# Plagiarism Scan Report

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ABSTRACT – This research explores the development and implementation of a client-server mobile application designed to facilitate the diagnosis and therapeutic intervention for individuals with autism spectrum disorder (ASD). The application serves as a collaborative platform connecting healthcare professionals (doctors) and their patients, streamlining the diagnostic process, therapeutic assignment, and progress monitoring. The app operates on a client-server architecture, where doctors, serving as administrators, study patients within clinical settings. Subsequently, doctors assign personalized practice cards to patients for targeted skill development. To assess patient progress, doctors create Multiple-Choice Question (MCQ) tests associated with specific cards, integrating visual and auditory stimuli for a comprehensive evaluation. Patients, utilizing a secure clientside interface, interact with assigned cards and undertake MCQ tests that incorporate both visual stimuli and audio cues. The app fosters an engaging and interactive environment, enhancing the learning experience for individuals with ASD. Key features of the app include a centralized dashboard for doctors to manage multiple patients, review assignment scores, and monitor overall progress. Additionally, a secure parent monitoring feature enables caregivers to access pertinent information with a unique code, fostering collaborative care between healthcare professionals and families. This research delves into the technical aspects of the app, incorporating technologies such as Cloudinary for multimedia management, SQL for database functionality, and React Native for cross-platform mobile development. Methodology includes a comprehensive exploration of the system design, implementation details, and user feedback. 5Dr. Aparna Junarkar Prof. Department of Information Technology BRACT Vishwakarma Institute of Information Technology Pune, India aparna.junarkar@viit.ac.in 1. INTRODUCTION 1.1 Background and Context of the Study: Autism Spectrum Disorder (ASD) represents a complex neurodevelopmental condition characterized by challenges in social interaction, communication, and repetitive behaviors. As the prevalence of ASD continues to rise, there is a growing need for innovative and accessible interventions to support individuals diagnosed with this disorder. This research addresses this need by presenting a mobile application designed to facilitate the diagnostic and therapeutic journey for individuals with ASD. The application employs a client-server architecture, creating a collaborative platform connecting healthcare professionals and patients. 1.2 Importance of the Research: The significance of this research lies in its response to the challenges faced by healthcare professionals, particularly

doctors, in efficiently diagnosing and intervening in ASD. Traditional methods often lack the interactive and personalized elements crucial for engaging individuals with ASD in therapeutic activities. This research seeks to bridge this gap by harnessing the potential of mobile technology to enhance the diagnostic process and therapeutic interventions. The application's focus on individualized practice cards, multimedia-enhanced assessments, and secure parent monitoring addresses the multifaceted needs of both healthcare professionals and caregivers. By leveraging technology, this research aims to contribute to the evolving landscape of ASD interventions, emphasizing the importance of collaborative and accessible tools in providing comprehensive care. 1.3 Purpose of the App: The purpose of the developed mobile application is to create a seamless and interactive environment for doctors and patients involved in the diagnosis and treatment of ASD. The app enables doctors to study patients within clinical settings, assign personalized practice cards, and conduct multimedia-enhanced assessments, fostering targeted skill development. Patients, in turn, benefit from an engaging platform that integrates visual and auditory stimuli into therapeutic activities. The app's architecture allows for secure parent monitoring, promoting collaborative care and extending the learning experience beyond clinical sessions. 1.4 Objectives of the Research Paper This research paper aims to achieve the following objectives: Explore the development and implementation of the clientserver mobile application for ASD intervention. Examine the technical aspects of the app, including the use of Cloudinary for multimedia management, SQL for database functionality, and React Native for cross-platform mobile development. Investigate the effectiveness of the app in enhancing the diagnostic process and therapeutic interventions for individuals with ASD. Evaluate user feedback to understand the usability, impact, and potential improvements of the application. Contribute insights to the broader field of technology-assisted interventions for ASD, emphasizing the role of collaborative platforms in personalized care. 2. LITERATURE SURVEY . T The development of the client-server mobile application for ASD intervention involved the utilization of cutting-edge technologies to ensure a robust and user-friendly platform. The following technologies played a pivotal role in shaping the app's functionality: Cloudinary: Employed for efficient multimedia management, Cloudinary facilitated the storage, retrieval, and seamless integration of images and audio files. This cloud-based solution ensured optimal performance and scalability for the multimedia components incorporated into practice cards and assessments. SQL (Structured Query Language): The application's backend relied on SQL for database functionality. SQL was instrumental in managing and organizing data, allowing for the secure storage of patient information, assignment details, and assessment results. This relational database management system contributed to the overall efficiency and reliability of the app. React Native: Chosen for cross-platform mobile development, React Native enabled the creation of a unified user