

DIGIEDUHACK SOLUTION CANVAS

Title of the solution:

GradeUp AI

Challenge addressed:

28H - Transforming Education

Team name:

Ideation X

Challenge category:

Emerging Technologies for Education

Solution description

Solution Description:

GradeUpAI is a comprehensive artificial intelligence solution designed to transform the assessment and feedback experience in university settings. Its key elements include integration with the Blackboard platform, an automated rubric-based assessment process, detailed feedback for students, 24/7 communication and tutoring, and adaptability to different file types and courses. The main objective is to improve equity in assessment, promote active learning, and provide meaningful feedback for the development of critical skills.

Implementation Plan:

Key Overall Milestones:
 Integration with Blackboard: Interface development and connectivity testing.
 AI Training: Utilization of rubrics and reference data.
 Pilot Implementation: Testing in a specific course to validate effectiveness.
 Full Deployment: Scaling for implementation across all courses.

Resources Required:

Software developers for integration.
 Education experts for rubric design and result evaluation.
 Technical support and personnel for 24/7 communication and tutoring.

Foreseen Barriers:

Resistance to change from both teachers and students.
 Possible technical issues during integration.
 Need to adapt the solution to different academic disciplines.

Final Product/Service/Tool/Activity:

The final solution is GradeUpAI, an artificial intelligence-based assessment tool that offers objective and personalized evaluation, detailed feedback for students, and communication and tutoring options for continuous learning.

Enhancement of Digital Education:

GradeUpAI enhances digital education by providing fair and objective assessment, facilitating meaningful feedback for the development of key skills. Integration with Blackboard enables a smooth user experience and increased interaction between teachers and students, fostering a more collaborative and efficient learning environment.

Measurement of Success:

Success will be measured by:
 Improvement in academic results and student engagement.
 Efficiency in grading and feedback by teachers.
 Acceptance and satisfaction of teachers and students with the solution.

Benefits to the Challenge Owner:

The challenge owner, the university, will benefit from:
 Improvement in the quality of assessment and feedback.
 Greater efficiency in the assessment process.
 Potential improvement in student retention due to an enhanced learning experience.

Context

What problem are you facing?

The problem we encounter in the field of university assessment is the inherent subjectivity in the grading process. Current evaluations heavily rely on the personal interpretation of the teacher, introducing biases and variability in the results. Even when rubrics are used, subjectivity persists and can impact equal opportunities, academic development, and the quality of education.

What challenge are you addressing?

The challenge we are tackling is the need to enhance objectivity and fairness in university assessment. Our solution, GradeUpAI, aims to transform this process by implementing artificial intelligence in assessment and feedback. By providing automated assessment based on predefined rubrics and detailed feedback, our goal is to overcome subjectivity, promote equal opportunities, and elevate the quality of education. We are addressing the challenge of making assessment more fair, transparent, and focused on developing key skills to improve the academic experience for students.

Target group

Target Group:

The primary target group of our solution, GradeUpAI, includes university students and teachers involved in academic assessment processes. It also encompasses administrators and educational staff overseeing and managing these processes.

How It Will Impact Students:

Equity in Assessment: GradeUpAI ensures a more objective and fair assessment by eliminating subjectivity in grading. All students will receive an evaluation based on predefined criteria, reducing the possibility of biases.
Meaningful Feedback: Students will receive detailed feedback not only on the final outcome but also on the developmental process. This will allow them to identify areas for improvement and promote more active and growth-oriented learning.
Access to Tutoring and Assistance: The option of 24/7 communication and tutoring will provide students with an additional resource to address doubts and enhance their understanding of the material, facilitating continuous learning.
Increased Study Flexibility: With the option to summarize classes and download study materials, students can adapt to their own learning pace and access content even if they cannot attend in-person classes.

How It Will Impact Teachers:

Efficiency in Assessment: GradeUpAI automates the grading process, allowing teachers to save time on correction and focus on direct interaction with students.
Consistent Feedback: The solution provides consistent feedback based on predefined rubrics, ensuring a coherent and transparent assessment.
Improved Communication: The option of real-time communication facilitates interaction between teachers and students, fostering a collaborative and supportive environment.

How It Will Impact Administrators and Educational Staff:

Efficiency in Management: GradeUpAI can streamline the management of assessment processes at the institutional level, improving efficiency in administering large-scale evaluations.
Analytical Data: The solution can provide analytical data on student performance, trends, and areas of improvement, which can inform institutional-level decisions.

Impact

Solution Impact:

The impact of GradeUpAI can be measured through various key indicators that reflect improvements in the quality of education and efficiency in assessment processes. Some key aspects that can indicate positive impact include:

Equity in Assessment: Reduction of disparities in grades among students, indicated by lower variability in results.
Skills Development: Improvement in academic performance and critical skills development, reflected in assessment results and provided feedback.
Efficiency in Grading: Decrease in the time spent by teachers on exam grading, allowing them to focus on more interactive and formative activities.
Student Engagement: Increase in student participation and interaction, indicated by regular use of tutoring options and real-time communication.
User Satisfaction: Positive perception of GradeUpAI's effectiveness and utility by teachers and students, measurable through surveys and direct feedback.

How to Measure Impact:

Data Analysis: Utilize analytical data to assess academic performance over time, identifying trends and patterns.
Satisfaction Surveys: Conduct periodic surveys to gather opinions from teachers and students about the effectiveness of GradeUpAI and its contribution to the educational process.
Comparison of Results: Compare assessment results before and after the implementation of GradeUpAI to evaluate improvements in equity and quality of grades.
Usage Indicators: Monitor the frequency and type of interactions on the platform, such as the number of tutoring requests and the utilization of communication tools.
Academic Performance: Evaluate overall student performance and retention rates to determine if GradeUpAI contributes to greater academic success.

Describe it in a tweet

GradeUpAI: More than a grade, a fair educational experience. Smart feedback, constant connectivity. Elevate your education, elevate your future!

Innovativeness

GradeUpAI stands out by integrating directly with Blackboard, providing detailed feedback, 24/7 communication, and adapting to various types of courses. Its focus on skill development and inspiration from successful solutions make this tool a unique and innovative choice in the educational assessment market.

Transferability

GradeUpAI can be applied to other educational contexts and beyond. Some adaptations include:

Different Educational Platforms: Integration with educational platforms other than Blackboard is possible to extend the accessibility and utility of GradeUpAI.
Corporate Training Environments: Detailed feedback and the focus on skill development are transferable to corporate training contexts, enhancing assessment and professional growth.
Online Learning Platforms: It can be applied to online education environments, providing a comprehensive solution for assessment and feedback in virtual courses.
Technical or Training Courses: The ability to upload and analyze specific files can be useful in technical or training contexts, such as programming or design courses.
Personnel Selection Processes: Adaptability and objectivity in assessment could be applied to personnel selection processes, improving efficiency and equity in evaluations.
Collaboration and Communication Platforms: The functionality of constant communication and real-time assistance could be leveraged in business collaboration platforms.
Project or Research Evaluation: The ability to assess various file types and provide detailed feedback can extend to the evaluation of research projects or creative works.
 GradeUpAI, with specific adjustments, can be tailored to a variety of educational and professional contexts where objective assessment and meaningful feedback are essential.

Sustainability

Implementation Plan:

In the short term, the plan focuses on integrating GradeUpAI with the Blackboard platform and conducting initial tests in specific courses. The goal is to establish a seamless connection and validate functionality through a controlled pilot.

As we move into the medium term, attention is centered on continuous refinement. Feedback from teachers and students is gathered, fueling iterative improvements in the interface and functionalities. During this period, the gradual expansion of the solution to more courses is planned, adapting to the specific needs of each context.

In the medium to long term, implementation is carried out comprehensively throughout the educational institution. Constant monitoring is established to assess performance and user satisfaction, with ongoing training provided to ensure effective and efficient use of GradeUpAI.

Medium and Long-Term Vision:

Looking ahead, the strategy is directed towards the continuous optimization of the platform. This involves ongoing technological and pedagogical improvements to keep GradeUpAI up-to-date and in line with best practices.

Additionally, strategic collaborations with other educational platforms are explored to broaden the accessibility and impact of GradeUpAI. Adaptation to new contexts, such as business environments and other educational sectors, is considered to maximize the solution's utility.

The research and development component remains a priority, aiming to explore and apply new technologies and methodologies. This approach ensures that GradeUpAI not only adapts but also stays ahead of the changing needs of learning and assessment over time.

Team work

Our team is perfect for this project, thanks to the combination of complementary skills and experiences from each member. Franck, with his background in industrial design and engineering, brings creativity and technical skills. Jozef, a disciplined business student, contributes structure and efficient management. Alexis, a civil engineer, handles tasks and activities with responsibility. The diversity of our skills and perspectives has allowed us to refine the idea and ensure a comprehensive approach.

We have demonstrated our ability to work well as a team through our effective collaboration. Open communication and respect for individual contributions have been key in our past projects. Each member brings unique strengths, contributing to the success of our initiatives.

Looking ahead, we are fully committed to continuing to work as a team. Our ability to develop and contribute new ideas with a positive impact on society is a strong motivator. We believe in the synergy of our skills and our capacity to overcome challenges together. Past successful experiences and our willingness to adapt and learn ensure that we will continue to collaborate effectively on future projects.