

Datacus

Multi-Dimensional Data Explorer

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Team Members

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Buck Heroux
Adam Jackson
Ian Smith
Matt Smith

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Major Points Of This Presentation

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Dynamo Business Intelligence Corporation

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What is Business Intelligence?

The Tools & Techniques used to Analyze Business Data

Analytics, Data Mining, Dashboards, Reporting, Charting & Graphing, Predictive Analysis

Used by majority of Fortune 500 Companies across all Industries

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Problem

```
SELECT { [Measures].[Sales Amount],
[Measures].[Tax Amount] } ON 0, { [Date].[Fiscal].[Fiscal Year] & {2002}, [Date].[Fiscal].[Fiscal Year] & {2003} } ON 1 FROM [Adventure Works] WHERE ( ([Sales Territory].[Southwest] )
```

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Solution

Datacus



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Solution Overview

Uses

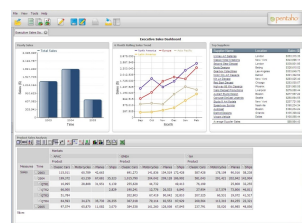

Requirements

Conceptual View

Design
User Interface
Architecture

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Uses of Datacus

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More Uses

Great solution for companies fed up with their current BI systems

Anyone who needs help making sense out of large amounts of data

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Requirements Overview

Environmental

Functional

Conceptual Overview Diagram

User Interface

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Environment Requirements

Development

- Windows 7 OS
- Eclipse 3.1.2
- Adobe Flash Builder 4

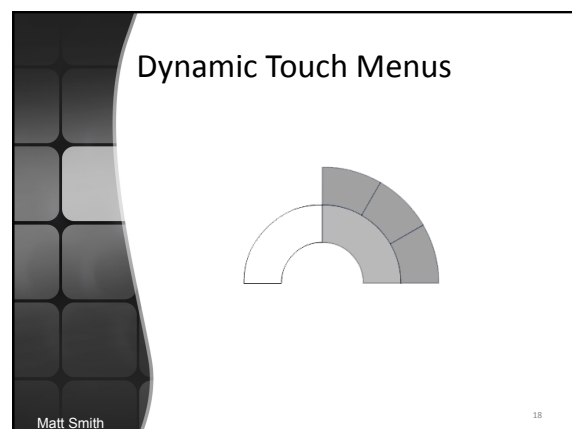
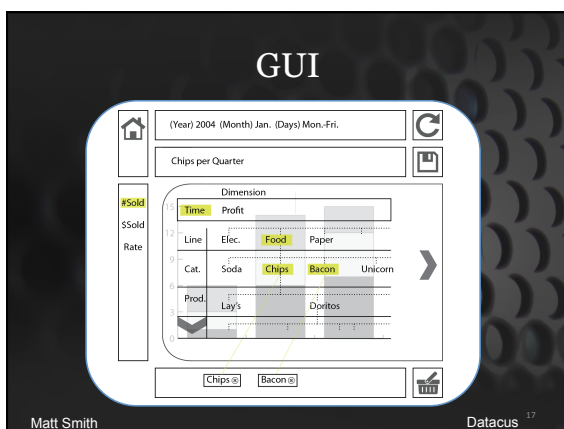
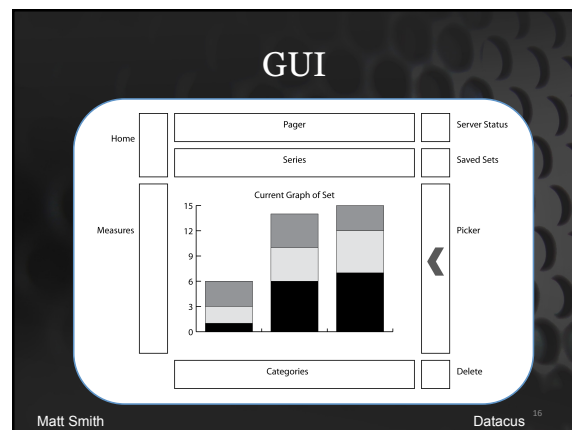
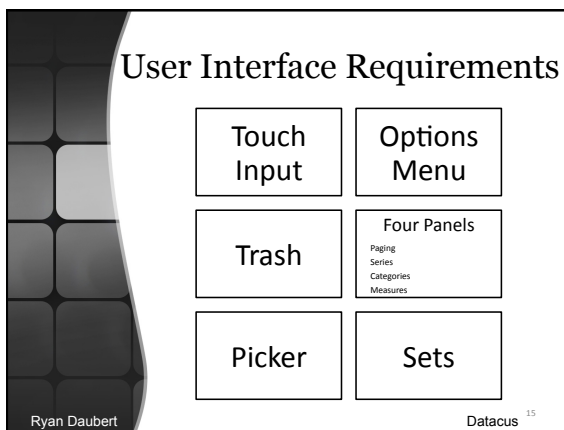
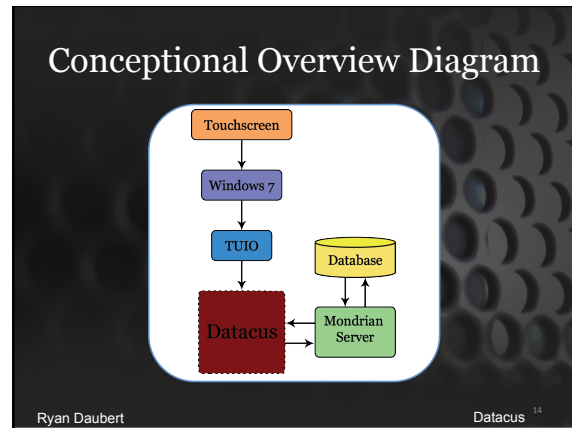
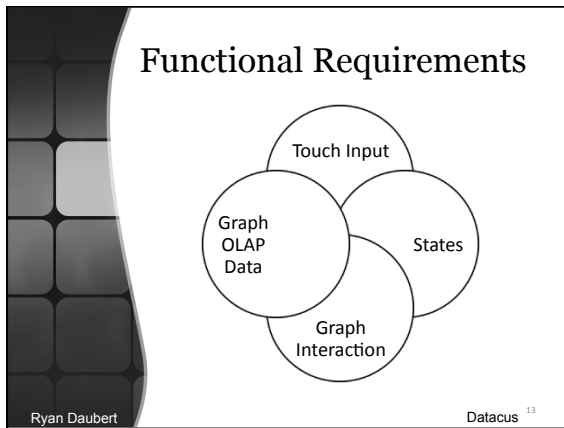
Runtime

- Windows 7 OS
- Flash Player 10.1 and above

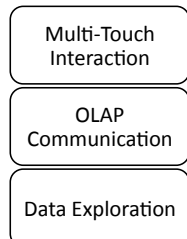
Hardware

- Processor: 2GHz or higher Intel or AMD processor
- Minimum 1920x1080 pixel 24-bit color multi-touch display of any size
- Connection to an available OLAP database

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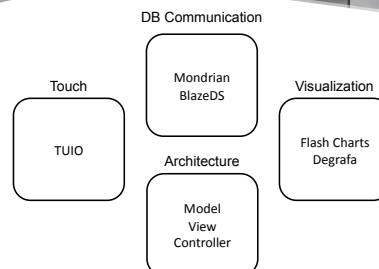
Design: Issues



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Design: Implementation

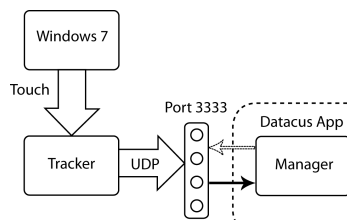


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TUIO

Table-top User Interfaces Objects

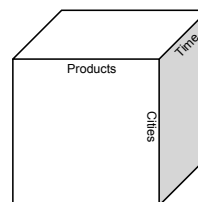


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OLAP/Mondrian

OnLine Analytical Processing

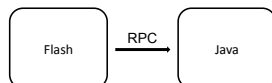


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BlazeDS

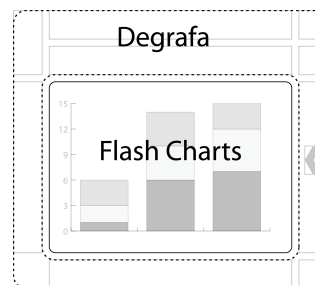
Allows Flash applications to remotely communicate with external Java applications.



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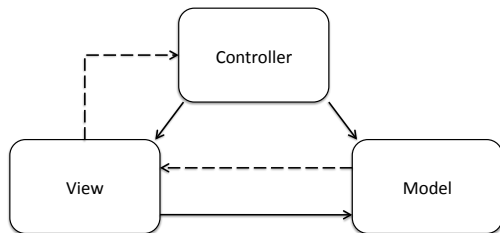
Visualization



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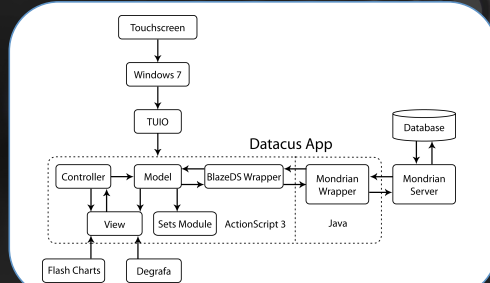
Model, View, Controller (MVC)



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Datacus Architecture Diagram



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Model

The Data Manager

Active Data
Active State
All Categories/Labels

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View

The Visualization

UI
Graph
Graphing Libraries

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Controller

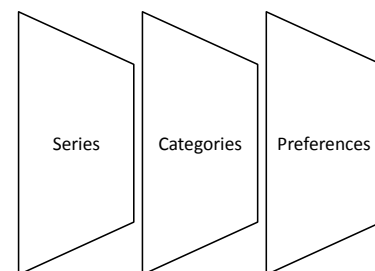
The Event Handler

Interaction Handling
Model Control
View Control

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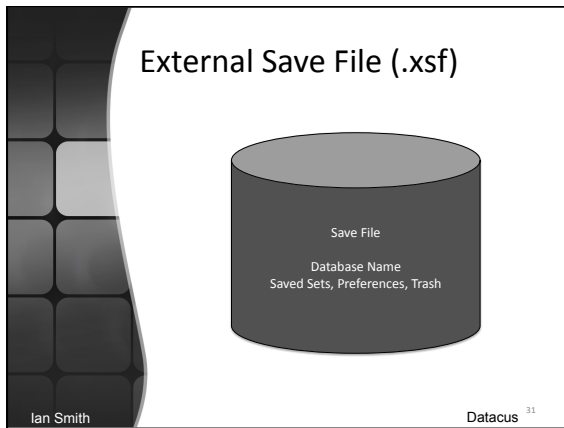
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States



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Summary

- Datacus project for Dynamo BI Solutions
- Multitouch BI System
- Utilize Multiple Existing Open Source Systems

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Demo

- [Degrafa Pie Menu](#)
- [Dynamic Flex Charts](#)
- [Bump Top](#)

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