



**Abstract:**

This report is based on the review of different college management systems and learning systems that have helped to improve the academic skills of students. Since, few decades the way of learning has drastically changed the students does not have to go to school or college to get the resources from teachers they can have easy access to them staying in home only this has highly helped students to get the academic papers and facilities from the teachers any time they need. So, to highlight such topics and to evaluate different college management systems, and learning systems this report is being written. Also, different management systems will be critically evaluated in this report, along with the minor comparisons between different management systems.

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## Introduction:

Since, few decades the way of learning has changed, which has helped students to get the quality education. This is the generation of technology where every field is operated from the technologies and online resources.

In the field of education there is a positive impact of technology. Now, colleges and universities provide academic facilities through the systems using the best technologies available. Using such technologies provides different facilities that will eventually help both colleges and university as well as students to enhance their learning. Colleges can easily operate and provide academic facilities to their students whereas students can easily get the academic facilities and can upgrade their academic status. For example, if a teacher wants to provide assignments to the students and mark them, they should not provide the assignments physically instead they can use the systems to provide the same assignments which will help to systemize the learning process efficiently. This can eventually be helpful to students as well because they can submit the assignment from the system only.

There are different such systems that provide different facilities like teach mint, etc. Such systems provide facilities to both colleges and their students to enhance the learning experience.

## Literature Review:

### 1. TEACHMINT APPLICATION: A LEARNING MANAGEMENT SYSTEM TO ACCESSIBILITY AND PERFORMANCE IN INFORMATION AND COMMUNICATION TECHNOLOGY (I.C.T): (Yunus, 2020)

Innovative technology has kept an impact on almost every field. Similarly, in educational and learning fields technology has created a positive impact. (Quinto, 2023) Teach mint is one of the learning technologies. Teach mint is a simple management system which is used to present academic content, which can be used in different devices like mobile phones and laptop etc. (Quinto, 2023) This provides different tools to engage the students and teachers online outside class anytime and anywhere. (Quinto, 2023)

Teach mint has focused on different aspects to provide best academic facilities to students, teachers as well as the parents of students. The main features of the Teach mint includes learning management, skills assessment, training management, communication, and assignment management. (Quinto, 2023) This feature helps students, teachers, and student's parents in following aspects:

- i. Teachers will have the following features that can be used:
  - a. Assessing students' data.
  - b. Giving activities to students.
  - c. Enhanced teaching process. (Quinto, 2023)
- ii. Students will have the following features that can be used:
  - a. Submission of assignments.
  - b. Access to learning materials posted by teachers.
  - c. Enhanced learning process. (Quinto, 2023)
- iii. Parents of students will have the following features that can be used:
  - a. Student's result (output).
  - b. Student's activity performance (Quinto, 2023)

Depending on different features that can be used by teachers, students and parents here are some evaluations that has been found for this system:

**Note: The mean here indicates a medium to calculate the average of the scores obtained and level of accessibility of students and teachers in learning management. Whereas the standard deviation is used to find out the spread of the respondents. (Quinto, 2023)**

1. **Learning Management:** For learning management, the evaluation has been made and the remarks have been captured and found that the mean of the evaluation is 4.76 out of 5 and the standard deviation is 0.43 for students whereas for the teachers the mean of evaluation is 5 and standard deviation is 0. (Quinto, 2023)
2. **Assignment management:** For assignment management the evaluation has been made and the remarks have been captured and found that the mean of the teachers is 5 and standard deviation is 0 for monitoring the activities done by students , whereas for checking the submitted output the mean is 4.60 and standard deviation is 0.55. (Quinto, 2023)
3. **Communication management:** For communication management the evaluation has been made and the remarks have been captured and found that the mean of teachers for the communication management evaluation is 4.94 and standard deviation is 0.41 whereas for the students the evaluation of mean is 4.92 and standard deviation is 0.25. (Quinto, 2023)
4. **Skill management:** For skills management the evaluation has been made and the remarks have been captured and found that the mean of the teachers for the skills management evaluation is 5 and the standard deviation is 0, whereas the standard deviation for accessing the student's skills and abilities is 0.5 whereas the mean is 4.60. (Quinto, 2023)
5. **Training management:** For training management the evaluation has been made and the remarks have been captured and found that the mean of the teachers evaluating the training management by training workshops that is included in app is 5 and the standard deviation is 0, whereas the evaluation for standard deviation to train students is 0.55 and the mean is 4.40. (Quinto, 2023)

## 2. GOOGLE CLASSROOM AS LEARNING PLATFORM IN TEACHING WRITING: (Quinto, 2023)

Nowadays the technology in education is rising very quickly. The raising of the technology in education helps in improving the way of learning and helps both teachers and students in providing and receiving academic materials. (Yunus, 2020)

One of the widely used learning management systems is google classroom from google.com. Google classroom was launched for public use in 2014. According to [www.support.google.com](http://www.support.google.com), google classroom was made to provide the facilities for providing the better education for students. Google classroom focuses on efficiently managing the assignments, increasing collaboration, and improving communication. (Yunus, 2020) Google classroom helps teachers to provide lessons, distribute assignments to students, provide feedback, through the system. (Yunus, 2020) Google classroom is being used to provide the teaching context to the students. Some of the features of google classroom includes, giving announcements to students, class discussions, Attach assignments for students, feedbacking, attendance tracking, score and evaluation of student's assignments. (Yunus, 2020)

Google classroom is easy and simple to use still there can be different challenges that can affect the classroom activities. There are some greater problems that can occur while using the google classroom like impact on visual cues such as voice, and problem in face-to-face communication. There can also occur some other problems like google classroom can be used as the social media site rather than being used as the learning application. (Yunus, 2020) Since google classroom requires high internet speed, good device this can become a challenge in using this app. If students do not have a pc or smart phone, they will not be able to access this app. This is huge challenge of using this app or any other learning management system. If the students are only focused on online learning they can lack different other skills like communication skills, face-to-face talking skills and so on. (Yunus, 2020)

Conducting the traditional classes or any other learning activity is not enough and efficient in today's time. Instead using learning systems for providing academic facilities for students can be more efficient and easier. With the help of google classroom teachers can post the supporting materials , notices, assignments, and quizzes online without having face-to-face interactions with students.

Google classroom can't be used as the only source for learning without using traditional approach of learning. Google classroom can be used as the means of learning efficiently, but the traditional approach should also be considered along with it. This will make the learning output of students better.

### 3. CANVAS LMS: OPPORTUNITIES AND FEATURES: (Oleksii Nalyvaiko, 2021)

The way of learning since Covid-19 pandemic has drastically changed. The attitude and approaches towards learning have been digitalized after Covid-19 pandemic. The traditional approach of learning has been modernized and both students and teachers are digitally involved in the learning management systems which has made the task of both students and teachers more efficient and easier. (Oleksii Nalyvaiko, 2021)

Canvas LMS is gradually taking one of the leading roles in online learning management systems. (Oleksii Nalyvaiko, 2021) In this journal the main aim of study was to explore the interactive online platform Canvas free-for-teacher and free-for-students, their opportunities as well as negative features. (Oleksii Nalyvaiko, 2021) The data for the study has been collected with the help of theoretical and experimental methods. (Oleksii Nalyvaiko, 2021) The experimental methods include questionnaires, surveys, and reviews.

Canvas Free-For-Students and Free-For-Teachers, available in online format for all the devices, android, windows as well as iOS. In order to become the canvas user, learner or teacher should register to the system. After registering the user can login to the system.

For research 50 university students at the School of Foreign Languages who have been using this system have been asked to fill up 10 google forms with different questions related to the study of the system. Here are the questions and answers from the students. (Oleksii Nalyvaiko, 2021)

1. Have you used both versions of canvas? (Oleksii Nalyvaiko, 2021)  
➔ The majority of the answer was yes , which means the canvas registration in both versions for smart phones and websites is easy to use. Almost 98% of students' answer was "yes" whereas 2% student's answer was "no, only one". (Oleksii Nalyvaiko, 2021)
2. Did you have problems with logging in? (Oleksii Nalyvaiko, 2021)  
➔ When these questions were asked 90% of students had no problem in login process, 8% of students said after registration while logging in the system they experienced some complications. And 2% of responders found logging complicated. (Oleksii Nalyvaiko, 2021)
3. (Question for those who found logging in complicated) : Did you have typed your username instead of your email to re-enter the profile? (Oleksii Nalyvaiko, 2021)  
➔ The 100% output was "yes" , they have typed the username instead of email to reenter the profile. (Oleksii Nalyvaiko, 2021)
4. Were you satisfied with the platform interface in both versions? (Oleksii Nalyvaiko, 2021)



- ➔ For this question 76% of users answer was “yes”, 16% of user’s response was “No, only with the PC version” , 4% of user’s response was “No, only with mobile version” and 4% of user’s response was “no”. This shows that the majority of the response is saying that both versions of canvas are good. (Oleksii Nalyvaiko, 2021)
5. Was it difficult to add personal information into your profile? (Oleksii Nalyvaiko, 2021)
- ➔ For this the majority of user’s response was “no”. All the students enjoyed the simplicity of adding the personal information onto the canvas. Except for one respondent who had problem in uploading the photo to the canvas, for that the respondent had to decrease the size of the image and then keep it to the canvas. (Oleksii Nalyvaiko, 2021)
6. Did you manage to enroll in the course(s) you aimed at? (Oleksii Nalyvaiko, 2021)
- ➔ For this the response was 100% “yes”, which means its easy to enroll to the course the respondent was aiming to. (Oleksii Nalyvaiko, 2021)
7. Was it possible for you to do tasks, upload files, take tests? (Oleksii Nalyvaiko, 2021)
- ➔ For this 92% response was “yes” whereas 8% of response was “not all of them”. This means it’s easy to submit tasks, upload tasks and take tests from canvas. (Oleksii Nalyvaiko, 2021)
8. Was the format of studying convenient for you? (Oleksii Nalyvaiko, 2021)
- ➔ For this 80% of the response was “yes, absolutely” whereas 14% of response was “only in a version for desktop” and 4% of the response was “only in mobile version” and rest of 2% was “no, its complicated”. (Oleksii Nalyvaiko, 2021)
9. Would you like to use Canvas as one of the main platforms for studying?
- ➔ For this the response was 74% “yes”, 16% was “maybe for some classes”, 6% was “no, I didn’t like the platform” and remaining 5% was “no”.
10. Did you enroll in any public courses with open access?
- ➔ For this 42% of response was “yes”, 32% of response was “no” and 26% of response was “no, I don’t want to”.

Here, with the help of these questions we can easily evaluate the usefulness of the Canvas Learning System for the students.

## Moodle – An Effective Learning Management System for 21st Century Learners (Dr. K Syamala Devi, 2020) (Rabiman Rabiman, 2020)

Traditional way of teaching where teachers give hours long lectures does not work with today's students, for this use of online learning management systems is best alternative way to provide academic facilities to the students. (Dr. K Syamala Devi, 2020)

There are different popular open-source learning management systems. One of them is "Moodle". Moodle is a software package that provides facilities to produce internet-based courses. (Dr. K Syamala Devi, 2020). The word MOODLE is an acronym for Object-Oriented Dynamic Learning Environment. (Dr. K Syamala Devi, 2020) There is various importance which makes the use of learning management system like Moodle more important. Some of the importance are Skill analysis, material development, learning , and evaluation. (Dr. K Syamala Devi, 2020)

Moodle is a great tool for teachers since it helps in creating and saving teaching materials easier. (Dr. K Syamala Devi, 2020) Moodle allows the integration of a wide range of resources from online books, online learning source and so on. (Dr. K Syamala Devi, 2020)Some of the applications of Moodle are, it provides materials for students, assessment for students, it is useful for both students and teachers, and so on. (Dr. K Syamala Devi, 2020)

Moodle have positive impact on the students. Some of the effects of Moodle are:

- a. Improves academic skills of students. (Dr. K Syamala Devi, 2020)
- b. Improves the self-development capacity of students. (Dr. K Syamala Devi, 2020)
- c. Improves the communication skills of students. (Dr. K Syamala Devi, 2020)
- d. Helps in promoting the content made by students. (Dr. K Syamala Devi, 2020)

## Evaluation of Learning Management Systems A Comparative Study Between Blackboard and Brightspace: (Hanaa A. Yamani, 2022)

The learning style in the 21st century has changed by a lot. Students are getting efficient and faster learning experiences using online learning management systems. (Hanaa A. Yamani, 2022) The digital evaluation in learning field has changed the way of learning. (Hanaa A. Yamani, 2022) There are many such online learning management systems that has helped to make the students learning mechanism more efficient and faster.

Blackboard and Brightspace are two famous learning management systems. Both of these LMS are used by a university named **Umm Al-Qura University**. The research has been made by this journal regarding the use of Blackboard and Brightspace. Research was done among 512 students. Among them it was found that 36% of students used Brightspace whereas 64% of students used Blackboard. When the result of the students was calculated who used Blackboard it was found that the mean of result was 37 and the standard deviation was 8.5. Whereas in context of Brightspace it was found that the mean of result was 40 and the standard deviation was 7.7. This means that the result of the students using Brightspace is better than the students using Blackboard. (Hanaa A. Yamani, 2022)

In order to provide students with a better learning process, LMS is not only the solution. (Hanaa A. Yamani, 2022) Both traditional way of learning and LMS should be taken side by side with good guidelines to students can be better way of providing better academic facilities to the students. (Hanaa A. Yamani, 2022)

### Comparison between TEACHMINT and Our system:

comparison of	TEACHMINT	Our system
Login system	✓	✓
Set role by admin	✓	✓
Attendance System	✓	✓
Assignment to students	✓	✓
Students submitting assignments	✓	✓
Based for multiple colleges	✓	
Online sources for learning	✓	
Send notices to students	✓	✓
Add view update delete users by admin	✓	✓

### Comparison between Google classroom and our system:

comparison of	Google classroom	Our system
Login system	✓	✓
Set role by admin	✓	✓
Attendance System	✓	✓
Assignment to students	✓	✓
Students submitting assignments	✓	✓
Based for multiple colleges	✓	
Online sources for learning	✓	
Send notices to students	✓	✓
Add view update delete users by admin	✓	✓

### Comparison between Canvas and Our system:

comparison of	Canvas	Our system
Login system	✓	✓
Set role by admin	✓	✓
Attendance System	✓	✓
Assignment to students	✓	✓
Students submitting assignments	✓	✓
Based for multiple colleges	✓	
Online sources for learning	✓	
Send notices to students	✓	✓
Add view update delete users by admin	✓	✓

### Comparison between Moodle and Our system:

comparison of	Moodle	Our system
Login system	✓	✓
Set role by admin	✓	✓
Attendance System	✓	✓
Assignment to students	✓	✓
Students submitting assignments	✓	✓
Based for multiple colleges	✓	
Online sources for learning	✓	
Send notices to students	✓	✓
Add view update delete users by admin	✓	✓

### Comparison between Blackboard, Brightspace and Our system:

comparison of	Blackboard	Brightspace	Our system
Login system	✓	✓	✓
Set role by admin	✓	✓	✓
Attendance System	✓	✓	✓
Assignment to students	✓	✓	✓
Students submitting assignments	✓	✓	✓
Based for multiple colleges	✓	✓	
Online sources for learning	✓	✓	
Send notices to students	✓	✓	✓
Add view update delete users by admin	✓	✓	✓

## Conclusion:

This is the 21<sup>st</sup> century where technology is growing very fast. In every field the use of technology is getting increased day by day. In the field of learning and academics the use of technology has been increased since the time of Covid-19 pandemic where there were not any physical classes being conducted and all the academic materials and classes were being conducted online.

There are many such learning management systems (LMS) that provide different facilities so that the students can perform academic activities in systematic way more efficiently. Some of them are listed above like: Canvas, Google classroom, Moodle etc. Such systems are made by the technicians and top-quality coders with high customizations and optimization. To make such systems it takes a huge amount of time and materials.

I have also compared our system with other popular and highly used systems. I have evaluated that in every system the user experience really matters. The way students use the system directly makes an impact on how the academic status of a students will be. So, to provide better user experience is highly important.

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