

Automated Student Grade Calculation Using RPA

This presentation explores the implementation of Robotic Process Automation (RPA) to streamline student grade calculation in educational institutions. We'll examine the challenges of manual grading, delve into the benefits of automation, and showcase a practical solution using UiPath.

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Challenges of Manual Grading

Time-Consuming

Manually grading large numbers of students can be incredibly time-consuming, especially for institutions with large student populations.

Prone to Errors

Human error is a significant concern, leading to inaccurate grades and potential student dissatisfaction.

Lack of Consistency

Manual grading can result in inconsistent application of grading criteria, leading to fairness issues.



Benefits of RPA for Grading

1 Efficiency

RPA bots can process student data and calculate grades at a much faster rate than humans, freeing up valuable time for instructors.

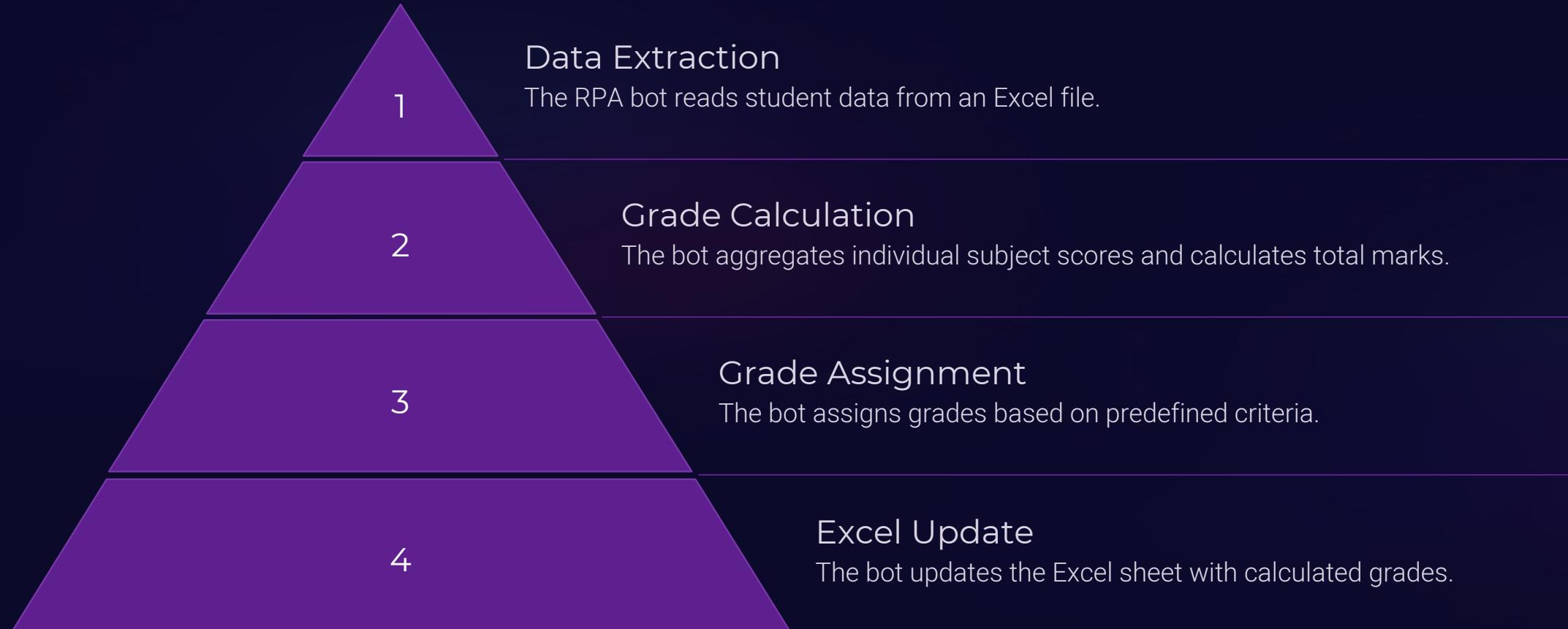
Accuracy

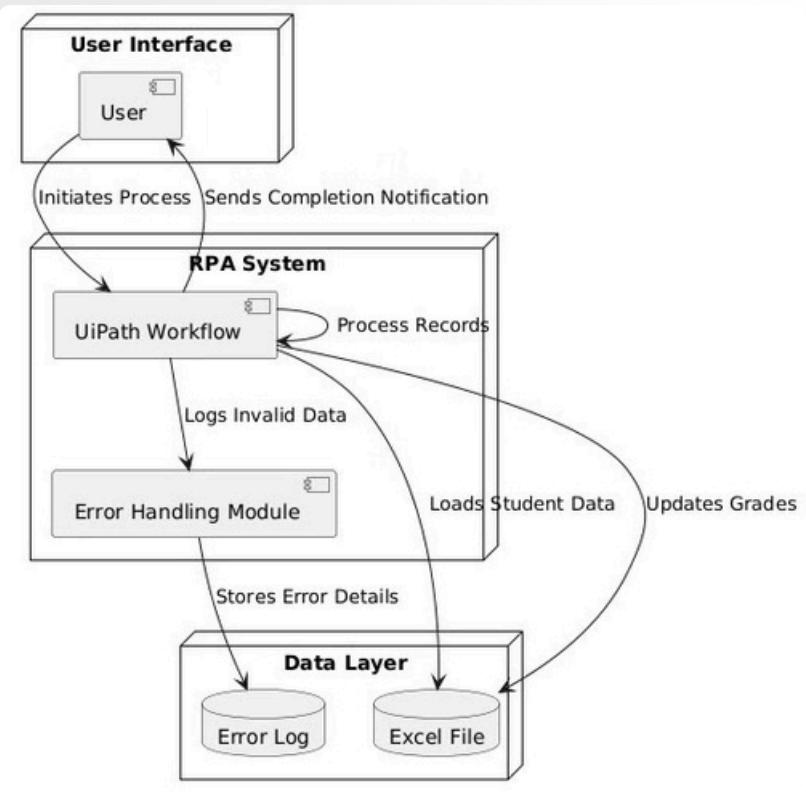
Automated systems eliminate human error, ensuring consistent and accurate grade calculations.

3 Scalability

RPA can easily handle large datasets, ensuring that the system can scale with the growth of the institution.

Proposed RPA Solution





System Architecture Diagram

The system architecture consists of an RPA bot that interacts with an Excel file containing student data. The bot utilizes a grade calculation engine and a grade assignment module to process the data and assign grades based on predefined criteria.



System Requirements

UiPath

The RPA bot is built using UiPath.

Excel

Student data is stored and processed in an Excel file.

Grading Criteria

Predefined criteria are used to assign grades based on calculated marks.

L6

X ✓ fx

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Student ID	Student N	Score1	Score2	Score3	FinalGrade								
2	98	sai	100	98	97	A								
3	100	nidarshan	50	90	100	B								
4	101	neela	100	95	98	A								
5	102	krishna	70	80	90	B								
6	103	ram	50	40	55	No Grade								
7	104	sita	60	70	80	C								
8	105	radha	90	70	80	B								
9	106	leelaa	49	80	100	No Grade								
10	107	diva	70	80	100	B								



Output Image

The RPA bot outputs a modified Excel sheet containing updated student grades, based on calculated total marks and predefined grade criteria.



Conclusion

Efficiency

RPA significantly improves the efficiency of student grade calculation.



Accuracy

RPA eliminates human error and ensures accurate grade calculations.



Scalability

RPA can handle large datasets, ensuring scalability for growing institutions.

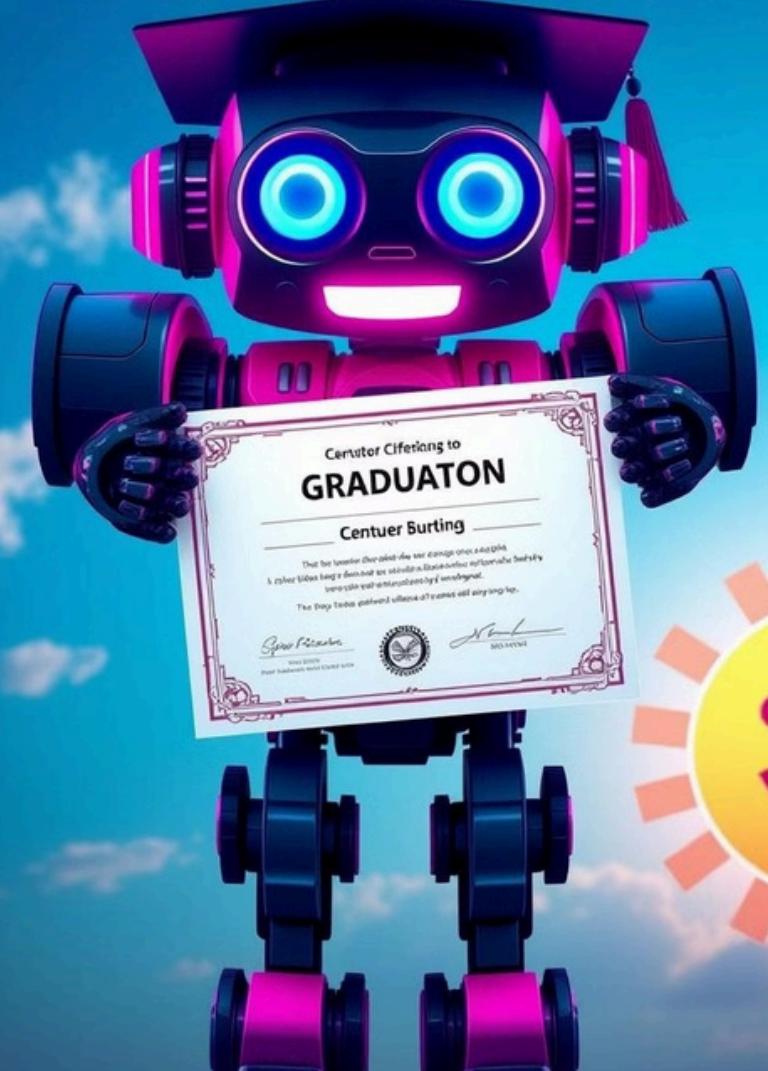
Future Enhancements

We are exploring additional features to enhance the RPA grading system.

Integration with learning management systems (LMS) is a key area for improvement. This integration would allow seamless data transfer between the LMS and the RPA bot, streamlining the grading process.

Furthermore, we aim to incorporate adaptive learning functionalities. The RPA bot could analyze student performance data and suggest personalized learning resources to improve their understanding, sending mail, generate mark sheet, bar, pi chart to analysis.

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Thank You

Thank you for your time and consideration. We look forward to working with you. We are confident that our proposed RPA solution will bring numerous benefits to your institution.

