**4. Design and Implementation of a Web-Based Automated Thesis Defense Grading System - [Bachelor]**

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The thesis defense is a pivotal culmination of a student's academic journey. However, the administrative process surrounding it is often manual, involving paper-based forms, fragmented communication (email, paper), and manual calculation of final grades. This leads to an inconsistent experience for students, committee members, and reviewers. There is a clear need for a centralized, transparent, and efficient system to standardize and automate the thesis defense process.

This thesis aims to develop a solution that assists thesis committees and reviewers in efficiently defining a student's final grade. The system will formalize the multi-faceted evaluation process by integrating the reviewer's detailed assessment of content, complexity, and appearance with the committee's grade for the presentation and defense. A core challenge it will address is managing scenarios where committee members, including the chair, might have disagreements, either with the reviewer's initial grades or amongst themselves. The system will provide a structured platform to propose, justify, and resolve conflicts to reach a final, consensus-based grade in a transparent and auditable manner.