Beta Presentation
Performance Scorecard Automation

The Capstone Experience
Team United Airlines Airport Operations

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Project Overview

- Safety scorecards are time consuming to create and can have human error
- Will automate scorecards to prevent this
- Users enter a data sheet, 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

Beginning Resources
- PowerPoint Template
- Excel File(s)

Load Design

Front End
- User Interface

Back End
- C# Language
- Microsoft Office
- Computer Program

Product
- Completed PowerPoint
- Save Design

User Interaction

Microsoft WPF
Main Menu

Excel Spreadsheet Selection
SingleWorkbook_safety_brief_v2_MS.xlsx

PowerPoint Template Selection
202112 Hubs Scorecard_FINAL.pptx

Design Selection
2022_Scorecard_Design.xml

PowerPoint Destination
C:\Users\kleve\source\repos\PerformanceScorecardAutomation\input

Submit
Design Menu

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<th>PlainText</th>
<th>Content Select</th>
<th>Additional Select</th>
</tr>
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<td>Addition Select</td>
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<td>Addition Select</td>
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<tr>
<td>Shape 2</td>
<td>Damages</td>
<td>Content Select</td>
<td>Addition Select</td>
</tr>
<tr>
<td>Shape 3</td>
<td></td>
<td>Content Select</td>
<td>Addition Select</td>
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<td>Addition Select</td>
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<td>Shape 8</td>
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[Back]  [Submit]
Content Menu

Shape Content Editor

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<td>Default Value:</td>
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</tbody>
</table>

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Additional Content Menu

[Image of a software interface with options for chart selection, comparison settings, and color choices.]
What’s left to do?

• Stretch Goals
  ▪ Shape click-to-select
  ▪ Shorten worksheet names
  ▪ Progress bar

• Other Tasks
  ▪ Optimize shape insertion
  ▪ Improve Excel/PowerPoint cleanup
  ▪ Clean up code
Questions?