# AmerisourceBergen Co. Research Project

FAIR Model Application RippleRA





# Agenda

- Who We Are
- Our Client
- The Project
- Prototype
- Web Application
- Closing Remarks





#### Alex Reichart:~# whoami

- Senior MIS and Finance Double Major
  - Capstone Student
  - AIS Chair of Scholarship
- Competitive, Team Oriented, Solution Driven
- Incoming Media Tech Associate at NBCUniversal
- Why I was interested?
  - Development project brought together both of my interests: MIS and Finance
  - Add value through developing aspects of the prototype





#### Thomas Norris-About Me

- Born in Silver Spring, MD
- Third year, BBA-MIS/Minor-Computer Science
- Member of the "Lanterns", MIS' Hackathon Team
- C, JavaScript, Python, HTML/CSS
- Special Interests: AI, API Development, Game Programming





# AmerisourceBergen (NYSE: ABC)

- Leading global healthcare solutions company
  - 29 distribution centers in US, 137 offices in 52 countries
- Founded 1985, headquartered in Chesterbrook, PA
- #391 on Forbes Fortune 500
- Partnered with Temple:
  - Build an application that will analyze the financial risk of IT project





# ABC and Information Technology

- Global firms require global IT
  - Innovative and state of the art → always improving

- Change = Risk
  - Analyzing the financial impact is a decisive factor

- Utilize FAIR methodology for selecting projects
  - Low
  - Moderate
  - High





# About the Project

Mission: To develop an application to analyze the monetary risk of IT decisions using the FAIR model

#### What's FAIR?

- FAIR: Factor Analysis of Information Risk
- A method of risk calculation focused on the frequency and magnitude of loss, what those factors are comprised of, and how they affect one another

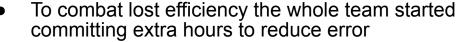






# Covid-19 and its Impact

- The spread of Covid-19 caused Temple campuses to close just one week after spring break
- In order to make the project work our dependency on online resources skyrocketed
- The situation posed new challenges to collaborative documents and version control
- committing extra hours to reduce error













# Prototype: Excel Model Logic

Dr. Kumar

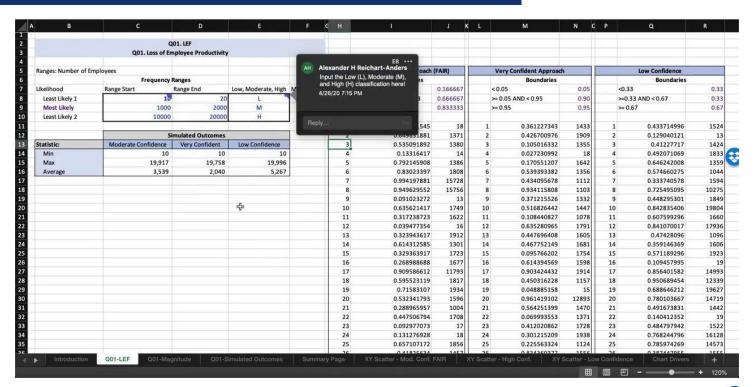
- Started with an Excel Model
  - Multiple Spreadsheets for the different components
  - Link to Workbook

- Can be used as a local version of the app
  - Requires manual input
  - Can be done outside of the ABC network





## Prototype Visualization







#### Ripple Risk Analysis: The User Interface

#### **Importance: Great**

- Analysts at ABC were already using a different FAIR software
- Conveyed to us by ABC that unless UI was easy to use and appealing from early on, our stakeholders wouldn't transition products

#### Goals:

- Create an application with the functionality personal ABC touch
- Heavy error-checking to reduce adoption duration/ensure standardized data
- Optimize edge processes to ensure fastest data processing b/w client and server





# Ripple Demonstration







# Current Progress and Next Steps

- Finalize implementation of excel model logic on application server
- Initialize QA testing with ABC analysts to improve UI and error checking
- Continue protecting server side from SQL injections & other nefarious activity
- Build and stylize the Excel Templates to ABC standards
- Conduct trainings of the Prototype and Application





#### Thank You!

- This experience was
  - Challenging
  - Rewarding
  - Invaluable

Any Questions?





#### E-Portfolio Screenshot

[Insert e-portfolio screenshot]



