Project Plan Presentations Today September 23, Anthony 1279

- Team AppDynamics
- Team Auto-Owners
- Team Dow
- Team Herman Miller
- Team Bosch

MICHIGAN STATE IVERSITY **Project Plan BizIQ Flow Map Using Sequential Analytics Data** The Capstone Experience **Team AppDynamics Benjamin Read** Tom Currie **Carter Lewis** Naifu Ji **Quinton Schwagle** Department of Computer Science and Engineering Michigan State University Fall 2019

From Students... ...to Professionals

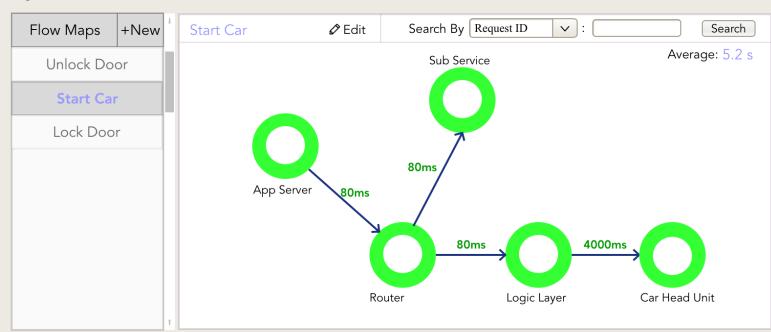
Functional Specifications

- Allow users to create Flow Maps representing distinct transactions
- These flows come from various types of data
- Transactions visualized in a way that individuals with differing levels of technical knowledge can understand.
- The main purpose of the visualizations is to monitor impact on end users.

Screen Mockup: View Flow Map

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APPDYNAMICS



Jaguar Land Rover Automotive PLC

Screen Mockup: Create New Flow Map

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Jaguar Land Rover Automotive PLC												
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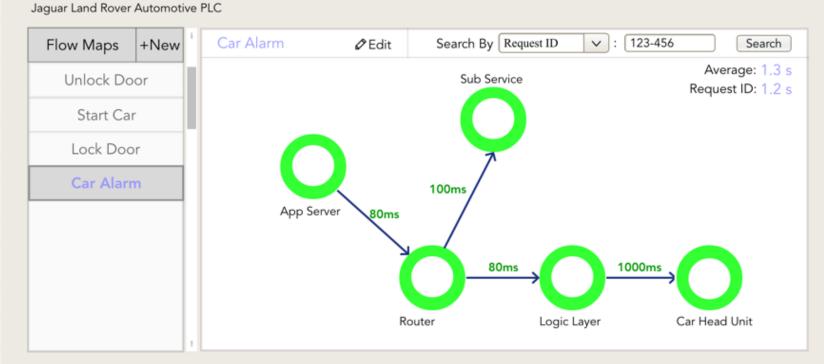
Screen Mockup: Flow Map Creation

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Screen Mockup: Search A Flow Map

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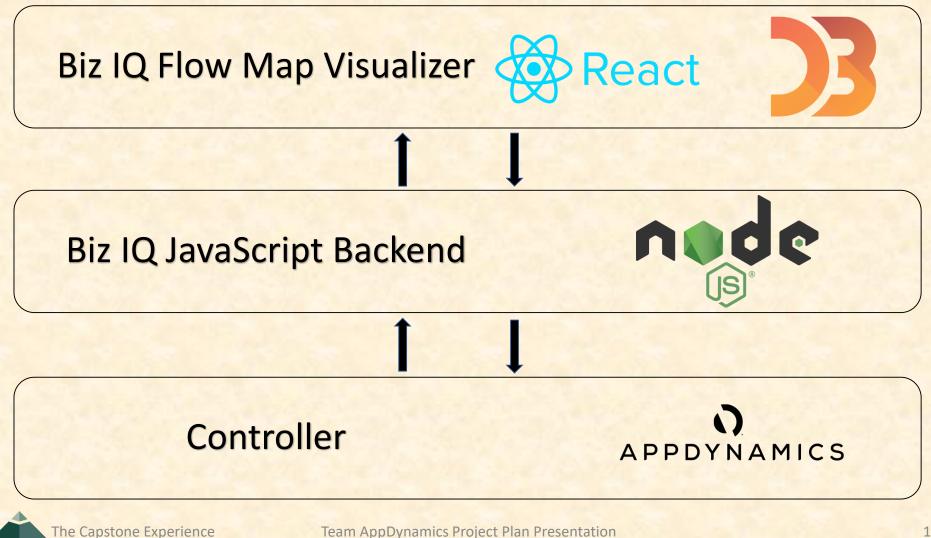
Design Specifications

- Development of a user interface that is easy to navigate
- Provide a way for users to create and save a flow map
- Generalize the application to any number of customers
- Search functionality for certain processes within transactions

Technical Specifications

- D3.js creating flow maps
- HTML/CSS
- React
- AppDynamics Controller
 - ADQL Query Database
- Node.js back end

System Architecture



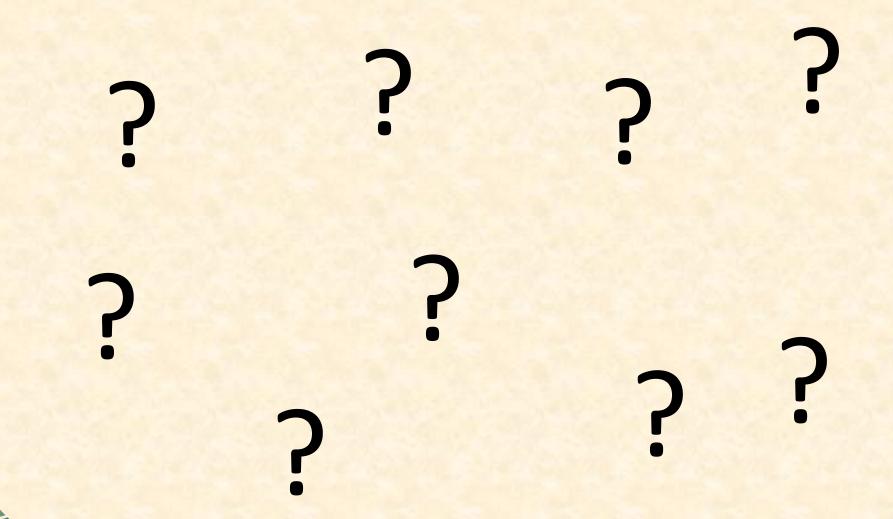
System Components

- Hardware Platforms
 - iMacs
- Software Platforms / Technologies
 - Node.js
 - D3.js
 - React
 - AppDynamics Query Language (ADQL)
 - AppDynamics APM and Analytics
 - Github.com

Risks

- Dynamic Flow Map -- Priority: High, Difficulty: Low
 - Unable to create dynamic flow map using D3.js
 - Mitigation: Contact Google's team from last year.
- API Integration -- Priority: High, Difficulty: Low
 - Unable to integrate AppDynamics API with Node.js
 - Mitigation: Research API documentation and communicate with client.
- D3/React Compatibility -- Priority: Medium, Difficulty: Medium
 - Both DOM manipulators
 - Mitigation: Disabling DOM manipulation in React

Questions?



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