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### Introduction

- The comprehensive features of QuickXam, include customizable exams, real-time monitoring, and automated grading, ensuring efficient and effective exam administration.

### Aims and Objectives

#### Aim:

- To enhance the examination process through a modern and user-friendly platform.

#### Objectives:

- Provide **immediate feedback** to students after completing exams, enabling them to identify strengths and areas for improvement.
- Implement post-test **analytics** to generate detailed performance reports, highlighting student progress and providing valuable insights for educators.
- Offer **timed-examinations** to simulate real-life test conditions, fostering time management skills and exam readiness.
- Incorporate **random question sets** to ensure fairness and prevent cheating by presenting unique sets of questions to each student.

### Academic Questions

- QuickXam:** Addressing exam challenges, implications for stakeholders?
- Theories in QuickXam:** Enhancing online learning, assessment?
- User perceptions:** QuickXam usability and effectiveness compared to traditional exams?

### Literature Review

| Source   | Key findings   |
|--|--|
| The Design of Online Examination System (Yong-Sheng, 2015)   | Online examination system is a three-tier architecture model based on the B/S (Browser/ Server) structure            |
| Anti-Cheating Approach Derived from Automatic Question Paper Generation Algorithm (Qianrang, 2011) | Algorithms like knapsack problem-inspired approach ensure the stability and quality of question papers.              |
| Algorithm to Distribute the Forms for Online Examination Systems (Bazar, 2017)                     | Allocation of terminal numbers and MAC address verification ensure fairness and uniqueness in question distribution. |

### Gantt Chart



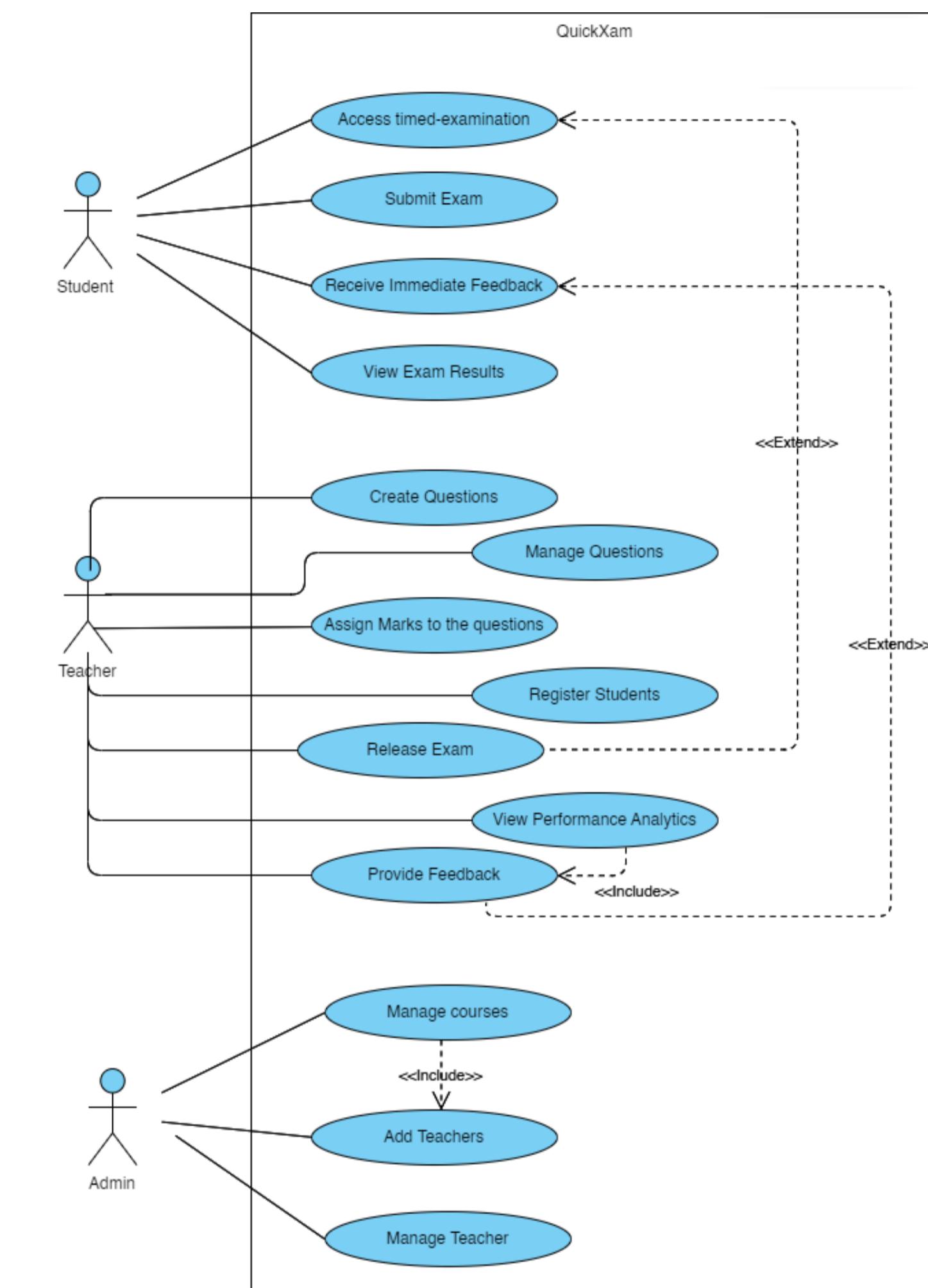
### Testing(s)

Black Box Testing

Boundary Value Analysis

User Acceptance Testing

### Use Case Diagram



### Product Evaluation

- QuickXam:** Empowering seamless and efficient exam experiences through its user-friendly interface and streamlined processes.
- Robust Technology Stack:** ReactJS, ChartJS, NodeMailer, MongoDB. Positive user feedback, potential for further enhancements.
- Future:** Enhanced question variety, fine-tuned grading system.

### Developed using:

