User Documentation

for

RelativeEase:

A Relative Grading Software for Professors

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CSPE41 project, Spring 2024
National Institute of Technology, Tiruchirappalli

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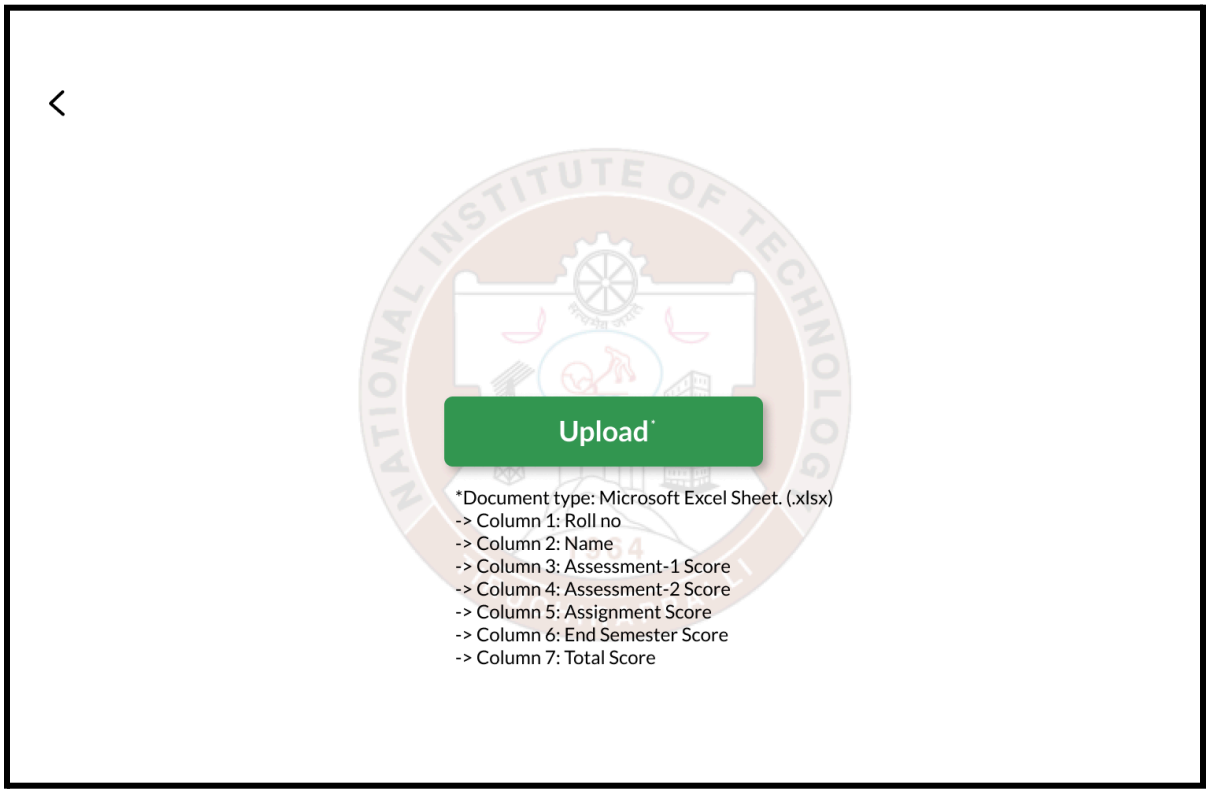
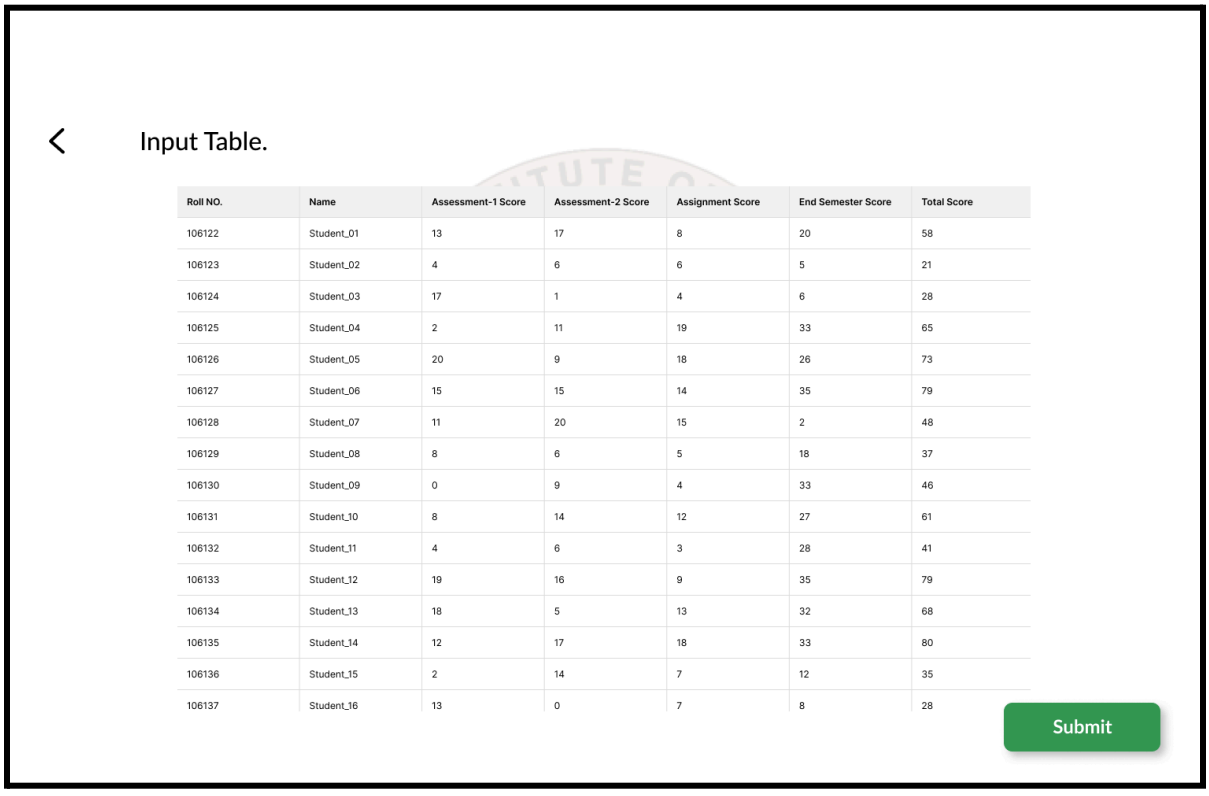
User Manual

RelativeEase is an easy-to-use software for grading, just as the name suggests. With the click of a few buttons, you can grade your students on a curve and generate reports.
For any issues, concerns or feedback, contact us at **relativeease2024@gmail.com** .

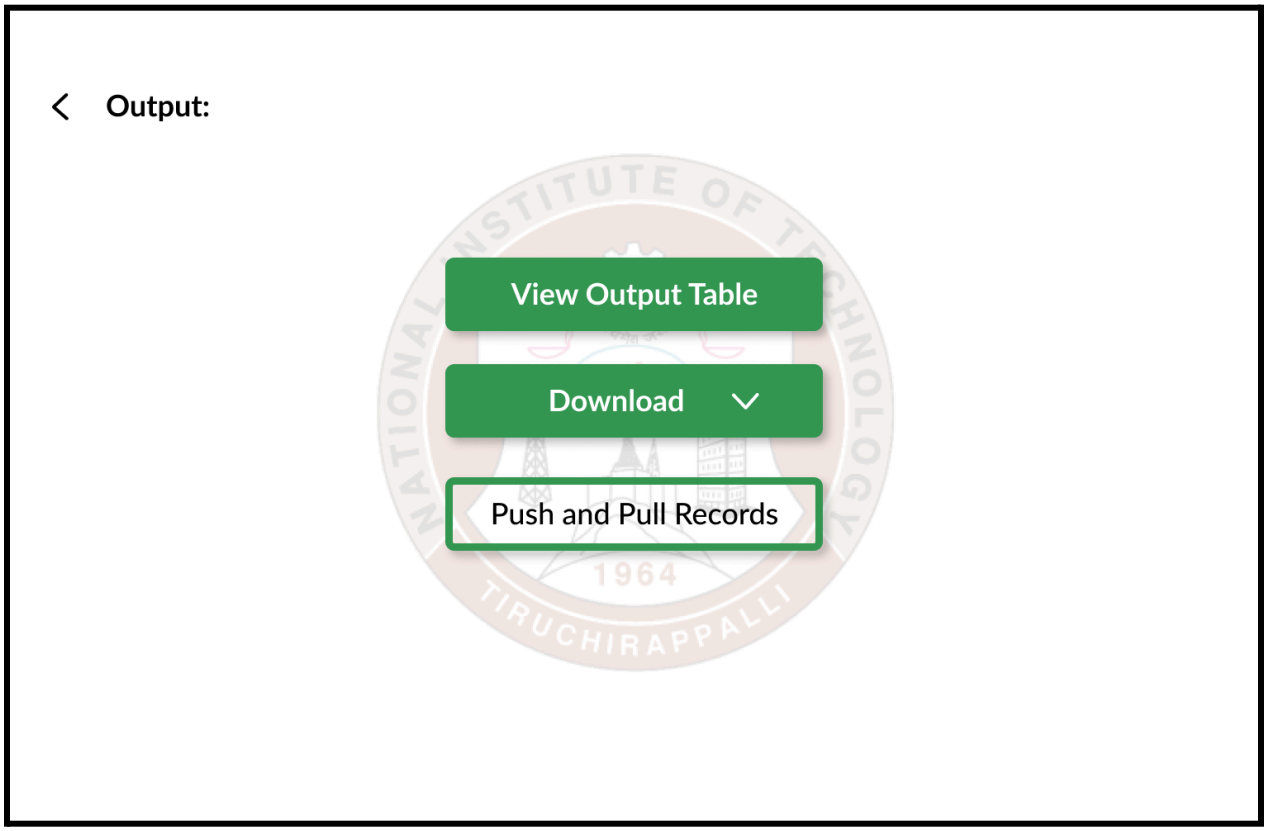
The welcome screen should dissolve in a few seconds, opening an ‘Upload Document’ page.
Select the .xlsx file from your system navigator.



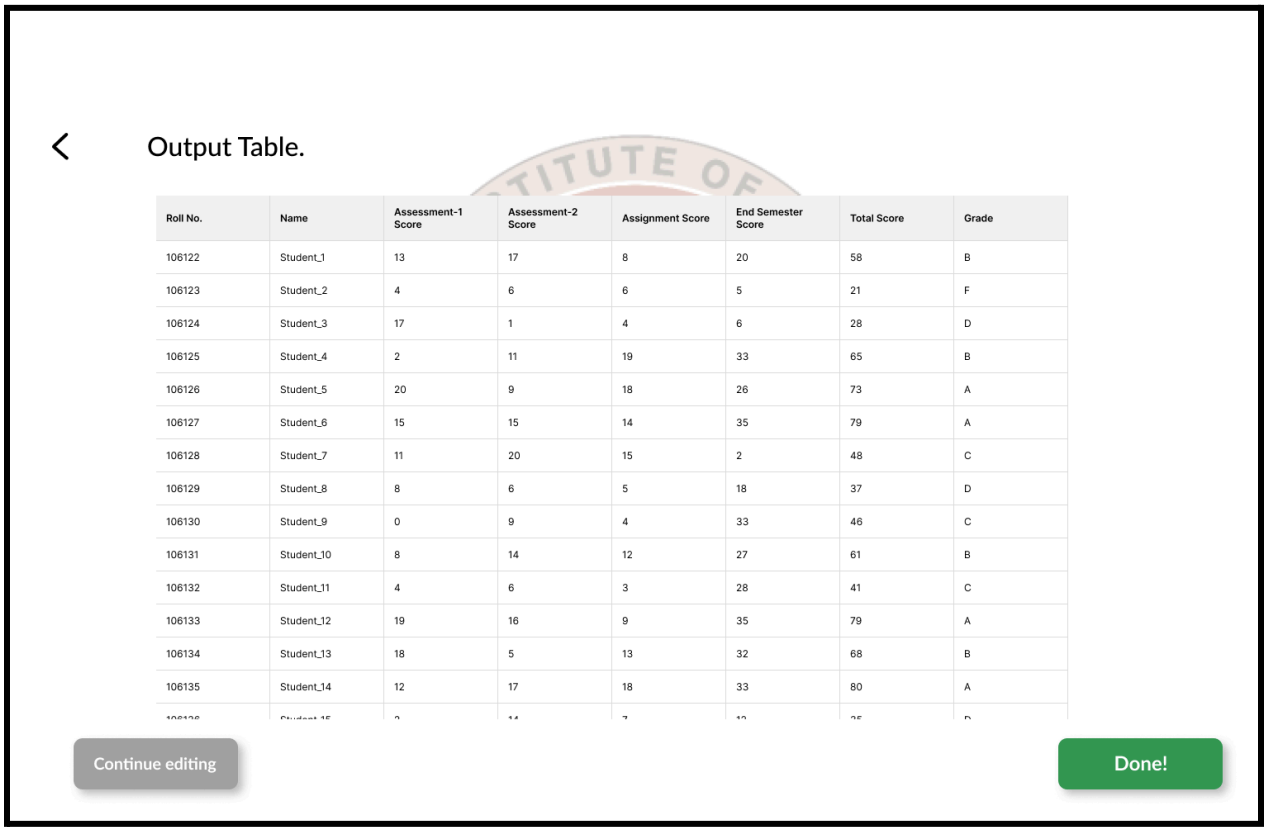


Verify your input table once and click Submit to upload it.

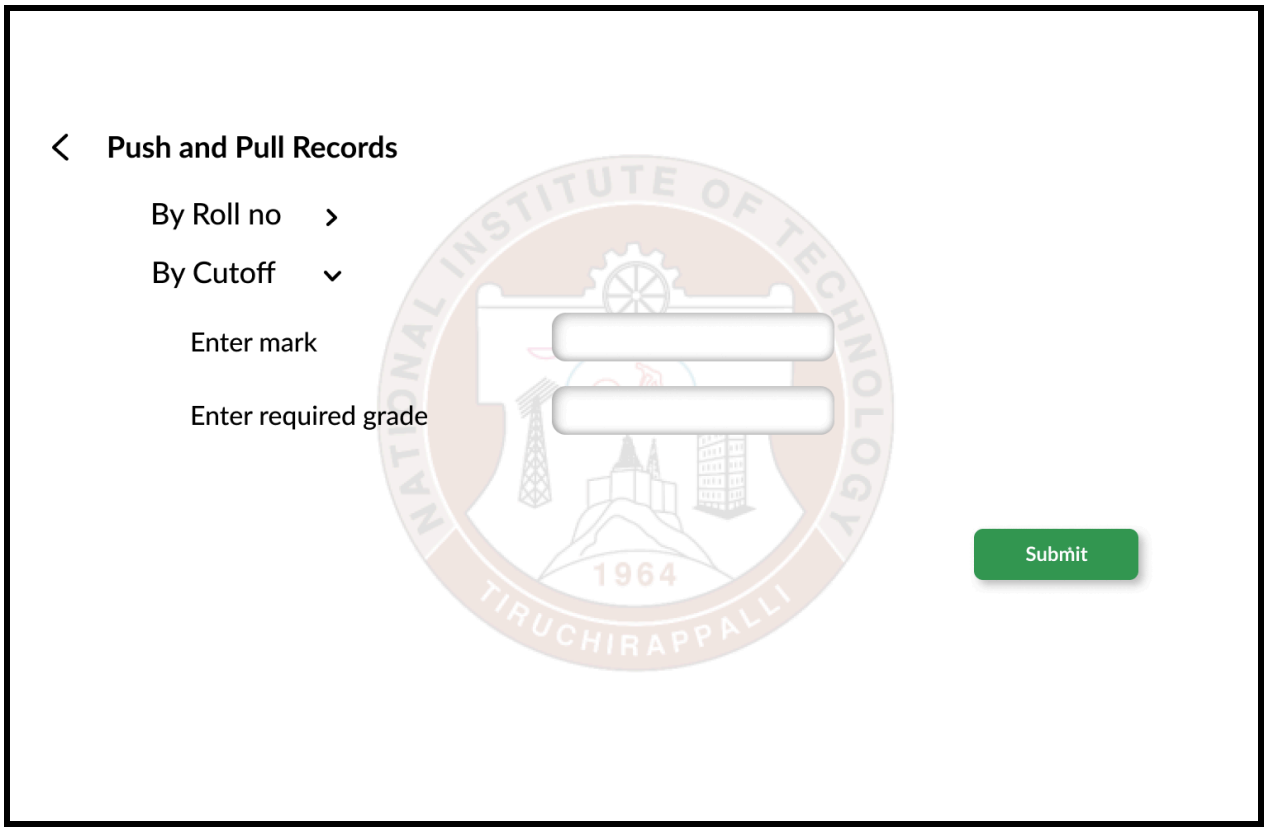
Next, choose View Output Table to view it, Download to directly download if no changes are required, or Push and Pull Records if you want to make changes.

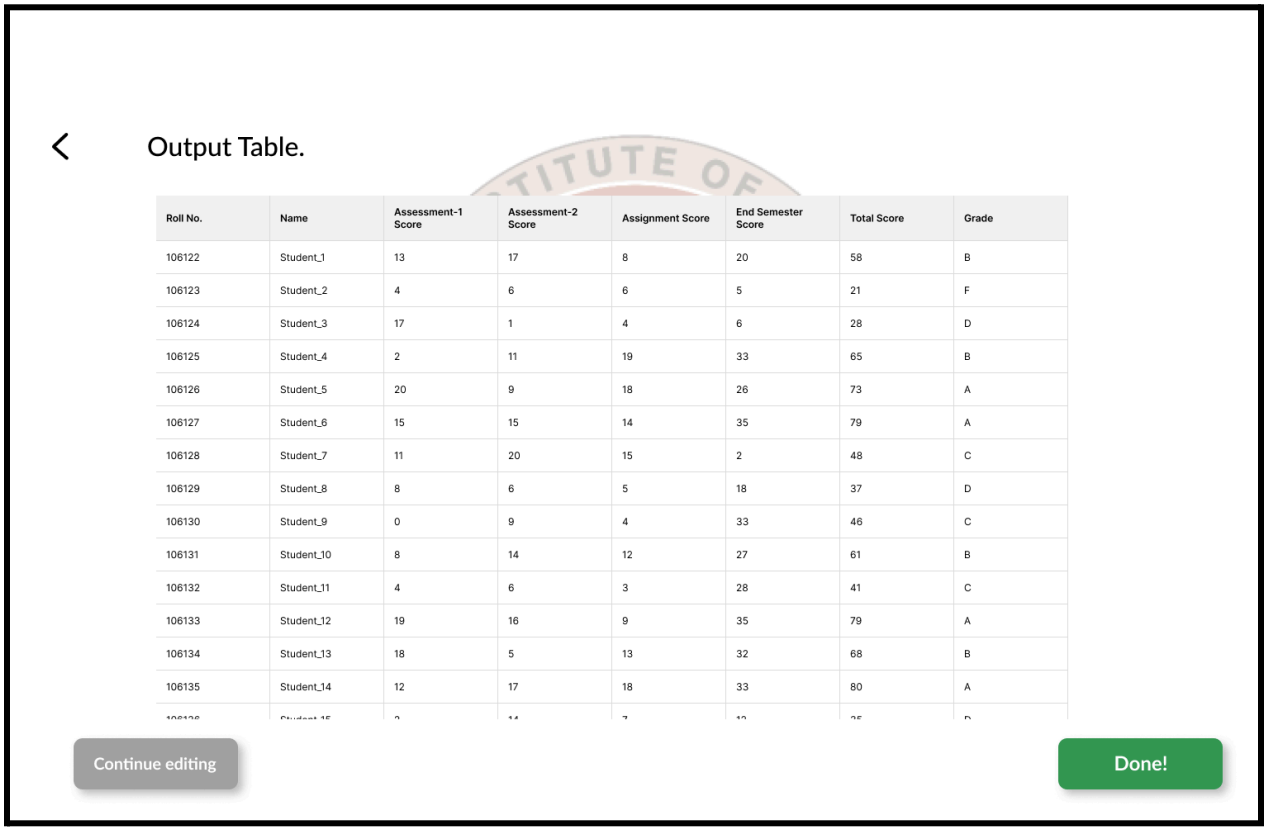


Select the cutoff mark where you want to move the grade barrier.



Roll No.	Name	Assessment-1 Score	Assessment-2 Score	Assignment Score	End Semester Score	Total Score	Grade
106122	Student_1	13	17	8	20	58	B
106123	Student_2	4	6	6	5	21	F
106124	Student_3	17	1	4	6	28	D
106125	Student_4	2	11	19	33	65	B
106126	Student_5	20	9	18	26	73	A
106127	Student_6	15	15	14	35	79	A
106128	Student_7	11	20	15	2	48	C
106129	Student_8	8	6	5	18	37	D
106130	Student_9	0	9	4	33	46	C
106131	Student_10	8	14	12	27	61	B
106132	Student_11	4	6	3	28	41	C
106133	Student_12	19	16	9	35	79	A
106134	Student_13	18	5	13	32	68	B
106135	Student_14	12	17	18	33	80	A





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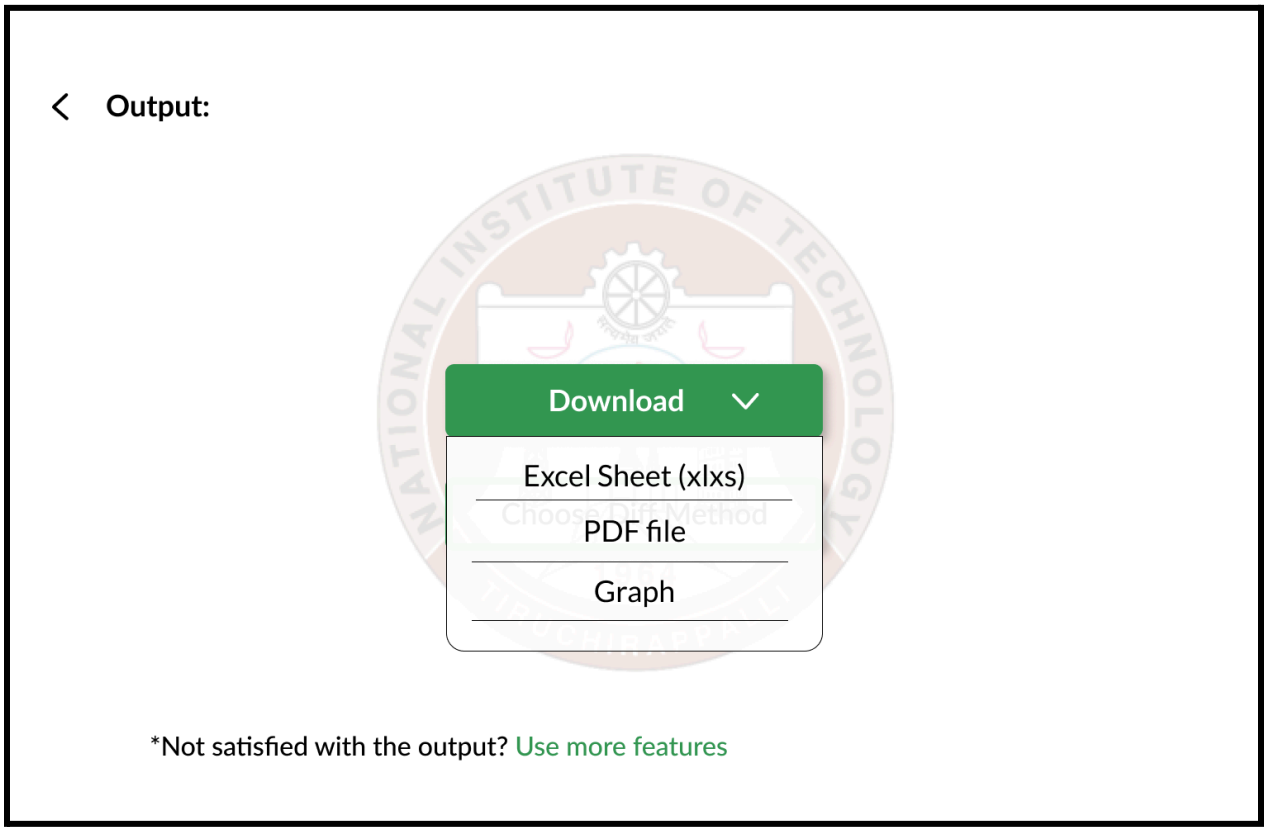
106135	Student_14	12	17	18	33	80	A

When you are happy with the grading, click Done.

Download your report in the desired format.



Conclusions and Future Scope

This project set out to be a solution to the time-taking, monotonous job of grading students. It is not currently a perfect software, nor does it cover all possible situations the user might want to invoke.

In view of this, however, we have made the push/pull section as user-friendly and customisable as possible, so that it can still give the desired output while maintaining its simplistic nature.

The software is easy to understand, navigate, and customize.

This software has been developed over the course of 10 weeks, and currently includes not all, but most of the previously listed features. Our intention is to continue working on this to release a fully-functioning software with additional features, so it can be widely used across several universities. A few of these features include:

1. Working with universities: This will allow the software to be used easily with university login and will already contain required data for the grading system. It will also allow easy submission from professors to the administration and will be able to hold records for all courses, easing the work of both the professor as well as the office.
2. A more interactive UI: This will allow even professors with extremely minimal computer use to easily use the software.
3. Graphs showing statistics of the grades assigned.

If you have any issues, ideas, or would like to contribute, you can contact us at **relativeease2024@gmail.com** .

Contributions

- Arshad Ahmed (106122016)
    - UML Diagrams

- Harshel Swain (106121049)
    - SRS document
    - User Interface Design
    - **Front-end Coding**

- Sanjana Gummuluru (106122106)
    - UML Diagrams
    - SRS Document
    - **Back-end Coding**
    - Software Documentation
    - User Documentation

Key Takeaways

We learnt a lot over the course of this project. Not just from a technical perspective; we also learnt soft skills that will stay with us throughout the course of our careers.

1. Software Engineering Concepts including but not limited to Requirements Engineering, Software Development Life Cycles, Software Design, UML Diagrams, Quality Assurance, Documentation, Testing and Risk Management.
2. Programming Concepts including but not limited to Object Oriented Programming, Implementation Issues, Databases, Connection and APIs, Web Development and Frameworks.
3. Social Concepts including but not limited to Time Management, Team Dynamics, and Collaboration.
4. Other takeaways include:
    a. Learning to accept and apply constructive criticism
    b. Learning to listen to others but take charge when required
    c. Learning to prioritize work and meetings, but balance other courses and projects
    d. Asking for feedback and applying the same
    e. Learn how the software development cycle works along with the extensive documentation

Acknowledgements

We would like to express our sincere gratitude to Dr. Oswald C. His initial idea, along with his constant guidance and mentorship throughout the course of this project made it possible for us to build it with no major issues or hardships.

The professors of NIT Tiruchirappalli, who helped us with their individual perspectives on how this project could be built in order to help them.

Our classmates, who did not hesitate to help us even though they had their hands full with their own projects.

Finally, the members of our team, without whom this project would not be possible.