

Requirement #: 1

Requirement Type: 9

Event/BUC/PUC #:

Description: The system should allow users to upload PDF files containing exam answer sheets.

Rationale: Uploading answer sheets is the primary way to input data for analysis.

Originator: Teachers, Administrators

Fit Criterion: The system should successfully extract answers from the uploaded PDF files.

Customer Satisfaction:

Priority: High

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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Requirement #: 2

Requirement Type: 9

Event/BUC/PUC #:

Description: The system should extract student answers from the uploaded PDF answer sheets.

Rationale: Answer extraction is necessary for calculating scores and analyzing performance.

Originator: Teachers, Administrators

Fit Criterion: The system should accurately extract answers and associate them with the correct questions.

Customer Satisfaction:

Priority: High

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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Requirement #: 3

Requirement Type: 9

Event/BUC/PUC #:

Description: The system should have access to a database of correct answers provided in an Excel or CSV format.

Rationale: Correct answers are needed for comparing with extracted answers.

Originator: Teachers

Fit Criterion: The system should accurately match extracted answers with the correct answers.

Customer Satisfaction:

Priority: High

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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Requirement #: 4

Requirement Type: 9

Event/BUC/PUC #:

Description: The system should calculate the scores for each student based on their extracted answers.

Rationale: Calculating scores is essential for assessing student performance.

Originator: Teachers

Fit Criterion: The system should accurately calculate student scores and associate them with the correct students.

Customer Satisfaction:

Priority: High

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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Requirement #: 5

Requirement Type: 9

Event/BUC/PUC #:

Description: The system should calculate the total score and average score for the entire class.

Rationale: Class totals and averages provide insights into overall class performance.

Originator: Teachers

Fit Criterion: The system should accurately calculate class total and averages.

Customer Satisfaction:

Priority: Medium

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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Requirement #: 6

Requirement Type: 9

Event/BUC/PUC #:

Description: The system should analyze the performance of each question based on student answers.

Rationale: Question analysis helps identify the difficulty level of questions.

Originator: Teachers

Fit Criterion: The system should provide statistics on question performance, including the percentage of correct and incorrect answers.

Customer Satisfaction:

Priority: Medium

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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Requirement #: 7

Requirement Type: 9

Event/BUC/PUC #:

Description: The system should determine the difficulty level of each question (easy, moderate, hard) based on student performance.

Rationale: Question difficulty classification aids in understanding question complexity.

Originator: Teachers

Fit Criterion: The system should accurately classify questions as easy, moderate, or hard.

Customer Satisfaction:

Priority: Medium

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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Requirement #: 8

Requirement Type: 9

Event/BUC/PUC #:

Description: The system should display the calculated scores, class totals, averages, question statistics, and question difficulty levels.

Rationale: Displaying results provides insights for teachers and administrators.

Originator: Teachers

Fit Criterion: The system's user interface (if developed) should show accurate analysis results.

Customer Satisfaction:

Priority: High

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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Requirement #: 9

Requirement Type: 9

Event/BUC/PUC #:

Description: The system should allow users to export analysis results to Excel or PDF formats.

Rationale: Exporting results enables further data manipulation and reporting.

Originator: Teachers, Administrators

Fit Criterion: The system should generate downloadable files containing analysis results.

Customer Satisfaction:

Priority: High

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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Requirement #: 10

Requirement Type: 9

Event/BUC/PUC #:

Description: The system should be thoroughly tested with sample answer sheets to ensure accurate data extraction and analysis.

Rationale: Testing ensures the reliability and correctness of the system.

Originator: Quality Assurance Team

Fit Criterion: The system should pass predefined test cases for data extraction, calculation, and analysis.

Customer Satisfaction:

Priority: High

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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Requirement #: 11

Requirement Type: 9

Event/BUC/PUC #:

Description: The system should provide clear error messages and notifications to users, particularly when errors occur due to low tolerance levels during data extraction

Rationale: Transparent error communication helps users understand issues and improve data quality.

Originator: Developers, Quality Assurance Team

Fit Criterion: The system should display informative error messages, indicating the nature of the error and possible solutions.

Customer Satisfaction:

Priority: Medium

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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Requirement #: 12

Requirement Type: 9

Event/BUC/PUC #:

Description: The system, optionally, should allow users to input SQL queries to create custom interpretations of the analysis results.

Rationale: SQL queries provide advanced users with more flexible analysis options.

Originator: Teachers, Data Analysts

Fit Criterion: The system should execute user-provided SQL queries on the stored data and generate customized interpretations.

Customer Satisfaction:

Priority: Low

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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Requirement #: 13

Requirement Type: 9

Event/BUC/PUC #:

Description: The system, optionally, should allow users to input parameters related to the type of test (e.g., multiple choice, true/false) for better analysis accuracy.

Rationale: Different types of tests may require distinct analysis approaches.

Originator: Teachers, Data Analysts

Fit Criterion: The system should incorporate user-provided test type parameters into the analysis process.

Customer Satisfaction:

Priority: Low

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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Requirement #: 14

Requirement Type: 10

Event/BUC/PUC #:

Description: The system, optionally, should have a user-friendly interface for uploading answer sheets, configuring options, and viewing analysis results.

Rationale: A graphical interface enhances usability and accessibility.

Originator: Teachers, Administrators

Fit Criterion: The system's user interface should allow users to easily perform tasks related to uploading, configuring, and viewing analysis results.

Customer Satisfaction:

Priority: Low

Supporting Materials:

History: Created on 21.08.2023

Customer Dissatisfaction:

Conflicts:

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