



Alpha Presentation

Data on Demand App

The Capstone Experience

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*From Students...
...to Professionals*

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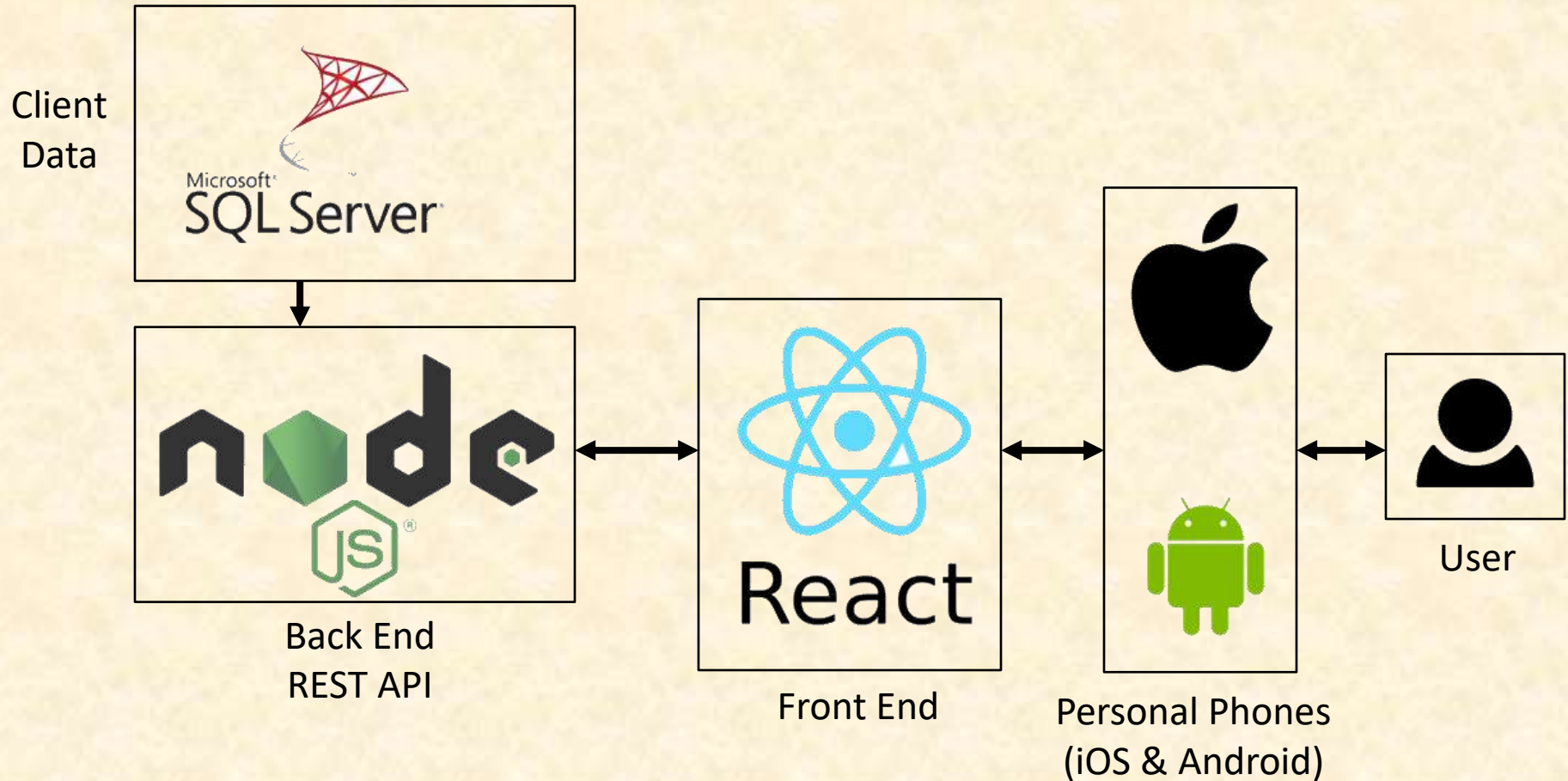
Fall 2022

Project Overview

- Find information on employee injuries, aircraft damages **quickly**
- Problem: Such data is **not available as efficiently** as wanted in current system
- Solution: Mobile application developed to display information **on-demand**
- Managers will be able to access information **on-the-fly**



System Architecture



Injury Filter

The image shows a smartphone screen with the 'Injury Filter' application. The interface is clean and modern, with a white background and dark text. The title 'Injury Filter' is centered at the top. Below it, there are several filter categories, each with a dropdown menu. The categories are: Date Range (36 Months), Start Date (10/07/2019), End Date (10/07/2022), Station (DTW), Incident Type (Contact with Sharp Objects), Injury Type (Strain), and Body Part (Left Knee). At the bottom of the screen, there is a large, light blue button labeled 'Filter'. The smartphone's status bar at the top shows the time as 4:27 and various icons for signal, Wi-Fi, and battery.

Injury Filter

Date Range
36 Months

Start Date
10/07/2019

End Date
10/07/2022

Station
DTW

Incident Type
Contact with Sharp Objects

Injury Type
Strain

Body Part
Left Knee

Filter



Damage Filter

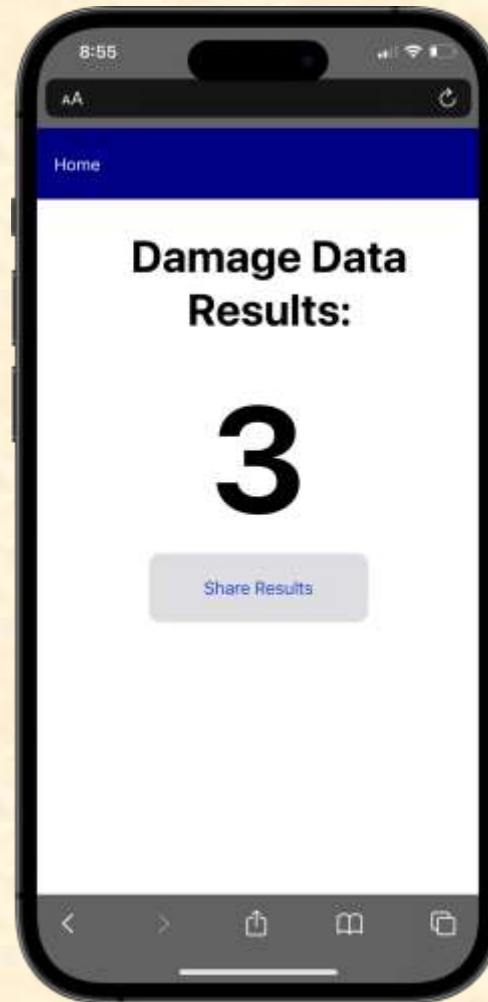
The image shows a smartphone screen with the 'Damage Filter' application. The status bar at the top shows the time as 4:27, signal strength, Wi-Fi, and battery level. The app's title bar is dark blue with 'AA' and a refresh icon. The main content area is white and contains several filter sections, each with a dropdown menu:

- Date Range:** 36 Months
- Start Date:** 10/07/2019
- End Date:** 10/07/2022
- Station:** DTW
- Reporting Division:** Any Division
- Damage Type:** Airport Ground Damage
- Responsible Division:** Any Division
- A4A or Non-A4A?:** A4A
- FOA or Non-FOA?:** FOA

At the bottom of the filter sections is a grey button labeled 'Filter'. The bottom of the screen shows the standard iOS navigation bar with back, forward, share, book, and tabs icons.



Damage Filter Results



Damage Filter Results Pop-Up



What's left to do?

- Front End
 - Make email body formatted
 - Add in “pause” for loading on injury filter pages
 - Clarify and format table for deeper dive into results
- Back End
 - Join filter options to pull results from filter
 - Discuss with client to add procedures to SQL Server
 - REST API call on procedures



Questions?

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