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ER Diagram 4. IMPLEMENTATION 4.1 Technical Details of App Development: The app development process embraced the React Native framework, providing a cross-platform solution with a single codebase for iOS and Android platforms. Cloudinary integration facilitated efficient multimedia management, allowing for seamless storage and retrieval of images and audio files. The SQL database served as a robust backend, enabling secure data storage and retrieval for patient records, practice cards, and assessment data. 4.2 Challenges Faced During Implementation: Challenges encountered during implementation included: Multimedia Integration: Integrating multimedia elements into the app, such as user-uploaded images and audio, posed challenges in ensuring optimal performance and responsiveness. Cross-Platform Consistency: Achieving consistent user experiences across iOS and Android platforms required careful consideration of platform-specific nuances and optimizations. Real-Time Data Sync: Ensuring real-time synchronization of data between the client-side application and the server presented challenges in maintaining data integrity and minimizing latency. 4.3 Solutions to Overcome Challenges: To address these challenges, we employed the following solutions: Optimized Multimedia Processing: Implemented asynchronous processing for multimedia uploads to prevent performance bottlenecks, ensuring a smooth user experience. Platform-Specific Optimization: Utilized React Native libraries and modules for platform-specific optimizations, ensuring a consistent and polished user interface across both iOS and Android. Real-Time Data Sync Mechanism: Implemented WebSocket technology to facilitate real-time data synchronization, enhancing the responsiveness of the app and ensuring up-todate information for both doctors and patients. 5. RESULTS AND FINDINGS 5.1 Outcomes of the Research: The research yielded positive outcomes, with the app showcasing effectiveness in enhancing the diagnostic and therapeutic processes for individuals with autism. The userfriendly interface, personalized practice cards, and multimediaenhanced assessments contributed to a more engaging and tailored experience for both healthcare professionals and patients. 5.2 User Feedback and Relevant Metrics: User feedback highlighted the app's usability, with healthcare professionals commending the ease of creating custom practice cards and conducting assessments. Metrics such as response times, accuracy rates, and progress over time provided valuable insights into the effectiveness of the app in skill development. 5.3 Impact of the App on Users with Autism: The app demonstrated a positive impact on users with autism, fostering skill development in a

personalized and interactive manner. Users exhibited increased engagement with therapeutic activities, and the integration of visual and auditory stimuli proved beneficial in catering to diverse learning styles. 6. DISCUSSION 6.1 Interpretation of Results and Findings: The positive outcomes and user feedback underscore the potential of technology-assisted interventions in the realm of autism. The app's emphasis on personalization and engagement aligns with current research supporting the effectiveness of tailored interventions for individuals with ASD. 6.2 Comparison with Existing Solutions: Comparative analysis with existing solutions highlights the uniqueness of our app in providing a collaborative platform for doctors and patients. The incorporation of multimedia elements and real-time data synchronization distinguishes our approach, contributing to a more dynamic and responsive intervention. 6.3 Strengths and Limitations: Strengths of our approach include personalized practice cards, effective multimedia integration, and a secure parent monitoring feature. Limitations include potential challenges in internet connectivity affecting real-time sync and the need for ongoing updates to address emerging needs. 7. CONCLUSION 7.1 Main Findings: In summary, the research affirms the positive impact of our client-server mobile application on the diagnostic and therapeutic journey for individuals with autism. The app's innovative features, technological foundations, and user-centric design contribute to a comprehensive solution for healthcare professionals and patients alike. 7.2 Significance of the Research: This research underscores the significance of leveraging technology to enhance personalized care in the field of autism interventions. The positive outcomes reaffirm the potential of collaborative and accessible tools in improving patient outcomes and caregiver engagement. 7.3 Areas for Future Research: Future research endeavors may explore further enhancements to the app, including the integration of additional therapeutic activities, expanded multimedia options, and adaptive learning algorithms. Additionally, longitudinal studies could provide insights into the long-term impact of the app on individuals with autism. This research contributes to the ongoing discourse on technology-assisted interventions for autism, emphasizing the importance of collaboration, personalization, and innovation in shaping the future of healthcare practices for individuals with ASD.