

A STRUCTURED APPROACH FOR PROCESSING EXCEL-BASED MULTIPLE-CHOICE QUESTIONS USING REACT AND AI-ASSISTED QUESTION CORRECTION

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This paper presents an interactive system for processing and analyzing Excel-based multiple-choice questions (MCQs) using React.js. The system automates question validation, duplicate detection, similarity assessment, and Bloom's Taxonomy-based action verb verification to improve evaluation efficiency. React.js enables dynamic UI rendering and state management, while XLSX.js and the FileReader API handle Excel data processing. Question similarity is identified using the Jaccard Similarity Algorithm, providing immediate feedback on duplicate entries. An AI-Corrected Question module leverages generative AI to automatically rewrite MCQs using appropriate Bloom's Taxonomy action verbs, enhancing question clarity and cognitive alignment. The paper also outlines implementation strategies and future research directions.
