AI Scorecard Generator – Enhancement Specification v2

# Section A: Summary of Objectives

This document outlines the next phase of enhancements required in the AI Scorecard Generator module within FinScoreIQPro. The goal is to transition from a generic scorecard engine to a truly dynamic, AI-driven configuration that adapts scoring logic based on user inputs such as institution type, data availability, risk appetite, and geography.

# Section B: Phase 1 Implementation Scope – Must Deliver First

1. Integrate 'Final Preferences' inputs into AI scorecard logic:

- Risk Appetite: Affects scoring stringency.  
 - Target Approval Rate (%): Drives cutoff and bucket sizing.  
 - Primary Focus (Defaults vs Approvals): Shifts weight balancing.

2. Modify the AI scorecard engine to:

- Prune variables that originate from data sources marked as unavailable.  
 - Adjust weights, risk cutoffs, and score ranges based on all user inputs.  
 - Align score buckets (A/B/C/D) to match Target Approval and Risk Appetite.

3. Link data quality and availability inputs to variable-level logic.

4. Ensure user-generated scorecard is visibly different per configuration.

# Section C: Phase 2 Enhancement Scope – To Be Taken Up After Phase 1

1. Add an AI Rationale / Explainability Panel:

- Show logic behind variable inclusion.  
 - Display how Final Preferences influenced weights and thresholds.

2. Enable simulation of approval distribution vs target approval rate.

3. Allow export of final scorecard in Excel or PDF format.

4. (Optional) Add ML-based validation loop for simulated disbursement outcomes.

# Section D: Output Expectations (Post-Implementation)

1. Scorecard output must vary across different customer inputs.

2. Variable list and weights must reflect real-time configuration settings.

3. Buckets should dynamically adjust to meet Target Approval Rate.

4. Final scorecard screen must allow edits and display AI rationale.

# ✅ Final Note for Replit

You may implement Phase 1 and confirm with us before starting Phase 2.