

Rules Engine for Data Validation Checks

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Morgan Stanley

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Morgan Stanley

- ◆ Global Financial Services provider
- ◆ Clients include governments, institutions, high net-worth individuals
- ◆ Technology Division makes up 20% of the workforce
- ◆ Corporate Funding Technology

The Morgan Stanley logo, consisting of the words "Morgan Stanley" in a white serif font, centered within a dark blue square.

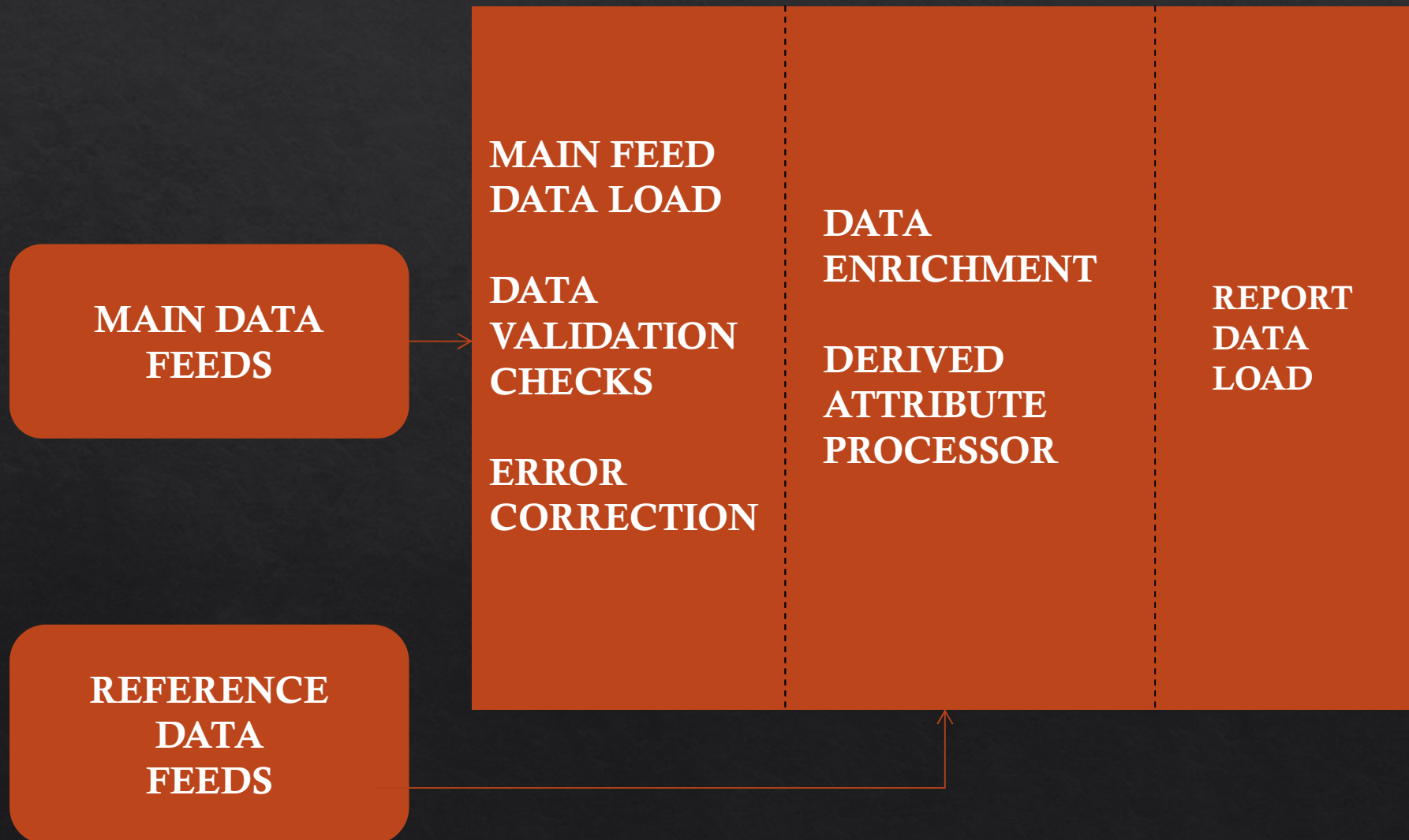
Morgan Stanley

Treasury Technology



Context

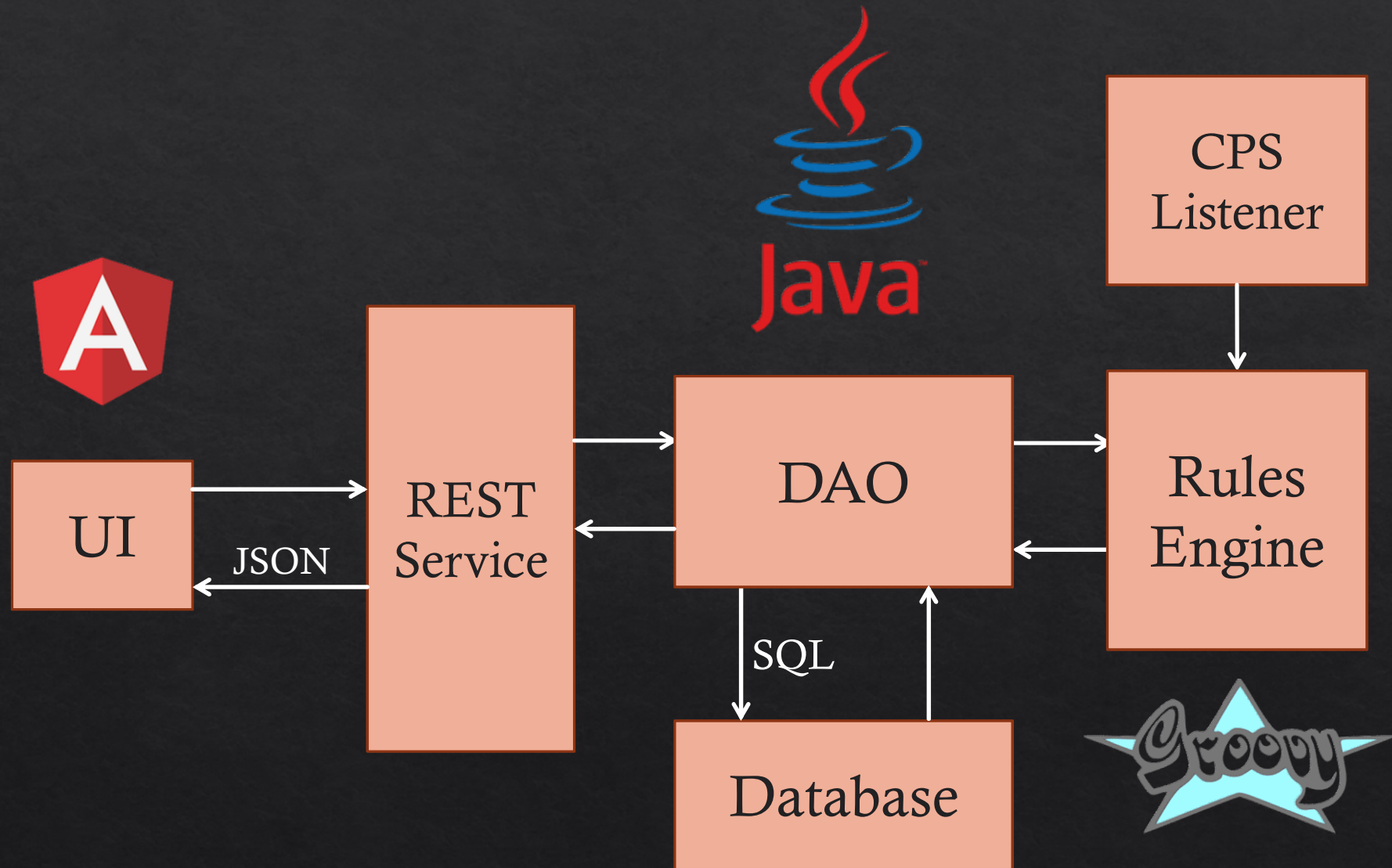
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Project Overview

- ◆ Implement data validation checks for Reference Data Feeds
- ◆ Display results of checks on a web dashboard
- ◆ Follow a rule-based approach
- ◆ Integrate with existing feed processing pipeline
- ◆ Green-field project – no existing codebase, set up and configuration
- ◆ Morgan Stanley Development Environment
- ◆ User communication
- ◆ Testing – Dev and QA environments

Design



Reflection

Positives

Educational Experience

- Workflow
- Scalability
- Financial Background

Social Aspects

Negatives

Project Planning: Timeline

- Design / Implementation split
- Full-stack Development

DoC Context

- ◆ Modules

- ◆ Java Programming – Alastair Donaldson
- ◆ Software Engineering Design – Robert Chatley

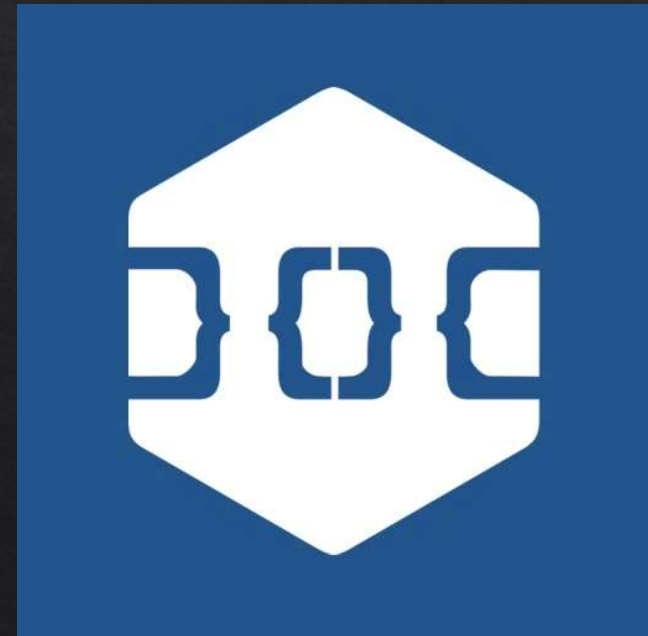
- ◆ Options

- ◆ Databases – Years 1 and 2
- ◆ WebApp Project – Year 2

- ◆ Other topics

- ◆ Scalability
- ◆ Financial Context

- ◆ 3rd Year Group Project



Thank you!

Questions?