

# Web-Based Course System: A review

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**Abstract:** - This is a web-based application which offers the courses to the user. For those who are interested in learning new courses, it provides a learning platform to them. In previous time they should learn the courses in multiple different platforms, so it becomes difficult for the user those who are using the web to learn. So, to overcome that, web-based course system is used. Hence the registered user can make use of the course materials are available in this application. Once they login through their credentials, they can reach out their homepage and learn the course materials in the website. This application may also allow instructor to instruct the course learners in their site. It is an environment which makes the learning process much easier.

**Key Words:** —*Course Materials, Student(user), Instructor, Admin.*

## I. INTRODUCTION

This efficient application must be created for the learning sector where the learners are interactive with the application, they can improve their skills to find the new applications. At present circumstances, the learning users' rate is increased in the online learning. So, in this way the web-based course system application may fulfill the needs of users in the educational area as well as in employment area. Now a days all IT, corporate companies are offering courses through online itself to learn and the employee working in the company use the website application for improving their skills and also to reach the higher position. In this web-based course application, the users give their credentials in the registration form for creating their account in the website so they can easily login into their home page to learn the courses of their own. Here in this site, the user may also register for their required courses and learn the courses. They can also take the assessment in the site to check their understanding ability and also, they can view the assessment marks through the view score. so, in this application each and every single user information detail is maintained privately in the database and it is secured.

After losing in with their respective login id and password, homepage will be viewed on the homepage the user can able to view course materials after completion of particular session of course assessment link will be enabled. Assessment page contains that 10-15 questions with submit and view score button, when the user answered for the assessment questions and they have to click the submit button to submit their assessment answers then the view score option is to view their score. This web-based application has specific instructors for different courses who will upload the course materials with the help of admin and they also can view the student's assessment page to evaluate it and give scores based on their performance.

## II. ALGORITHMIC ASSESSMENT THEORY

*KNN Algorithm:* Normally the project is done by following the KNN algorithm. This algorithm is just to get an input and to transact the data from the database. It may lead to the wastage of the memory and also it is the simple process where only the simple data fetching is done. Whenever the user sends the request all data in the database can be shown to the user. So, it is an inconvenient for the user. By using the algorithm, a congested data appearance may allow here. In the project, when the KNN algorithm is used only Admin can do login and can upload the data by fetching it from the database. So here no user request is needed. In this format of application, only user can login and view all the courses which are all uploaded by the admin.

*Using Apriori Algorithm:* To overcome the drawbacks, Apriori Algorithm is used this algorithm major process is to fetch the

Manuscript revised April 05, 2022; accepted April 06, 2022.

Date of publication April 07, 2022.

This paper available online at [www.ijprse.com](http://www.ijprse.com)

ISSN (Online): 2582-7898; SJIF: 5.59

relational data according to the input given. This algorithm follows the association rules for databases this algorithm checks priority of the input and it chooses the data related to it from the database, whenever the website works and while giving the user input as the following request. According to that request, related data can be taken from the database. By using this algorithm, no congested data appearance is allowed on the website. So, user can take the data according to their request. The main advantage of the algorithm is that there is no wastage of memory. The virtual appearance of the website looks simple and pretty while user viewing their homepage. By using this algorithm, the project may run effectively and efficiently, so here the admin can relate the courses according to their student registration id to the course number in the database. Not only the admin uses this relation. The instructor can also use this for scoring the students through their id by validating their assessment pages. so, it makes an easy way to extract data from the database.

Here, the confidence keyword is used to test the relation between the input and the data in the database. In the below data, when student get registered. Admin create his account by providing the Id for his own. He has the courses and he match the courses to the student registration and do mapping to the instructor with student details. After the mapping is done by the admin, then instructor make a match to their course and the information is given and then they can assign it to the particular student user.

Student Name	Student Id
Leo	Id 1
Harry	Id 2
Dais	Id 3

Student Id	Course Id
Id 1	Course 2
Id 2	Course 3
Id 3	Course 4

*Increase the quality of Education:* Each and every individual can learn through the online itself from their own place. They

can search the courses according to their needs and also, they can develop their skills in this website application. There is also an assessment for each and every course after completion of session, so every user can test their ability in the particular course after learning through this test page. Whenever the user using the internet for learning purpose there so much of the different websites are used and also it leads to the user distractions and they cannot able to learn the courses interactively what they want. This website application may also allow the discussion forums between instructor and user. And they may also give instructions to the user. Not only the education sector people use this application even though the people who are in the employment area can also use this to develop their skills according to their requested fields. All content materials are organized in a certain location. There is a random access of course materials allowed according to the random requests of the student users.

*Reduce search timing:* while the user is searching to learn they may reach different sites through the internet and it can take the more time to reach the exact location for their convenience. While using this application they can reach through this site and according to their need. So as the user send the request, within a fraction of second, the course materials can be viewed by them.

*Easily Tracking the user performance:*  
This website application has an assessment page. When the student completes his learning through the course materials offered here, then he can check his ability of his learning through attending the assessment here. As he completed his test, he can also view the score. On behalf of this website, instructor can also track the user performance. Here, the students and the faculty performance may also view in the dashboard format.

### III. RESULTS AND DISCUSSIONS

Our project works following the module admin. After logging into the system, the admin will give approval for the students who has registered recently. Then he views the student registered course details. Based on that, the admin sends the request to the relevant instructor. After getting the request from the admin, the instructor uploads the requested course materials and get approval from the admin. Then admin will map the courses to the student those who registered for that. The whole website is controlled by the admin. The admin as the rights to add or remove the student user, as well as he can add the new

instructors, or remove the instructors. The second main person is the instructor, who accepts the admin message then uploads the course to student Homepage after admin accepting it. Then he may also create the assessment page link for the particular student user and sets it in the student home page when the student views the whole material then only Admin will allow access to the assessment page. Instructor who views the student Assessment page to validate it and provide marks to the particular assessment page. Student first done the signup by giving is information for login purpose. Then he registers for the particular course and view the course in the student homepage platform. After the student completing his course material learning, then he clicks on to the assessment page to know his ability in the form of scores.

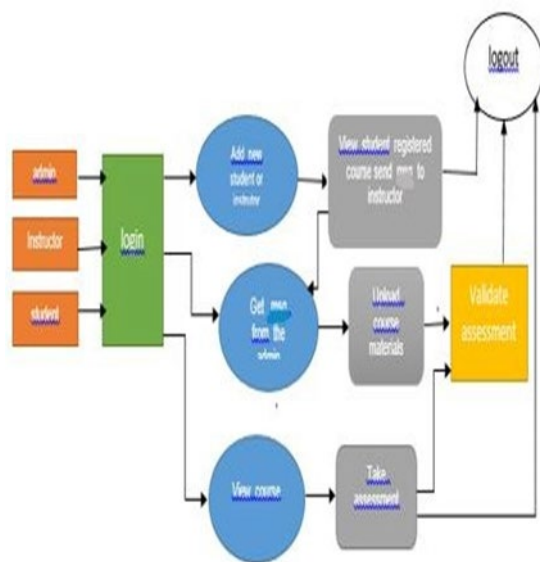


Fig.1. Architecture of Web -based course system

#### IV. CONCLUSION

Hence, the above system we have implemented here is the organization-oriented system, which will assist the user in an education sector and those who are eager to learn the new things through online. This system will not only used by the education sector people it may be used by the people those who are in working area. It is an optimized way of learning platform. By using this, the user can improve their skills up. This application system makes the user to learn in an efficient and effective way.

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