Date In operatority In fields (253874a40a7e02b74c96497) Objectid ("6253874a40a7e02b74c96497) Dietectid In operatority In fields (253874a40a7e02b74c96497) Up fields (253874a40a7e02b74c96497) Dietectid In operatority In fields (253874a40a7e02b74c96497) Up fields (253874a40a7e02b74c96497) Dietectid In operatority In fields (253874a40a7e02b74c96497) Up fields (253874a40a7e02b74c96497) Dietectid In operatority	Key Value Type s V 1(1)Object16(*62594461760b2224b882b5de") (101 fields) Object16(*62594461760b2224b882b5de") Object16(*62594461760b2224b882b5de") Object16(*62594461760b2224b882b5de") Object16(*62594461760b2224b882b5de") Object16(*62594461760b2224b882b5de") Object16(*62594461760b2224b882b5de") Object16(*6259461760b2224b882b5de") Object16(*6259461760b2224b882b5de") Object16(*6259461760b2224b882b5de") Object16(*6259461760b2224b882b5de") Object16(*62594760b224b882b5de") Sting s >>>>>>>>>>>>>>>>>>>>>>>>>>>>				
v 01 Object/df(*62594461760b22240882b5de") 10 fields) Object/df(*62594461760b22240882b5de") Object/df(*62594461760b22240882b5de") Object/df(*62594461760b22240882b5de") Object/df(*6259461760b22240882b5de") Object/df(*6259461760b22240882b5de") Object/df(*6259461760b22240882b5de") Object/df(*6259461760b22240882b5de") Object/df(*6259461760b22240882b5de") Object/df(*6259461760b22240882b5de") Object/df(*6259461760b22240882b5de") Object/df(*6259461760b22240882b5de") Object/df(*6259461760b224082b5) String i name Dusban Object/df(*62594764302b2) String String i email Dusban Colored/df(*62594764302b2) Date Date i encry_password Coffcr09100d18f6ab2b744295015f6608be60518933a6823a4768ad373e759ad String Date i updatedAt 2022-04-15 100937.1002 Date Date Date i updatedAt 2022-04-15 00937.1002 Date Date <th>(4) (1) Objectid(*62594461760b2224b882b5de*) (10 fields) Objectid 5 (1) Objectid(*62594461760b2224b882b5de*) (10 fields) Objectid 5 (1) Objectid(*62594461760b2224b882b5de*) (10 fields) Objectid 5 (1) Objectid(*62594461760b2224b882b5de*) (10 fields) Objectid 6 0 (10 enemts) Array 10 anne Bushan Sting 11 enemail Dubatan(@gmail.com Sting 12 enery.password 76676970ad158ha27442850156608be60618933a6823a4768ad373e759ad Sting 12 enery.password 76676970ad158ha27442850156608be60618933a6823a4768ad373e759ad Sting 12 enery.password 0 (11 fields) Objectid(*625874440a7e02b7468ad97) Date 12 updatedAt 2020-40-15 100937.100Z Date Date</th> <th></th> <th></th> <th></th> <th>Q 0 50</th>	(4) (1) Objectid(*62594461760b2224b882b5de*) (10 fields) Objectid 5 (1) Objectid(*62594461760b2224b882b5de*) (10 fields) Objectid 5 (1) Objectid(*62594461760b2224b882b5de*) (10 fields) Objectid 5 (1) Objectid(*62594461760b2224b882b5de*) (10 fields) Objectid 6 0 (10 enemts) Array 10 anne Bushan Sting 11 enemail Dubatan(@gmail.com Sting 12 enery.password 76676970ad158ha27442850156608be60618933a6823a4768ad373e759ad Sting 12 enery.password 76676970ad158ha27442850156608be60618933a6823a4768ad373e759ad Sting 12 enery.password 0 (11 fields) Objectid(*625874440a7e02b7468ad97) Date 12 updatedAt 2020-40-15 100937.100Z Date				Q 0 50
V 10 Ubjectid (%2594461760b22240822b36*) Ubjectid (%2594461760b22240822b56*) Objectid (%2594461760b22240822b56*) J 0 0 Hs12 Image: 0 0 Hs12 Image: 0 0 Hs12 Image: 0 0 Hs12 Image: 0 Northers String Image: 0 Northers String Image: 0 7607670304758417247428042b String Image: 0 760767030475841724742804791366084605189336823476884373787598ed String Image: createdAt 2022-04+15 100937.100Z Date Image: 0 0 Hs12 Image: 0 10 Hs12 Image: 10 <t< th=""><th>• • • • • • • • • • • • • • • • • • •</th><th>(4)</th><th>Value</th><th>Туре</th><th></th></t<>	• • • • • • • • • • • • • • • • • • •	(4)	Value	Туре	
Image: Control of the contro	3 0 00ectol 6259401/062240862506 / 0 00ectol 6259401/062240862506 / 0 3 0 0 1053 4 0 1053 1053 5 0 0 1052 1053 6 0 1052 1053 1053 6 email 1000 1053 1053 1053 6 email 203600-054-116-0430-0556440825 5010 5010 6 enstry.password 7667695030458187474428501566086606189336823476884373675946 5010 1060 6 erestedAt 2022-04-15 100937.100Z Date 1062 106 1062 106 10	 (1) Objectid("62594461760b2224b882b5de") 		Object	
> * purchases [0 elements] Array > mane Bhushank@pumil.com String > mail Dhushank@pumil.com String > anare 2709407-bc34-life_abid=2644682b String > ency	3 i i i i i i i i i i i i i i i i i i i				
Binde Binde String Image email 2709cfb-bcs4-11ec-ab49-d35(e4a462b String Image email 2709cfb-bcs4-11ec-ab49-d35(e4a462b String Image email 2709cfb-bcs4-11ec-ab49-d35(e4a462b String Image ercektedA 2022-04-15 100937.100Z Date Image crcektedA 2022-04-15 100937.100Z Date Image 0 Image Image Image 0 0 Image Image Image 0 0 Image Image Image Image 0 0 Image Image Image Image Image 0 0 Image	image [0 determins] Antry image Brusham Brusham String image Brusham String String image Brusham 27989(7)-0044-116c-3049-04357(4)-4(422) String image Constraints 27989(7)-0044-116c-3049-04357(4)-4(422) String image Constraints 27098(7)-0044-116c-3049-04357(6)-004373-0759-004 String image Constraints 2022-04-15 100937.100Z Date image O U024-04-15 100937.100Z Date image V O U0461(625-3874-400a7e02b74-296497) O image V O U0461(625-3874-400a7e02b74-296497) O image V O U0461(625-3874-400a7e02b74-296497) O image V O O U0461(625-3874-400a7e02b74-296497) O image V V1041ile String U141 U132 image Image Vushail Pati String String image Vushail Pati String String String image Vushail Pati	· role	0	Int32	
Image: mail bbudwak@gmail.com String Image: mail 2709600 ¹ bca ⁴ -11ec-ab49-035(e4a462b) String Image: mail 270960 ¹ bca ⁴ -11ec-ab49-035(e4a462b) String Image: mail 2020-04-11ec-ab49-035(e4a462b) String Image: mail 2022-04-15 100937.1002 Date Image: mail 0 Image: mail Objectdif C538744037e02b74c96497 Objectdif C538744037e02b74c96497 Image: mail 0 Objectdif C538744037e02b74c96497 Objectdif C538744037e02b74c96497 Objectdif C538744037e02b74c96497 Image: mail 1mage: mail 1mage: mail 1mage: mail String Image: mail 019480t-0461-11ec-9409-71136437204 String String Image: mail 019480t-0461-11ec-9409-71136437204 String String Image: mail 019480t-0461-11ec-9409-71136437204 String String	Image:	PS > III purchases	[0 elements]	Array	
Image: State	iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	= name	Bhushan	String	
Image: encry_password 76676930adf58afb274285015f6608be50618933a6823a478e30373e759ad String Image: encry_password 2022-04-15 10:0937.1002 Date Image: puptatedAt 022-04-15 10:0937.1002 Date Image: puptatedAt 022-04-15 10:0937.1002 Date Image: puptatedAt 022-04-15 10:0937.1002 DigetCol Image: puptatedAt 022-04-16 00:02222/42.054040=702.05499 ObjetCol Image: puptates [0 elemets] Array Image: puptates [0 elemets] String Image: puptates 019960b-0464-11ee-9499-91104832-7204 String Image: puptates 019960b-0464-11ee-9499-91104832-7204 String Image: puptatedAt 009809eb416725bc124599a0b2eb87117be677bc23da94a String Image: puptatedAt 009809eb416725bc124599a0b2eb87117be677bc23da94a String Image: puptatedAt	Image:	🗁 email	bhushank@gmail.com	String	
2022-04-15 1009-37.100Z Date 2022-04-15 1009-37.100Z Date 2022-04-15 1009-37.100Z Date 0 Insta 0 Insta 2022-04-15 1009-37.100Z Date 2022-04-15 1009-37.100Z Date Disctol Date Dijectol Dijectol Dijectol dol Dijectol Coljectol Dijectol dol Doljectol Dijectol Dijectol dol col Din	CreatedAt 2022-04-15 100937.100Z Date UpdatedAt 2022-04-15 100937.100Z Date U 0 Int32 U 0 Int32 U 0 Dijectil (525:874:400a7602b74:596:49°) UpdatedAt U 0 Dijectil (525:874:400a7602b74:596:49°) Dijectil (525:874:400a7602b74:596:49°) U Dijectil (525:874:400a7602b74:596:49°) UpdatedIf (525:8074:400a7602b74:596:49°) Dijectil (525:8074:400a7602b74:596:49°) U Dijectil (525:8074:400a7602b74:596:49°) UpdatedIf (525:8074:400a7602b74:596:49°) Dijectil (525:8074:400a7602b74:596:49°) I mane Uvdahil [htil Int32 String I mane 00969999b4d16725abc13e59b63a2e12*ed59a00b2eb87117be577bc23da940 String I email 00969999b4d16725abc13e59b63a2e12*ed59a00b2eb87117be577bc23da940 String I email 0096992b242d7 Diate Diate	📼 salt	27d98cf0-bca4-11ec-ab49-d35fe4a4d82b	String	
	Image Date Image 2022-04-15 10.0937.100Z Date Image 0 1052 Image 0 1052 Image 0 0bjectld*052887440a7e02b74c966497) Objectld*052887440a7e02b74c966497) Image 0 0bjectld*052887440a7e02b74c966497) Objectld*052887440a7e02b74c966497) Objectld*052887440a7e02b74c966497) Image 0 0bjectld*052887440a7e02b74c966497) Objectld*052887440a7e02b74c966497) Objectld*052887440a7e02b74c966497) Image 0 0bjectld*052887440a7e02b74c966497) Objectld*052887440a7e02b74c966497) Objectld*052887440a7e02b74c966497) Image 0 0eleents Array String Image 0019969/bid4671er2-0d99-7118d83c7204 String String Image 0019969/bid4671er2-0d99-7118d83c7204 String String Image 0019969/bid4671er2-0d99-7118d83c7204 String String Image 0202-0416 090722224Z Date Date	encry_password	76d769f30adf58afb2744285015f6608be60618933a6823a4768ad373e759aed	String	
i i j v 0 Int32 i (2) Objectdl"(625a874a40a7e02b74c96649") (10 fields) Objectdl i (2) objectdl"(625a874a40a7e02b74c96649") Objectdl Objectdl i (2) objectdl (0 cbjectdl Objectdl Objectdl i (2) objectdl (0 cbjectdl Objectdl Objectdl i (2) objectdl (0 cbjectdl Int32 Int32 i (2) objectdl (0 cbjectdl String Int32 i (2) objectdl (0 cbjectdl Int32 String i (2) objectdl (0 cbjectdl Int32 Int12 i (2) objectdl </td <td>v 0 Int32 v 00/bettdlfv5258744007e02b74c96497) 00/bettdlfv5258744007e02b74c96497) 00/bettdlfv5258744007e02b74c96497) v 00/bettdlfv5258744007e02b74c96497) 00/bettdlfv5258744007e02b74c96497) 00/bettdlfv5258744007e02b74c96497) v volvetdlfv5258744007e02b74c96497) 00/bettdlfv5258744007e02b74c96497) 00/bettdlfv5258744007e02b74c96497) v volvetdlfv5258744007e02b74c96497 00/bettdlfv5259007e02b74c96497 Nin32 v volvetdlfv51 volvetdlfv51 String v volvetdlfv512b920b62a871117be577bc22d34904 String v costedAt 02204-01609722224Z Date v 0202-40-1609722224Z Date Date</td> <td>🐷 createdAt</td> <td>2022-04-15 10:09:37.100Z</td> <td>Date</td> <td></td>	v 0 Int32 v 00/bettdlfv5258744007e02b74c96497) 00/bettdlfv5258744007e02b74c96497) 00/bettdlfv5258744007e02b74c96497) v 00/bettdlfv5258744007e02b74c96497) 00/bettdlfv5258744007e02b74c96497) 00/bettdlfv5258744007e02b74c96497) v volvetdlfv5258744007e02b74c96497) 00/bettdlfv5258744007e02b74c96497) 00/bettdlfv5258744007e02b74c96497) v volvetdlfv5258744007e02b74c96497 00/bettdlfv5259007e02b74c96497 Nin32 v volvetdlfv51 volvetdlfv51 String v volvetdlfv512b920b62a871117be577bc22d34904 String v costedAt 02204-01609722224Z Date v 0202-40-1609722224Z Date Date	🐷 createdAt	2022-04-15 10:09:37.100Z	Date	
V IQ ObjectId("62588744007e02b74c96649") (10 fields) ObjectId I Jd ObjectId("62588744007e02b74c96649") ObjectId I Index 1 Index I role 1 Index I Index 1 Index I Index 1 Index I Index 10 fields1 Array I Index 1 Index I Index 1 Index 1	v I2 0 Dijectid (f625a874a40a7e02b74c96d49') [10 fields] Objectid i Jd Objectid (f625a874a40a7e02b74c96d49') Objectid i Jd Objectid (f625a874a40a7e02b74c96d49') Objectid i role Imma Imma i mane Vurshali [P12@grmai.com String i email vurshali [P12@grmai.com String i email Obje6f1-06c-0409-7118d8i2r204 String i email Obje6f2-06671a5696a3a8f21ed59a0b2eb87117be677bc23da9da String i emory_password Obje672-0224Z Date i putchedxt 2022-04-16 09722224Z Date	💭 updatedAt	2022-04-15 10:09:37.100Z	Date	
jd Objectd(*625a874a40a7e02b74c96649') Objectd iii role 1 Int32 iii role 0 elements] Array iii name Vushali Patil String iii salt 019960b-0464-11ec-9d99-7118d33c7204 String iii salt 009989be1d16725abc11899e63a3e72ted59ab02e087117be677bc23da9da String iii createdAt 2022-0416090722224Z Date iii updatedAt 2022-0416090722224Z Date	jd Objectld(*625a874a40a*02b74c96349*) Objectld i olde 1 Int32 i olde 1 Int32 i olde 0 Int32 i name Vushail Patil String i name 001996%-0646+11ec>0909-7118d35/204 String i name 001996%-06416/252bat/146>090722224 Date i name 0022-0416 090722224Z Date	· _v	0	Int32	
Image: Control (Image:	Image: Color of the second s	(2) Objectld("625a874a40a7e02b74c96d49")	{ 10 fields }	Object	
> Image [0 elements] Array Image Vurshalij Patij String Image vurshalij Patij @gmail.com String Image a019d6N0-bd64-11ec-9dd9-7118d83/204 String Image a019d6N0-bd64-11ec-9dd9-7118d83/204 String Image created34 0068099eb4d16725abc13e59e63a3ef21ed59s0b2eb87t117be677bc23d9dag String Image created34 022-04-16 0907222247 Date	> Impurchases [0 elements] Array Impurchases [0 elements] String Impurchases Vurshali Patil String Impurchases Vurshali Patil String Impurchases a019d6N0-bd64-11ec-9dd9-7118d83c7204 String Impurchases a019d6N0-bd64-11ec-9dd9-7118d83c7204 String Impurchases createdAt 2022-04-16 09072224T Date Impurchase 2022-04-16 090722224T Date	id _id	Objectld("625a874a40a7e02b74c96d49")	ObjectId	
Image Wuxhail Patil String Image wuxhailig123@gmail.com String Image String String Image CreatedAt String Image String String Image	Image Vushali Patti String Image vushali Patti String Image vushali Patti String Image vushali Patti String Image attigets/string	I role	1	Int32	
Image: mail vrushalip123@gmail.com String Image: mail a01946/b-bd64-11ec-9dq9-7118d83c7204 String Image: mail a01946/b-bd64-11ec-9dq9-718d83c7204 String Image: mail 006965599eb4d16725ab123e5683aF21ed59ab0zeb871117be677bc22ad9da String Image: mail 2022-04-16 09:07222224Z Date Image: mupdatedAt 2022-04-16 09:0722224Z Date	Image: Second	> 📫 purchases	[0 elements]	Array	
Image: Sait a019d6/0-bd64-11ec-9dd9-7118d83c7204 String Image: Sait 00098099eb4d16723bot12699e3a3e72ted59s0b2eb87t117be677bc23d9da String Image: CreatedAt 2022-04-16.090722224Z Date Image: UpdatedAt 2022-04-16.090722224Z Date	Bisit a019d6/0-bd64-11ec-9dd9-7118d83c7204 String Bising 00989999ebd416725abc1495980b2eb87117be677bc23d89da String CreatedAt 2022-04-169907222247 Date DipdetdAt 2022-04-16.990722224Z Date	🖾 name	Vrushali Patil	String	
Image: Specific and specifi	Image: Symbol 00698999eb416725abc13e59e63a3e121ed59a0b2eb871117be577bc23da94a String Image: Symbol 2022-04-16 090722224Z Date Image: Symbol 2022-04-16 090722224Z Date	📼 email	vrushalip123@gmail.com	String	
 □ createdAt 2022-04-16 09:07:22.224Z □ updatedAt 2022-04-16 09:07:22.224Z □ Date 	© createdAt 2022-04-16 09:07:22.224Z Date © updatedAt 2022-04-16 09:07:22.224Z Date	🖾 salt	a019d6f0-bd64-11ec-9dd9-7118d83c7204	String	
📰 updatedAt 2022-04-16 09:07:22:224Z Date	■ updatedAt 2022-04-16 09:07:22.224Z Date	encry_password	00698599eb4d16725abc13e59e63a3ef21ed59a0b2eb871f17be677bc23da9da	String	
		🗊 createdAt	2022-04-16 09:07:22.224Z	Date	
iii _v 0 int32	i∎_v 0 int32	😇 updatedAt	2022-04-16 09:07:22.224Z	Date	
		×_v	0	Int32	

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

- [1]. https://reactnative.dev/docs/getting-started
- [2]. <u>https://reactjs.org/docs/getting-started.html</u>
- [3]. https://www.mongodb.com/docs/manual/introduction/