

Context aware analytics and NLP-based solution that enhances student learning effectiveness and experience using iFusion™ platform

Client Need

Client, a K-12 education service provider, wanted to offer a unique and differentiated learning experience to students through personalized and context intelligent ecosystem on the mobile.

What we Did

Leveraging iFusion™ solution accelerators and our expertise in data and analytics engineering, we built a context aware analytics e-learning solution.

→ Used Natural Language Processing, complex ontologies and event processing for

Content collection Atomization Semantic repositories Rich annotations

→ Developed usage analytics for real time context discovery and application, and built intelligence to learn and refine based on usage and data

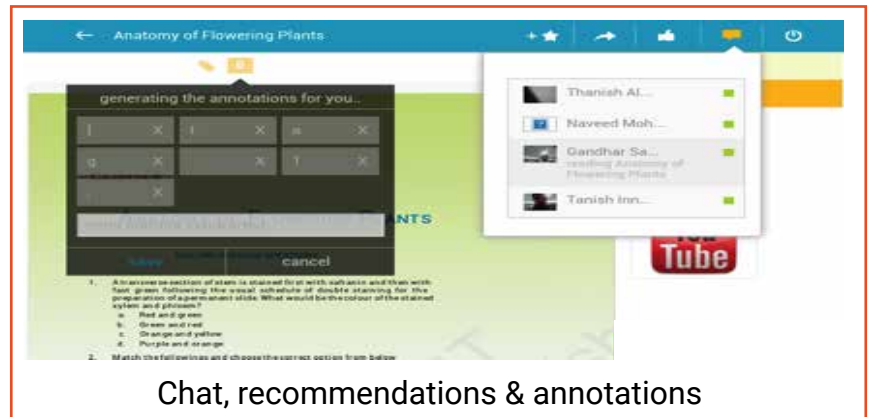
Solution Highlights

- A holistic personalized learning goals management program
- Peer to peer/ parent/ teacher/ experts mentoring
- Assessments - Atomized, Embedded into the content, Contextual
- Video collaboration among the stakeholders

→ Used NLP for auto annotations and modeled recommendation algorithms using non-supervised machine learning techniques



→ Engineered user experience for mobile environment by enabling portability, device middleware, connectivity, data usage and rich usage analytics



Chat, recommendations & annotations

What the Client Gained

- Compelling content visualization and augmentation
- Real time collaboration of stakeholders
- Data usage optimization

- Hardware optimization including battery drain
- Application portability across mobile platforms



Learning Objects

Technologies

- Wrapper layer – learning, data processing, reasoning and ontologies
- HTML5, PhoneGap, Node JS and Java

- Apache Solr and Nutch
- Apache Mahout for machine learning

About Innominds

Innominds is an AI-first, platform-led digital transformation and full cycle product engineering services company headquartered in San Jose, CA. Innominds powers the Digital Next initiatives of global enterprises, software product companies, OEMs and ODMs with integrated expertise in devices and embedded engineering, software apps and product engineering, analytics and data engineering, quality engineering, and cloud and devops, security. It works with ISVs to build next-generation products, SaaSify, transform total experience, and add cognitive analytics to applications.