



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

FACULTY OF COMPUTING

UNIVERSITI TEKNOLOGI MALAYSIA

Bachelor of Computer Science (Data Engineering) - SECPH

SECP3106-02 APPLICATION DEVELOPMENT (WBL)

ASSIGNMENT 2

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1.0 Introduction

In today's compliance-focused business environment, audit accuracy and efficiency are critical. Our project, SmartComply, is designed to simplify audit form creation, submission, and verification. However, the current system lacks an automated method for evaluating form responses. This proposal introduces a new **Intelligent Metric Scoring Module**, aimed at enhancing the audit process by enabling automated, data-driven evaluation of form submissions.

2.0 Detailed Description

2.1 Purpose

The purpose of the Intelligent Scoring Module is to automate the assessment of user responses in audit forms. By assigning predefined scores to each option in form elements such as checkboxes, dropdowns, and radio buttons, the system can calculate a total score upon submission. This score reflects the level of compliance or performance of the user based on their responses.

2.2 Functionality

1. Admin can assign scores to each selectable option while designing the form.
2. When users fill in the form, the system captures their selected options.
3. Upon submission, the module calculates the total score by summing up the predefined scores of the selected options.
4. The calculated score is stored in the database and linked to the form submission.
5. The score can later be used to determine pass/fail status, generate reports, or provide feedback to users.

2.3 Integration with the Existing Project

The module is integrated within the form submission workflow of SmartComply:

- The admin set scores through the existing form creation interface.
- The scoring logic is executed automatically during the form submission process in the `SubmitConfirmed()` method.
- The total score is saved in the `FormResponder` table, just like other audit-related information.

2.4 Potential Benefits

1. **Standardization:**
 - a. Ensures all form evaluations follow a consistent scoring standard.
2. **Efficiency:**
 - a. Saves time for users by summarizing form performance in automation flow.
3. **Actionable Insights:**
 - a. Enables score-based reporting and future integration with dashboards or analytics tools.
4. **Scalability:**
 - a. Supports large-scale audit reviews across multiple branches and teams.

3.0 Importance of the Proposed Module

3.1 Addresses Current Gaps or Limitations

Currently, form submissions in SmartComply do not include automated scoring, leaving the evaluation process manual and without references or standard. This leads to inefficiencies and inconsistencies, especially in large-scale audits. The Intelligent Scoring Module fills this gap by providing automated, quantifiable evaluation, improving both accuracy and reliability.

3.2 Value to Users or Stakeholders

- **Auditors and Managers:**
 - Can rapidly assess compliance levels using scores.
- **Users**
 - Receive clear feedback on their performance or audit outcomes.
- **Admin:**
 - Gain access to richer data for decision-making and compliance tracking.

Overall, the module promotes trust and transparency, aligning with the goals of a digital audit platform like SmartComply.