YMCA of Metropolitan Los Angeles

Automating Executive Reporting in Microsoft Excel

FALL 2023 | BUSINESS / SYSTEMS ANALYSIS | 3 STUDENTS

Three senior Information Systems students worked as a faculty-supervised systems-analysis team with the YMCA of Metropolitan Los Angeles to examine automation of executive reporting using Microsoft Excel. The team gathered requirements, modeled system interactions and components, and developed an application concept and prototype for partner review.



YMCA executive reporting systems-analysis team

PROJECT OBJECTIVE

Develop a systems-analysis concept for automating executive reporting in Microsoft Excel, supported by requirements, use cases, system models, and a reviewable prototype.

STUDENT CONTRIBUTION

The team gathered user input, translated the findings into functional requirements and use cases, defined proposed system components, and refined the application concept through design iterations.

ARTIFACTS PRODUCED

- Proposed solution summary and requirements findings
- Use-case descriptions and diagram
- System-component definitions
- Iterative application design
- GUI storyboard/prototype and partner presentation

COMMUNITY VALUE

The YMCA received a structured, reviewable concept for considering executive-reporting automation, including documented needs and a prototype for feedback.

LEARNING VALUE

Students applied requirements analysis, use-case modeling, application design, prototyping, and client communication to a real reporting process.