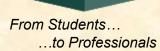
#### **MICHIGAN STATE** UNIVERSITY **Alpha Presentation Performance Scorecard Automation** The Capstone Experience **Team United Airlines Airport Operations** Noah Little **Danny Lee Griffin Klevering Guanzhang Zheng** Cynthia Trocinski

Department of Computer Science and Engineering Michigan State University

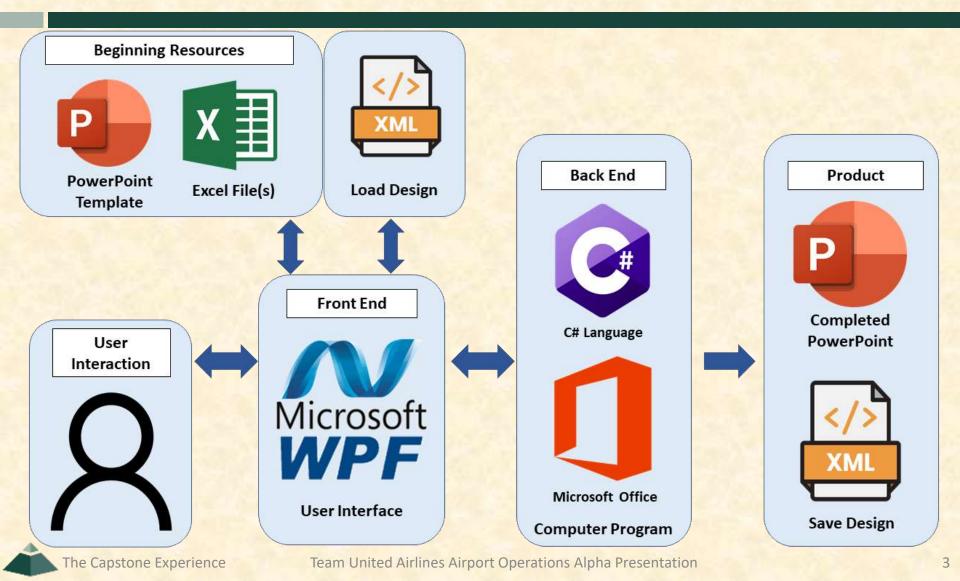
Spring 2022



#### **Project Overview**

- Safety scorecards are time consuming to create and can have human error
- Will automate scorecards to prevent this
- Users enter data sheets, a PowerPoint template, and create a design to format their scorecard
- System automatically generates a scorecard using the selected data and the user's design
- Allow a user's design to be reused with future data files to generate future scorecards with no effort from the user

## System Architecture



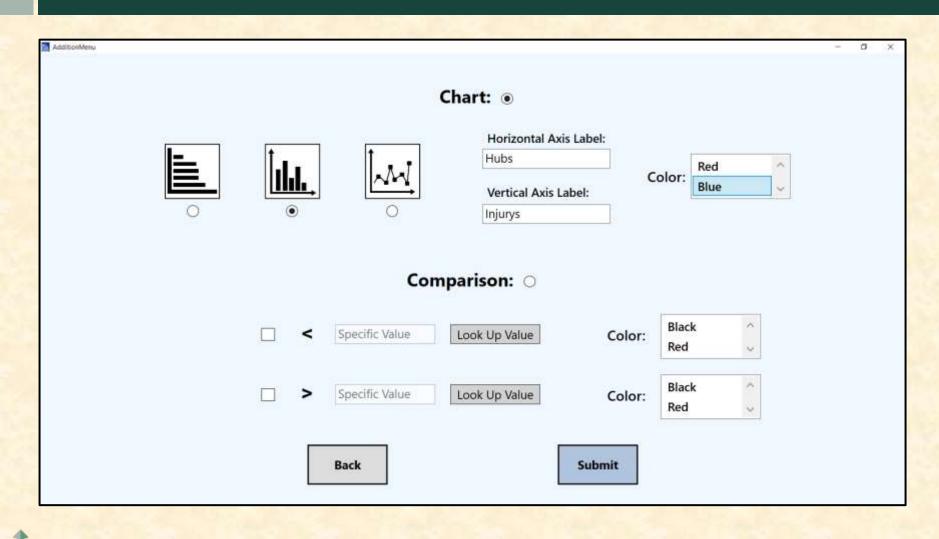
### Menu Screen

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Excel	Spreadsheets Sele	ection		
WorkBook_Safe	WorkBook_Safety_Brief_V4.xlsx			
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PowerPoint Template Selection Desig		sign Selecti	on	Create New
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Po C:\Users\kleve\Doo	werPoint Destinat	Select	Select	Edit Design
Po	werPoint Destinat			Edit Design

# Shape Content Screen

Row Header:	State Damage Rate
Column Header:	Data
Data Search Range:	A2:K16
Workbook:	Workbook_Security_Brief.xls
Worksheet:	DEN
Default Value:	0

# **Addition Screen**



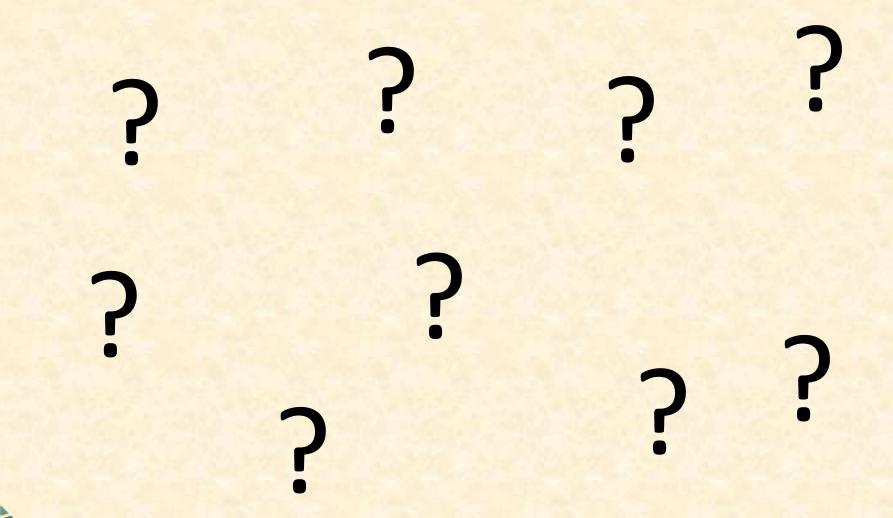
# **Design Shape List**

DesignMenu			12		42	o ×
		De	esign			
	Shape	PlainText	Content Select	Additional Select		
	Shape 0	Overall Damages	Content Select	Addition Select		
	Shape 1		Content Select	Addition Select		
	Shape 2	Reasons for Damage:	Content Select	Addition Select		
	Shape 3		Content Select	Addition Select		
	Shape 4	[	Content Select	Addition Select		
				· · · · · · · · · · · · · · · · · · ·		
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Back				Clear	Submit	

### What's left to do?

- Implement Graph data saving and loading
- Create Graphs using PowerPoint with loaded data
- Implement Comparison Data saving and loading
- Affect colors on PowerPoint with Comparison Data
- Implement allowing the user to click on a PowerPoint shape and Excel cell to select data

#### **Questions?**



Team United Airlines Airport Operations Alpha Presentation