

Miscue Analysis Mobile Solution for Improving Reading Comprehension

Objective

Miscue analysis was required for our enterprise client providing educational services in US. They required a custom solution built for the teachers to identify errors made while reading by the students and streamline assessment process in a more meaningful way. The solution should adhere to Lexis framework for identifying graphophonetic errors, syntactic errors and semantic errors. The mobile solution should help the students to learn the language from inside out through pervasive re-ordering and restructuring. Apart from being scalable, the solution should provide detailed analysis including miscues, accuracy, correct words per minute, and should be mobile friendly.

Challenges

- › Understanding Lexis & Semantics framework
- › Standardizing the assessment process
- › Identifying & marking miscue errors
- › Lack of student engagement with complex workflows

Approach

Rishabh Software's team developed the customized miscue analysis mobile solution using Titanium cross platform application development to support iOS & Android.

The development focus was emphasized on implementing Lexis framework to identify student skill deficits patterns and streamline the assessment process with required inputs from tutors. Additional features like marking errors, voice recording, visual capture & annotations and adding custom texts were delivered in the mobile solution. Content algorithms were developed to match the verbal & visual content in real-time for students, which provided new insights for teachers and a new basis for developmental and remedial instructions.

The custom miscue analysis solution helped the teachers to identify an appropriate reading level for the student, revealed how well a student is self-monitoring their reading and identifying which reading strategies a student is using (or not using). The solution was built in a planned phase manner, starting with a "Proof of Concept" to test and validate market acceptance of the proposed concept to developing the final mobile ready solution.

Business Benefits

- › Identify appropriate reading level of students
- › Standardized assessment process with detailed reports
- › Better user experience with minimalistic workflows & navigation structure
- › Scalable solution to cater large group of students



Industry Segment

Education

Customer Profile

An educational institute helping students to improve vocabulary skills, operating across multiple states in US

Technology and Tools

- › Titanium
- › MySQL
- › HTML5
- › CSS
- › JavaScript

About Rishabh Software

Rishabh Software is a CMMI 3, ISO9001, ISO 27001, Microsoft Gold Partner & Oracle Gold Partner providing application development services & solutions to mid-sized enterprises globally through our offices in the US, UK and India. We leverage the latest technology stacks in Cloud, Mobile, Business Intelligence and other Enterprise technologies helping clients to get the best value of their IT budget. With our team of 250+ application developers, we have implemented 1000+ successful projects across 24 countries. We work on .NET, Java, PHP, iOS, Android, Oracle, IBM and Open Source technologies.



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