

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 |