Automating Data Collection for Occupational Therapy Accreditation Report

Henry Murray, Darren Patrick, Sirjan Kalakheti Advisors: Dr. Denise Bauer, Dr. Girish Upreti, Dr. Matthew Foreman

Problem Statement

The Assistant Professor of the Occupation Therapy (OT) department is responsible for generating the accreditation report that must be submitted to the accrediting body for occupational therapy programs. There is no department standard to simplify the reporting process. The lack of a standardized process forces the reporter to spend an estimated 40 hours producing this report. The report must be generated using Excel: other tools are superfluous.

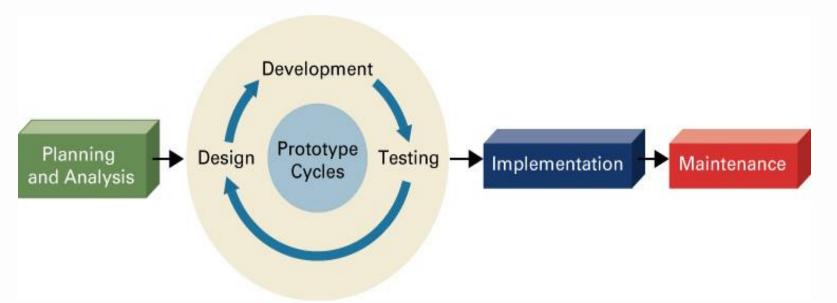
What we were given...

- 3 cohorts of data
- Cohort class size range: 24-32
- 19 tabs of data
- 700+ columns of data for each cohort

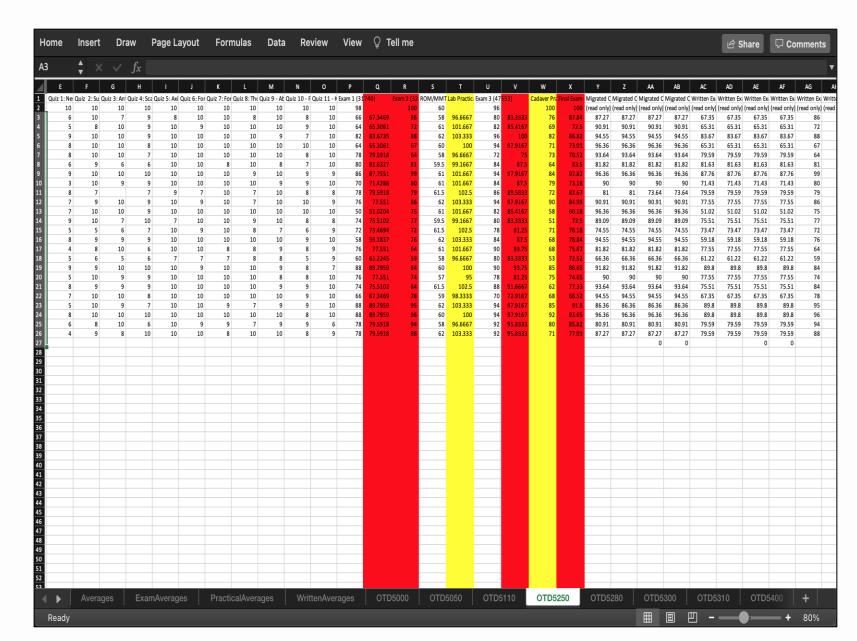
Constraints	
Scope	Ambiguous deliverable
Time	Duration of the project
Interphase	Design platform: Excel

Methods

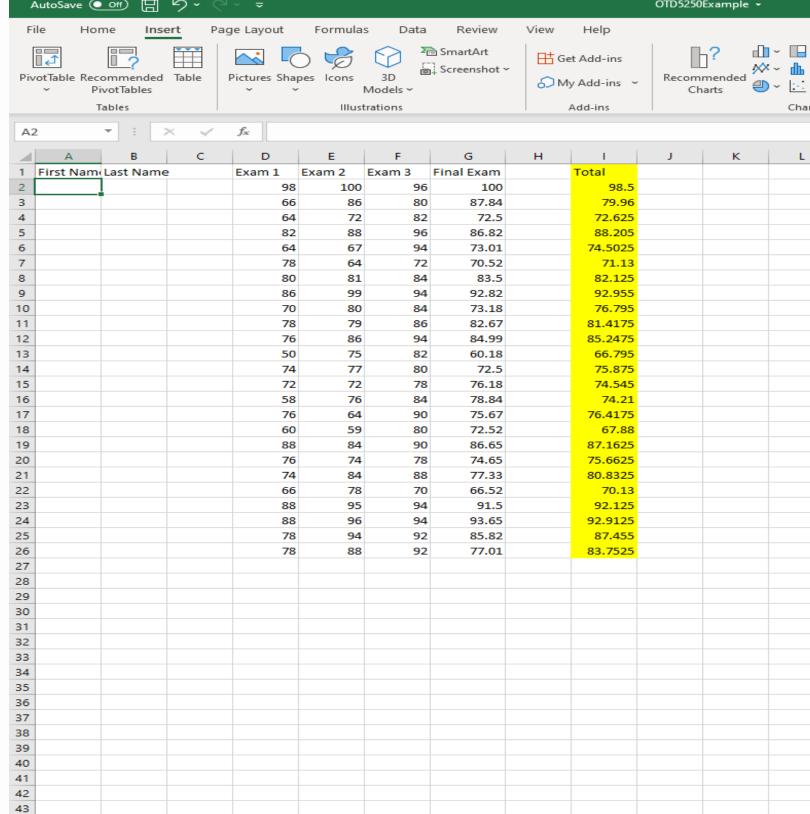
- System Validation Techniques
- Rapid Application Development (RAD)
- System Integrations Test and Evaluation (SITE)
- System Integration Techniques



RAD Process Chart



Screenshot of Original Product



Screenshot of Final Product

Results

- Reduction in man hours from 40 hours to 5
- Standardized system integrable across multiple years
- Decrease chance of user error
- Share workload across departments, moving from one professor to multiple

Conclusions

Standardized Excel recording system reduces time required for accreditation report creation from 40 hours to 5 hours. Shared workload allows time to be spread among several faculty members.

