# Day 4 – Auto Evaluation Simulation (Test Case Runner)

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## Introduction:

On Day-3, I implemented the Java API and integrated MySQL. On Day-4, I worked on networking features to simulate quiz submissions and automatic evaluation. Since real exam systems are not connected, I used socket programming to simulate student submissions and auto-grading.

## System Design Overview:

- Each student client is simulated as a TCP client.  
- QuizServer acts as a TCP server that accepts quiz submissions.  
- EvaluationService automatically checks answers and assigns scores.  
- Results are updated in MySQL after evaluation.

## Implementation Details:

- QuizServer.java → Accepts connections and processes quiz answers.  
- QuizClient.java → Simulates student submitting quiz.  
- EvaluationService.java → Auto-grades submitted answers.  
- DAO classes updated to insert quiz results.  
- MainApp.java updated with new menu option: Submit Quiz.

## Testing Performed:

1. Started QuizServer.  
2. Student submitted quiz answers using QuizClient.  
3. Server evaluated answers and returned score.  
4. Verified result entry was added in results table.  
5. Tested invalid answers and incomplete submissions.

## Conclusion:

On Day-4, I successfully integrated networking features into the E-Learning Platform. The system now allows simulated quiz submissions via socket programming, automatic evaluation, and result storage in the database. This completes the auto-evaluation core functionality.