

## Beyond Canvas: University Enhances Learning with a Custom LMS for Advanced **Assessment and Attendance**

landscape, traditional assessment and attendance methods can hinder progress. This case study explores how Invimatic collaborated with a large university In the USA to transform its learning environment. The University sought a more comprehensive solution than their existing Canvas LMS could offer for managing digital assessments and attendance tracking.

In today's data-driven educational



**Company Overview** 

A prestigious university from the USA dedicated to fostering academic excellence and student success. They offer a diverse range of programs and serve a large student body. The University prioritizes innovative teaching methods and seeks to leverage technology to enhance the learning experience.



## Limited Assessment Capabilities: Canvas

Challenges

- offered basic functionalities for online quizzes, but The University required a wider range of digital assessment tools for various learning objectives. Inflexible Attendance Tracking: The
- university's existing system relied on student ID card swipes, limiting options for remote learning scenarios and lacking real-time data. • Restricted Data Insights: Canvas provided
- basic analytics, but The University desired more granular data to identify struggling students and personalize learning experiences effectively.

# Management System (LMS) that built upon the foundation of Canvas. This

Solution Offered

Invimatic partnered with The University to develop a custom Learning

enhanced LMS offered:



#### Integration with a wider range of assessment tools, allowing

instructors to create and grade

essays, simulations, and other

complex assessments electronically.



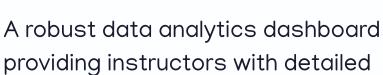
#### tracking methods to The University's specific needs. This could include

integrating with existing security

systems or implementing features like geolocation verification for remote learning.

Seamless Canvas Integration

The custom LMS seamlessly



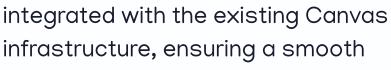
Dashboard

#### insights into student performance. This allowed for early identification of at-risk students and informed

**Enhanced Data Analytics** 

personalized learning approaches. **Technology Implementation** 

environment.



### transition for faculty and students already familiar with the Canvas

interface.

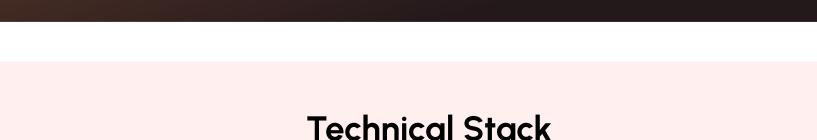
### • API Integration: The custom LMS utilized Canvas's API to access and manage user data, courses, and content within the familiar Canvas

The custom LMS leveraged Canvas as the core platform and extended its

functionalities through integrations and custom development:

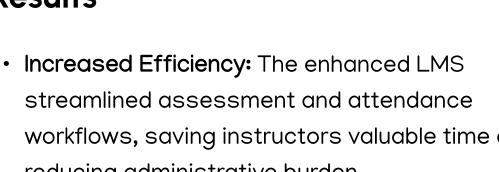
 Custom Development: Additional functionalities like advanced assessment tools, customizable attendance tracking methods, and a

comprehensive data analytics dashboard were developed using Node.js.





L Server



personalize learning for each student and identify at-risk students early on. of assessment tools and mobile access foster

 Reduced Paper Waste: Eliminating paperbased assessments and attendance logs contributes to a more sustainable learning environment.





workflows, saving instructors valuable time and reducing administrative burden. • Data-Driven Instruction: Real-time and detailed performance data empowers instructors to

• Improved Student Engagement: A wider range a more engaging learning experience.



This case study demonstrates the power of custom LMS solutions for institutions seeking to go beyond the limitations of existing platforms. By building upon the foundation of Canvas, Invimatic empowered The University to create a more efficient,

data-driven, and engaging learning environment for its students and faculty.



sales@invimatic.com