

Formal Review Template

Requester Name: Team Checkmate

Reviewer Name: Leah Caia

Date of Review: 11/2/2025

Review Type (e.g., code, usability, design, other): Code (white box)

Scope:

Artifact Reviewed: Ruby method `import_students_from_csv` inside `app/models/semester.rb` (handling CSV import for students)

Review Objectives: Ensure method handles merged cells and duplicate rows in student CSVs. Evaluate readability, modularity, and edge case handling

Methodology:

Approach Taken (e.g., execute, inspect, observe): Inspect

Evaluation Criteria (e.g., expected behavior, best practices, heuristic evaluation): Best practices

Coverage / Limitations (e.g., test login only, ignore database integration): N/A

Findings

Strengths:

- Handles flexible column names and spacing, improving import reliability
- Correctly carries forward previous non-nil values for blank CSV cells
- Wraps all database operations in a single transaction for atomic imports

Issues / Defects:

Description of Issue	Severity (Low/Med/High)	Evidence / Example	Suggested Fix
Duplicate student rows cause redundant saves or multi-team links	Medium	Same email on multiple rows recreates student associations; no deduping logic	Track seen emails (<code>Set.new</code>) per import and skip or warn on duplicates

Complete rejection on single bad row	High	One invalid URL or email aborts the whole file	Log errors per row, continue import, and summarize results
Single long method reduces maintainability	Medium	150+ lines mixing validation, persistence, and parsing	Refactor into helpers: parse_headers, validate_row, persist_student