



**Umm Al Qura University**

**College of Engineering and Computers in Al-Qunfudhah**

**Department of Computer Scienc**

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**Software Name : Blackboard**

**PREPARED BY :**

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## **1.1 Functional Requirement:**

### **1.1.1 User requirement**

A system that facilitates the learning process and allows teachers and students to easily access educational content in one place and interact with each other.

### **1.1.2 System requirements:**

1-The system must provide a way to log in:

- The system should allow students and teachers to create a new account using a phone Number oemail and set a password- The system should allow customers to log in if They have previously created a valid and confirmed account.

2- The system must allow users to manage courses:

- Users should be able to access enrolled courses, upload assignments, exams, and content through the instructors.

3-The system must allow the evaluation of student performance:

- Instructors should have the ability to manage student evaluations, including recording grades and providing feedback on assignments and exams.

## **1.2 Non-Functional requirements:**

1- Usability: How easy it is for users to navigate and use the platform.

2- Performance: The speed and responsiveness of the platform, particularly during high usage times.

3- Reliability: The platform's uptime and stability, ensuring it does not crash or experience frequent outages.

4- Security: The security of user data, including privacy and protection against unauthorized access.

5- Scalability: The ability of the platform to handle an increasing number of users or larger datasets without degrading performance.

## **Main Tasks:**

1. Allows students to access course content, assignments, and tests provided by teachers.
2. Facilitates communication between students and teachers through messages or virtual classrooms.
3. Enables course registration and allows students to access them at any time.

### **1.3 Determine the Program's Purpose**

Name of Program: Blackboard

Program: The main aim of this educational management system is to simplify the learning experience for both students and teachers by serving as an intermediary in accessing study materials, examination papers, assignments and all other forms of learning resources.

Messaging, virtual classrooms, and performance reviews are all features that help educators talk to learners. It tackles the problems — fragmented educational content, and haphazard communication — to simplify learning, making it more efficient and systematic.

Why does the program exist? The purpose behind the development of this platform is to fulfil the current requirement in education sector i.

Checkout Academic Video Online, for a perfect solution to manage online and hybrid learning environments. Enhanced student-teacher communication.

Coursework and Test/Exercise Sheets are readily available.

Performance evaluation and feedback from teachers to students in an efficient way.

#### **1.4 Problems it solves:**

- 2- Poor course management: Schools and universities still operate with fragmented systems — platforms for assignments, another separate system for messages, and yet something different for tests; these make it harder to manage all that has to be accomplished.
- 3- Communication Bottlenecks: Teachers and students may struggle to communicate quickly and effectively, causing assignments to slip between the cracks and instructions to seem out of sync.
- 4- Poor Security: Some current platforms do not take security seriously leading to the exposure of personal and academic information.
- 5- While Many platforms have scalability problems when the number of users goes up and you can experience crashes or slow loading.

- **Needs Addressed:**

- 1- Centralization Saves Time: Everything is in one place (assignments, course content, communication) making it easy for both students and teachers to use SLS.
- 2- Security where two-step verification to make sure the students' data is perfectly safe.
- 3- We need our users to have access to an optimized and buttery smoothest interaction at all time, especially during high traffic period the very quick load time (below 3 seconds) of the platform was a clear winner whenever this topic has come into discussion.

### 1.5 Comparison of Blackboard with Similar application " Madrasati " :

	Blackboard	Madrasati
user interface	Flexible and globally diverse, but may be less .intuitive for some users	Easy to use and tailored for the Saudi educational system.
Accessibility and Scalability	Designed to support a large number of users efficiently	Flexible in terms of access, but faces challenges in international expansion.
Support and Training	More comprehensive support and training system.	May require additional training for teachers.
Content Variety	Diverse content to meet global user needs.	Limited content tailored to the local system.

## 1.6 Conduct a Survey or Interview

You need to source at least five student responses about what they think about the platform and where it may be improved, according to the assignment. This is how you would carry and evaluate this study:

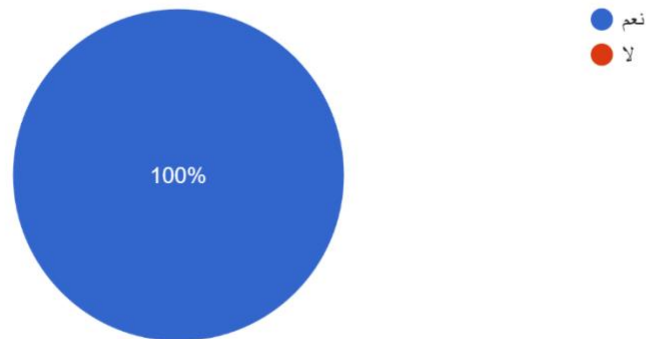
Survey Questions:

<https://docs.google.com/forms/d/e/1FAIpQLSfIHaw2cFb3fXHfDFpISP8k5xbZxjVfaCUVodyLXVkqd8DBQA/viewform>

## Survey Results

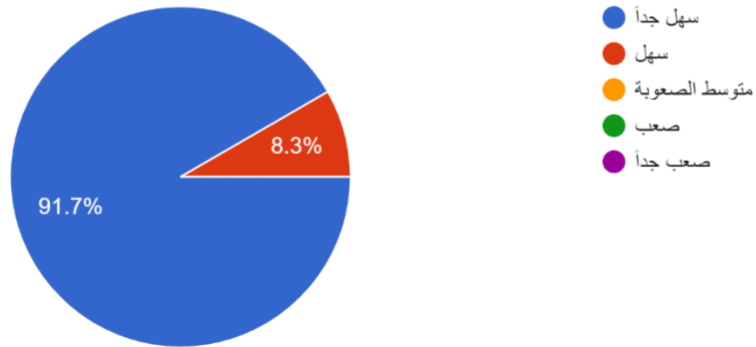
هل تستخدم تطبيق blackboard؟

12 responses



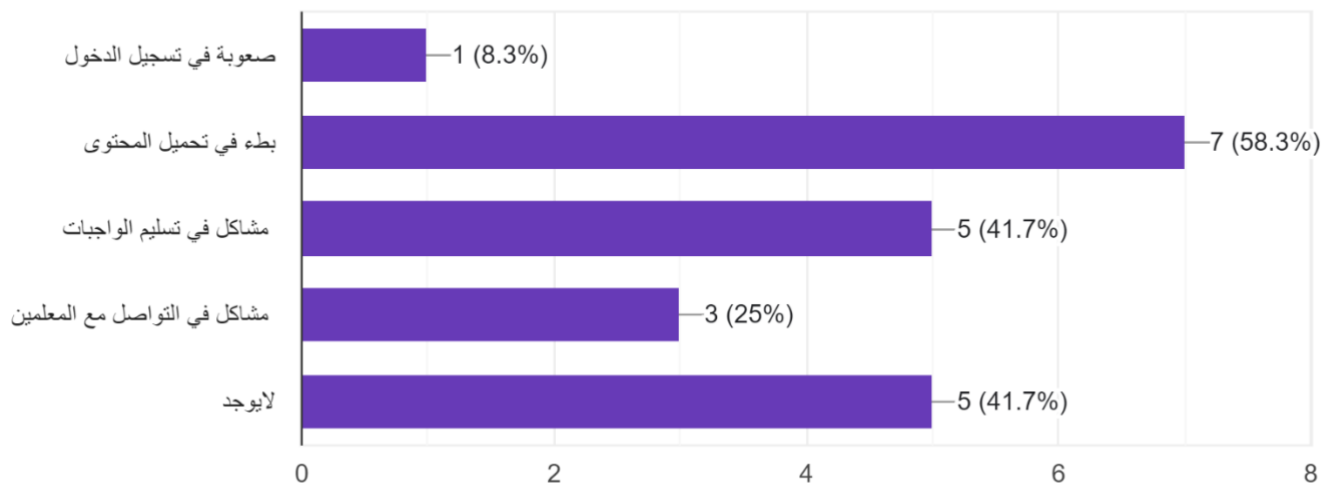
ما مدى سهولة استخدامك لتطبيق البلاك بورد؟

12 responses



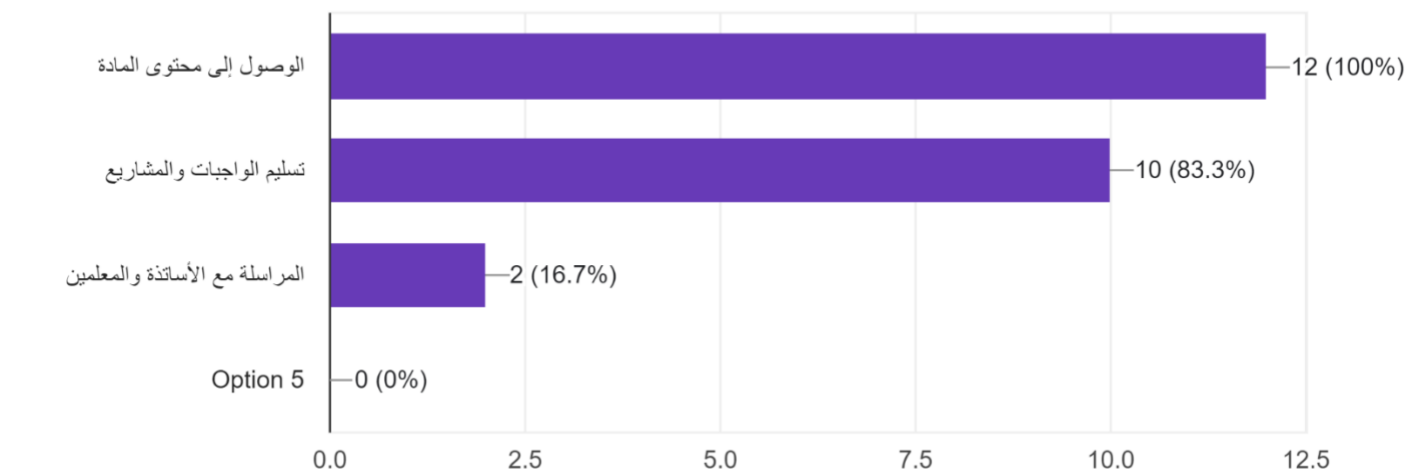
ما هي المشاكل التقنية التي واجهتها أثناء استخدام البلاك بورد؟

12 responses



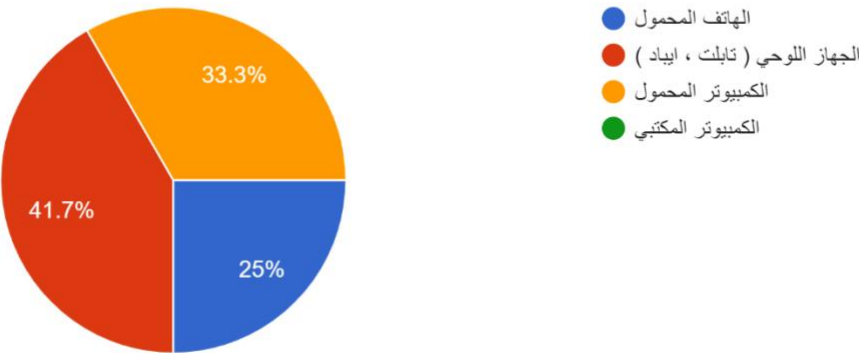
ما هي الميزات التي تعتبرها الأكثر فعالية لتلبية احتياجاتك؟

12 responses



ما هو الجهاز الذي تستخدمه عادةً للوصول إلى تطبيق البلاك بورد؟

12 responses





ما مدى رضاك عن التطبيق ؟

12 responses

التطبيق ؟

6 respor

3

2

1

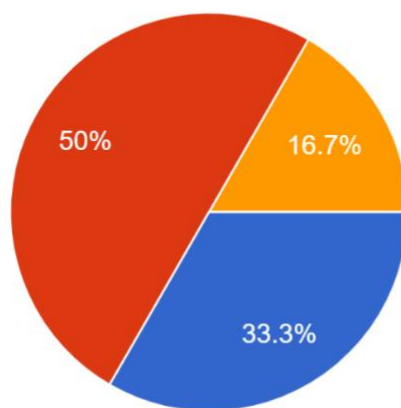
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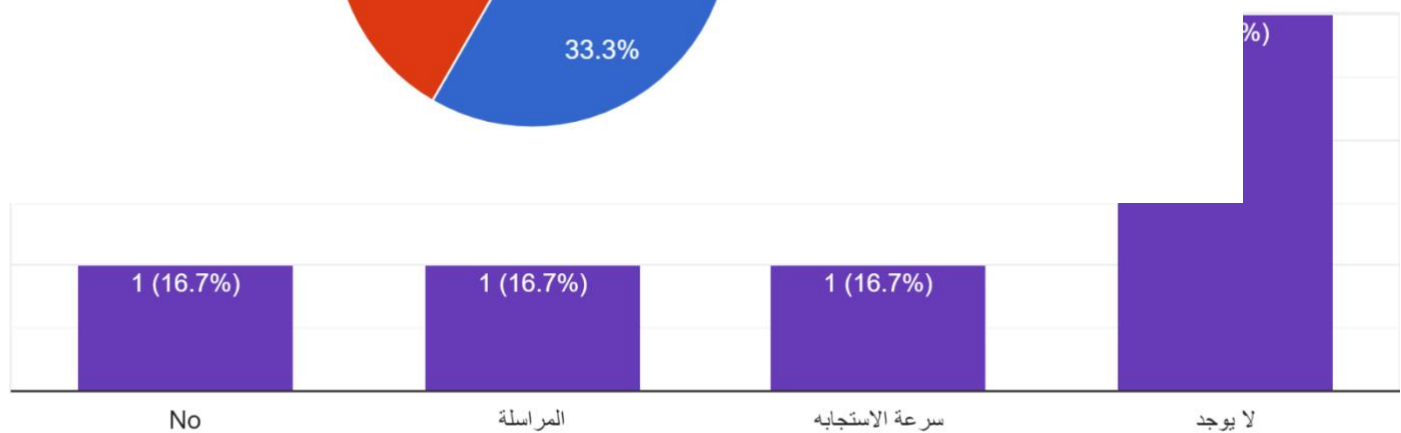
المراسلة

سرعة الاستجابة

لا يوجد

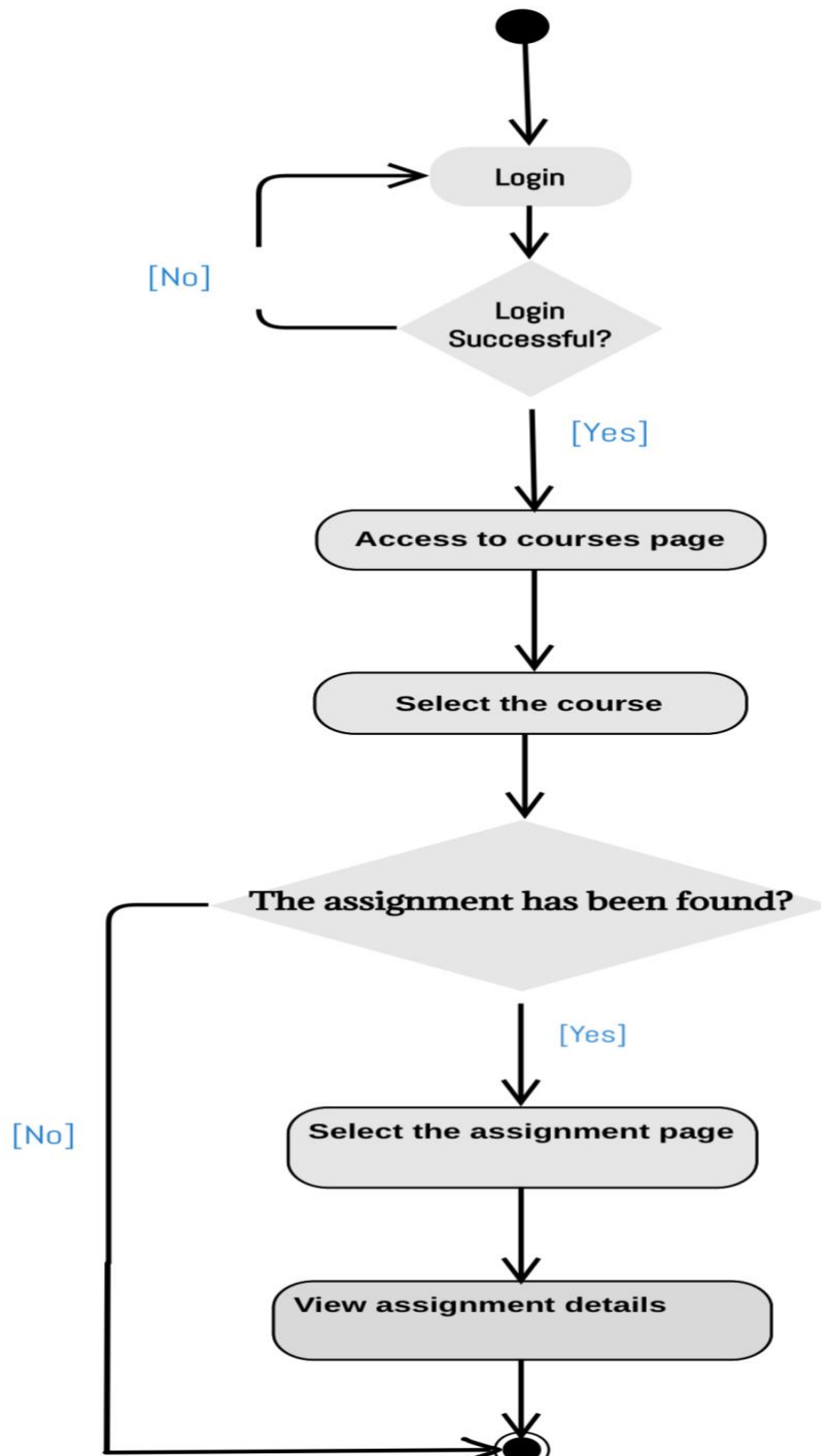


- راض جداً
- راضي
- محايد
- غير راضي
- غير راضي جداً

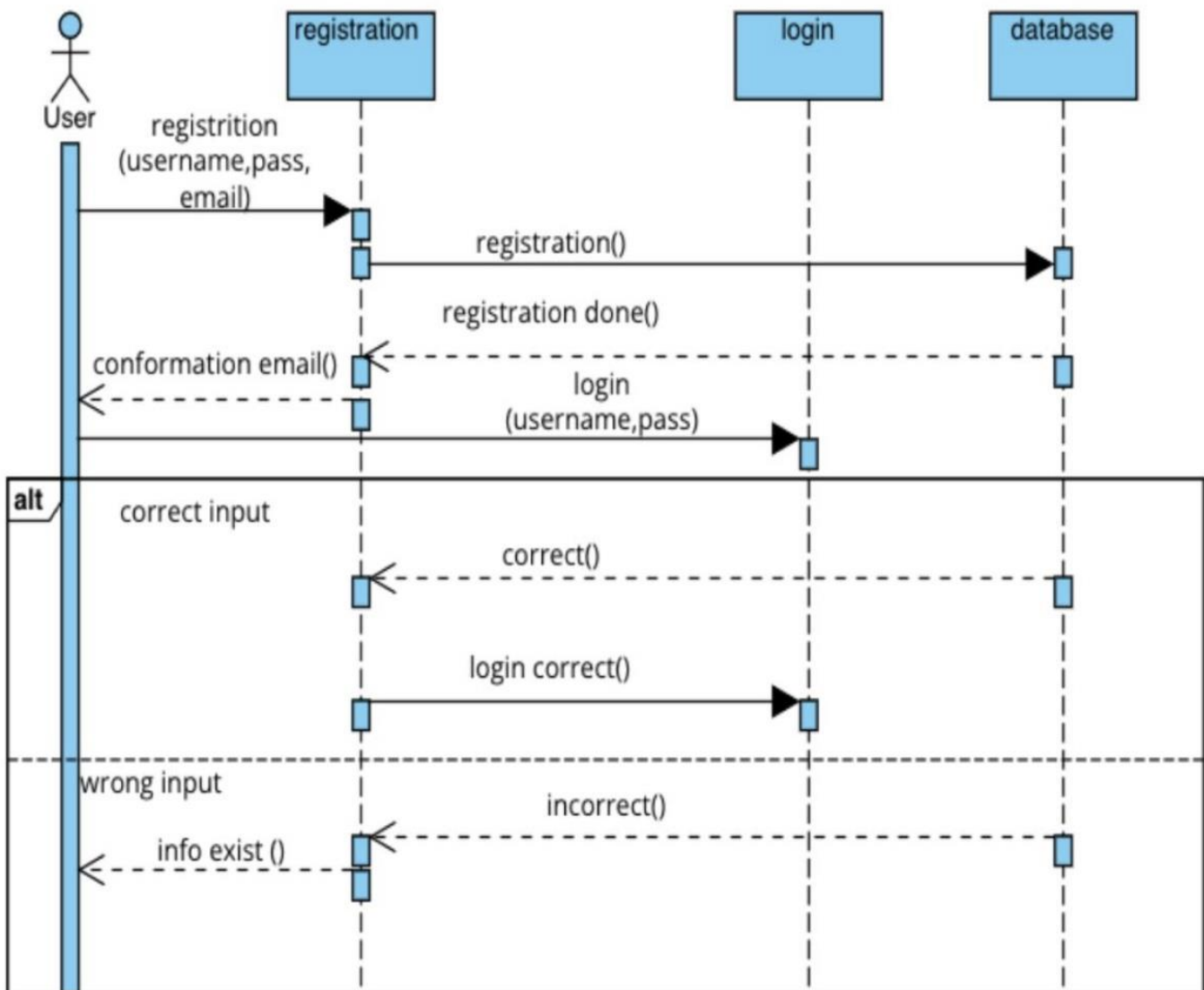


## 1.7 System diagrams :

### 1.7.1 Activity diagram



## 1.7.2 sequence diagram



## 1.8 References

*Learning from Saudi Arabia's journey to digital and distance education.* (n.d.). World Bank Blogs. <https://blogs.worldbank.org/en/education/learning-saudi-arabias-journey-digital-and-distance-education>

Alokluk, J. A. (2018). The Effectiveness of Blackboard System, Uses and Limitations in Information Management. *Intelligent Information Management*, 10(06), 133–149. <https://doi.org/10.4236/iim.2018.106012>

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