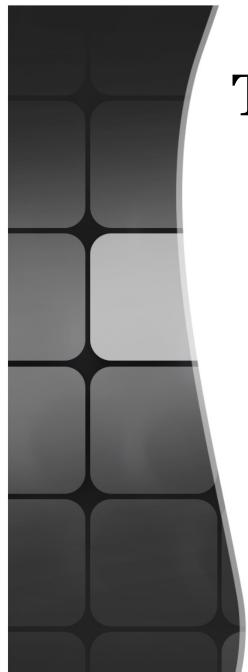
Datacus

Multi-Dimensional Data Explorer

October 26th, 2010

© TemplatesWise.com



Adam Jackson

Team Members

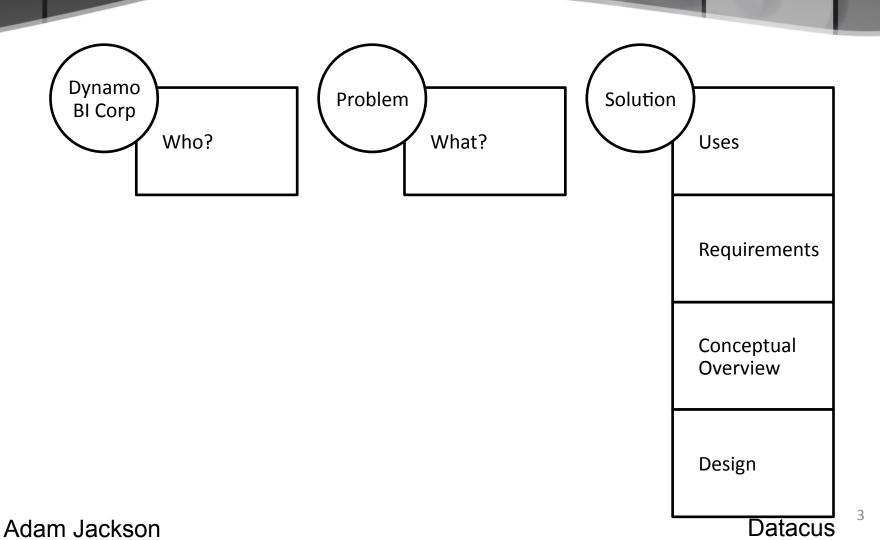
Ryan Daubert Buck Heroux

Adam Jackson

Ian Smith

Matt Smith

Major Points Of This Presentation



Dynamo Business Intelligence Corporation



Adam Jackson Datacus

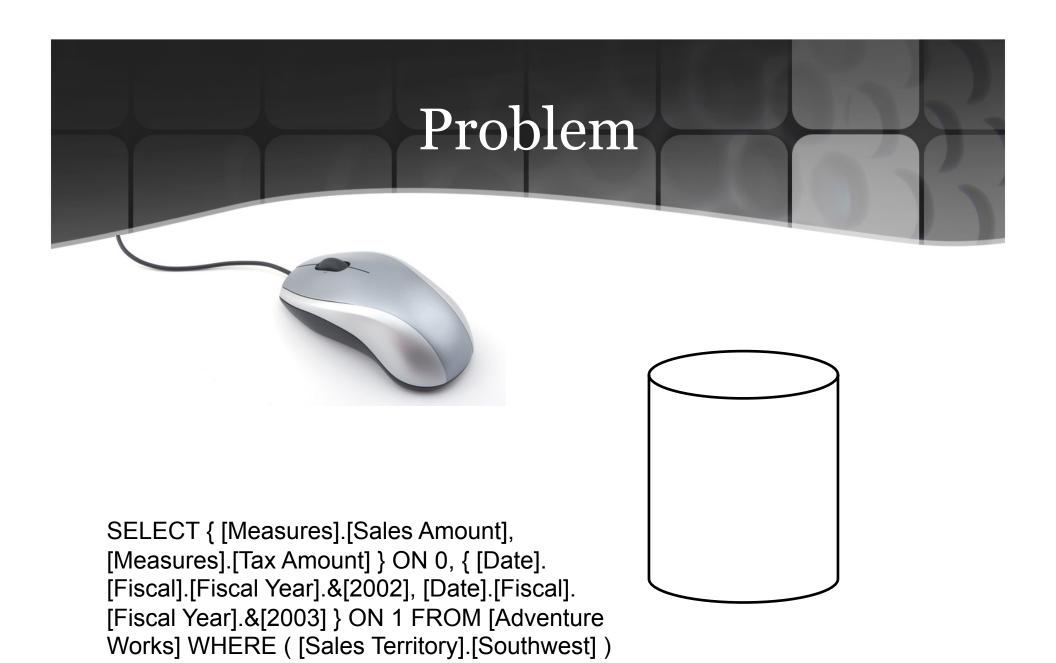
What is Business Intelligence?

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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Adam Jackson

Datacus



Datacus



Solution Overview

Uses

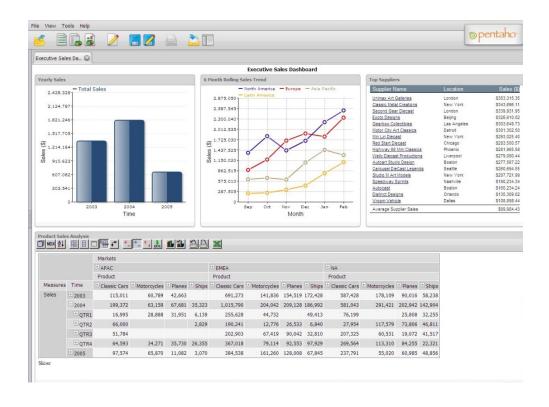
Requirements

Conceptual View Design

User Interface

Architecture







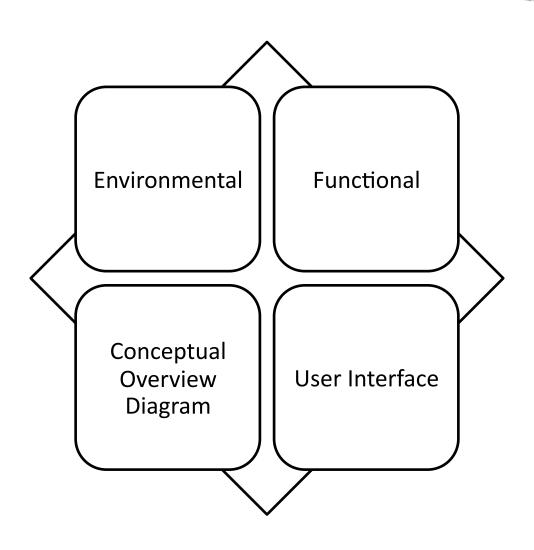
Matt Smith Datacus

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

Requirements Overview



Ryan Daubert

Datacus

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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

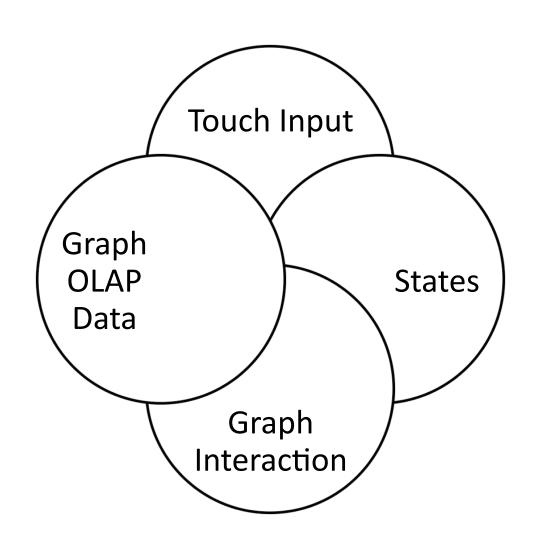
Hardware

- 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

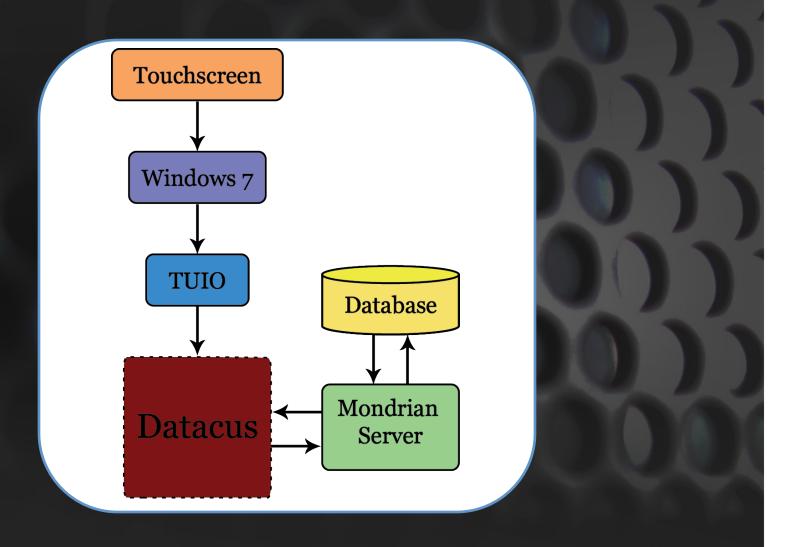
Ryan Daubert

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Functional Requirements



Conceptional Overview Diagram



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User Interface Requirements

Touch Input Options Menu

Trash

Four Panels

Paging

Series

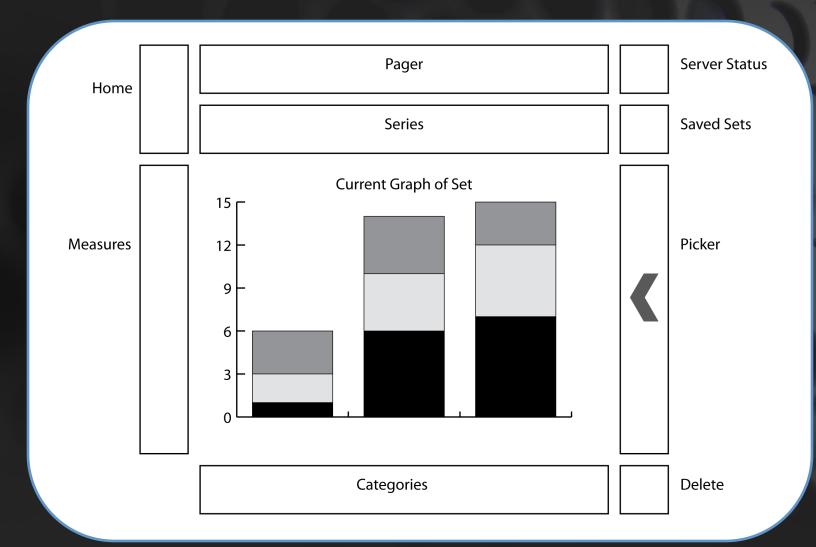
Categories

Measures

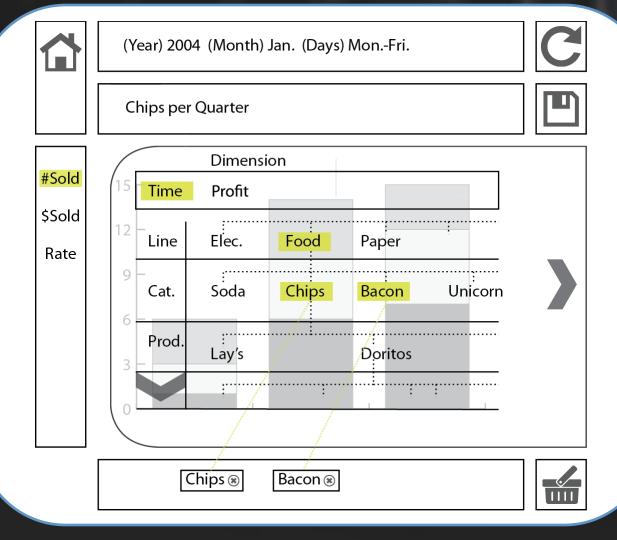
Picker

Sets

GUI

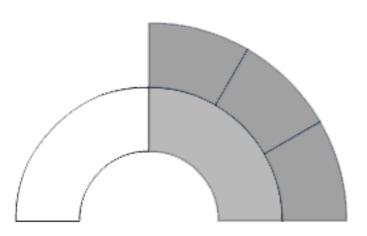


GUI



Dynamic Touch Menus

Matt Smith



Design: Issues

Multi-Touch Interaction

OLAP Communication

Data Exploration

Design: Implementation

DB Communication

Touch

TUIO

Mondrian BlazeDS

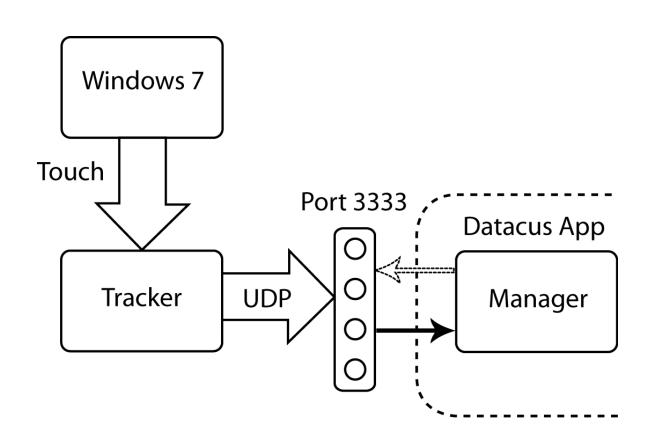
Architecture

Model View Controller Visualization

Flash Charts Degrafa

TUIO

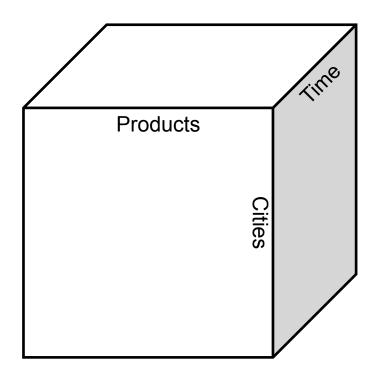
Table-top User Interfaces Objects



OLAP/Mondrian

Buck Heroux

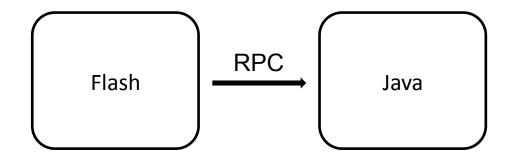
OnLine Analytical Processing



Buck Heroux

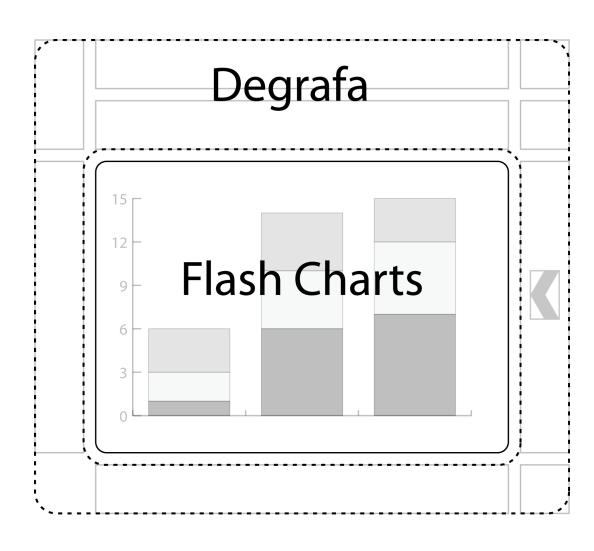
BlazeDS

Allows Flash applications to remotely communicate with external Java applications.

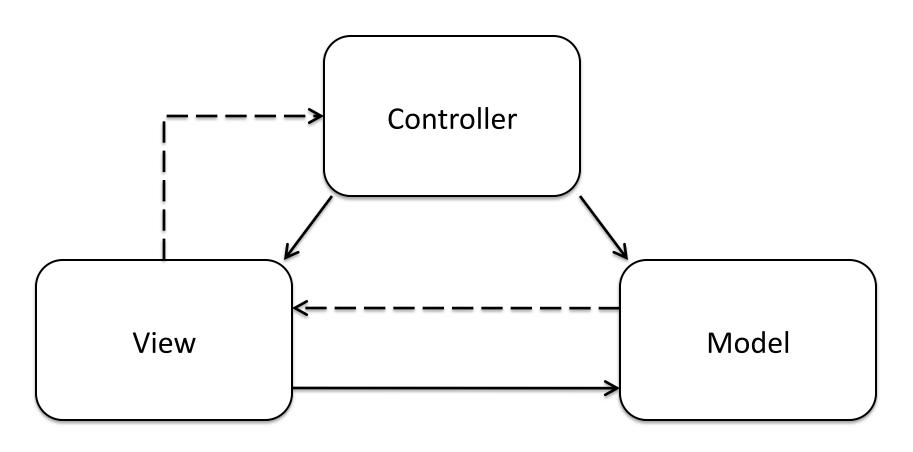


Visualization

Buck Heroux

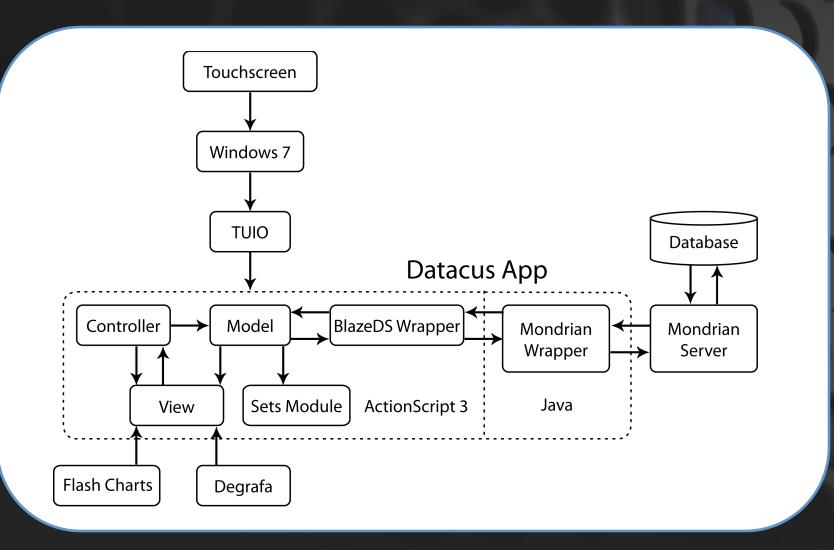


Model, View, Controller (MVC)



Ian Smith Datacus ²

Datacus Architecture Diagram



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Model

Ian Smith

The Data Manager

Active Data
Active State
All Categories/Labels

View

Ian Smith

The Visualization

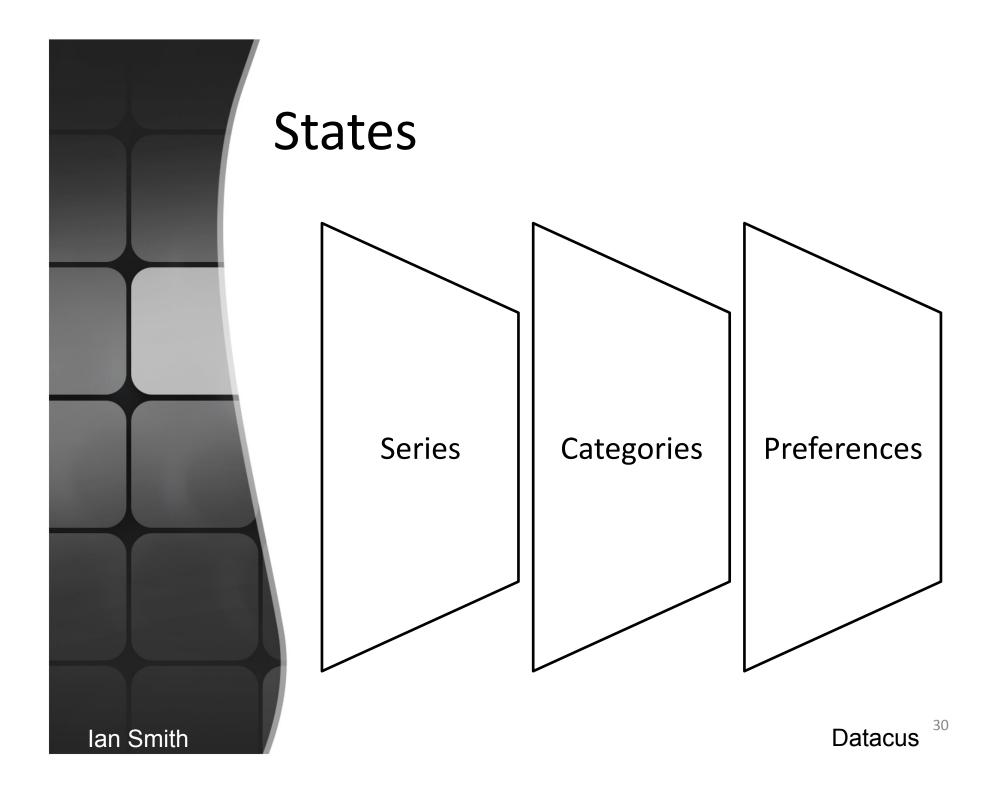
UI Graph **Graphing Libraries**

Controller

Ian Smith

The Event Handler

Interaction Handling Model Control View Control



External Save File (.xsf)

Ian Smith

Save File

Database Name
Saved Sets, Preferences, Trash

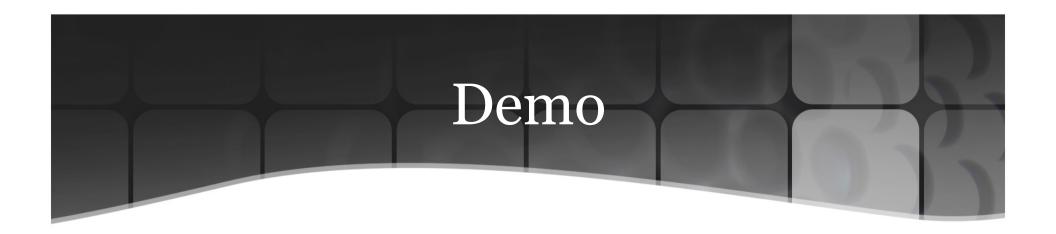
Summary

Datacus project for Dynamo BI Solutions

Multitouch BI System

Utilize Multiple Existing Open Source Systems

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Degrafa Pie Menu

Dynamic Flex Charts

Bump Top