AI Scorecard Generator – Enhancement Specification v3

# Section A: Purpose

This specification defines enhancements and fixes to the existing AI Scorecard Generator module in FinScoreIQPro following the implementation of Phase 1 and Phase 2. The aim is to deliver a clean, explainable, and effective credit scorecard tailored to user configurations and risk preferences.

# Section B: Summary of Fixes & Enhancements

1. Remove the 'Founded Year' field under Institution Setup (UI cleanup).

2. Fix the category weight allocation bug where total weight > 100%.

- Post AI-generation, run an automatic normalization routine to ensure total weight = 100%.

- Show an alert if category imbalance exceeds threshold (e.g., >10%).

# Section C: Redesigned Output Tabs

The AI-generated scorecard must now be structured into the following 4 clear tabs:

1. Category Summary

- Show each category and assigned weight (must sum to 100%).

2. Variable View

- For each category, list the included variables and their weights.

- Optionally allow editing of individual variable weights.

3. Score Band Configuration

- Show each variable’s score thresholds (bands), with assigned scores and labels.

- Provide a structured table view (e.g., Threshold | Score | Label | Description).

4. Scorecard Explainability Tab

- Explain AI rationale: why these variables/categories were included.

- Show how Risk Appetite, Target Approval Rate, Data Source Availability impacted the design.

- Include metadata (institution type, segment, product type, selected geographies).

- Use charts: Donut chart for category weights, heatmap for variable relevance.

# Section D: Efficiency & Effectiveness Matrix (New Tab)

Include a matrix that simulates scorecard performance to ensure business relevance:

- Expected Approval Rate (based on score bands).

- Default Risk per bucket (if mapped or simulated).

- Lift in approval efficiency vs traditional rule-based (if known).

- Output table layout:

| Score Band | Approval % | Default Risk % | Comments |  
 |------------|-------------|----------------|--------------------|  
 | A | 30% | 0.5% | Low-risk segment |  
 | B | 25% | 1.8% | Mid-risk borrowers |  
 | C | 20% | 4.0% | Moderate decline |  
 | D | 25% | 10%+ | Auto-decline zone |

# Section E: Post-Implementation Expectations

1. Final scorecard must clearly reflect all user configuration inputs.

2. Output must be auditable, explainable, and editable.

3. Weight logic must be validated to sum to 100%.

4. Scorecard Explainability + Efficiency Matrix must be included.