

The background is a dark blue gradient with several lighter blue circles of varying sizes. A bright green rectangle is positioned in the top right corner.

# My Digital Life – MyStuff

TECHNICAL PERSPECTIVE

# Introduction



Mark Laney



Seungwoo Choi



Cameron Clark

# Outline

- ▶ Business Background
  - ▶ Issues with Old System
- ▶ Proposal
  - ▶ Schedule
  - ▶ Cost Benefit Analysis
- ▶ Architecture of New System
- ▶ Demos

# Business Background

- ▶ Problems
  - ▶ Paradigm Shift
    - ▶ The Transition From Film to Digital
  - ▶ Branding
    - ▶ Apple vs. JC Penney
  - ▶ Lacks Automation
    - ▶ No System Supporting Documents



A screenshot of a web browser displaying the Dudeandco.com blog. The browser's address bar shows the URL 'dudeandco.com/blog.jsp'. The website has a grey navigation bar with the 'MyStuff' logo and links for 'SHOP', 'ABOUT US', 'BLOG', 'MEMBERSHIP INFORMATION', 'CONTACT US', and a 'Sign in' button. Below the navigation bar, the word 'Blog' is written in a large, stylized font. To the right of 'Blog' is a search bar with a magnifying glass icon and the text 'Search'. The main content area features three blog posts, each with a large image at the top, a title, a date, and a paragraph of text. The first post shows a man blowing a pink bubble, the second shows three men standing outdoors, and the third shows a woman making a peace sign. All three posts have the same title and text. A tablet is partially visible on the right side of the image, showing a portion of another webpage.

MyStuff

File Window Help

New Open Store Save

# Sale

## Customer

Phone 801 Search

## Customer Details

Name  
Member ID  
Phone #  
Address  
City  
State Zip  
E-mail

## Details

SKU	Quantity	Description	Price
P546600	1	Canon 7D	\$799.99

>>

Canon EOS Search

- Canon EOS Rebel T1
- Canon EOS Rebel T2
- Canon EOS Rebel T3
- Canon EOS Rebel T4
- Canon EOS Rebel T5
- Canon EOS 300
- Canon EOS 400
- Canon EOS 500
- Canon EOS 600
- Canon EOS 7D
- Canon EOS 5D Mark 1
- Canon EOS 5D Mark 2
- Canon EOS 1D Mark 1
- Canon EOS 1D Mark 2
- Canon EOS 1D Mark 3

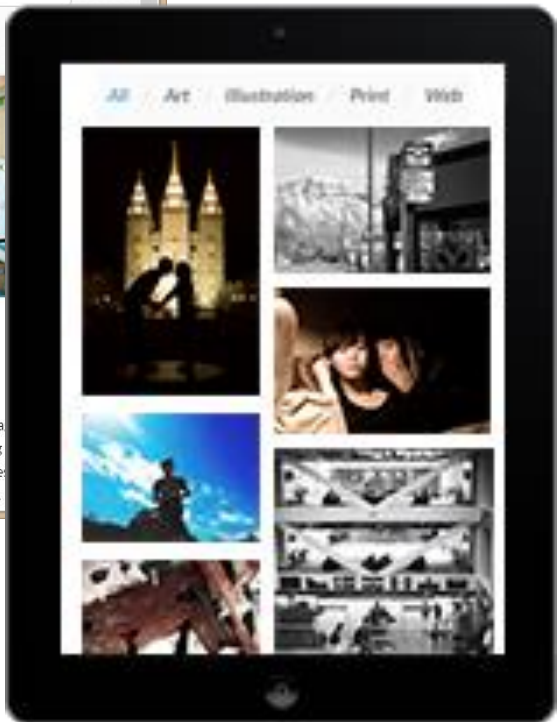
Subtotal

Tax

Total

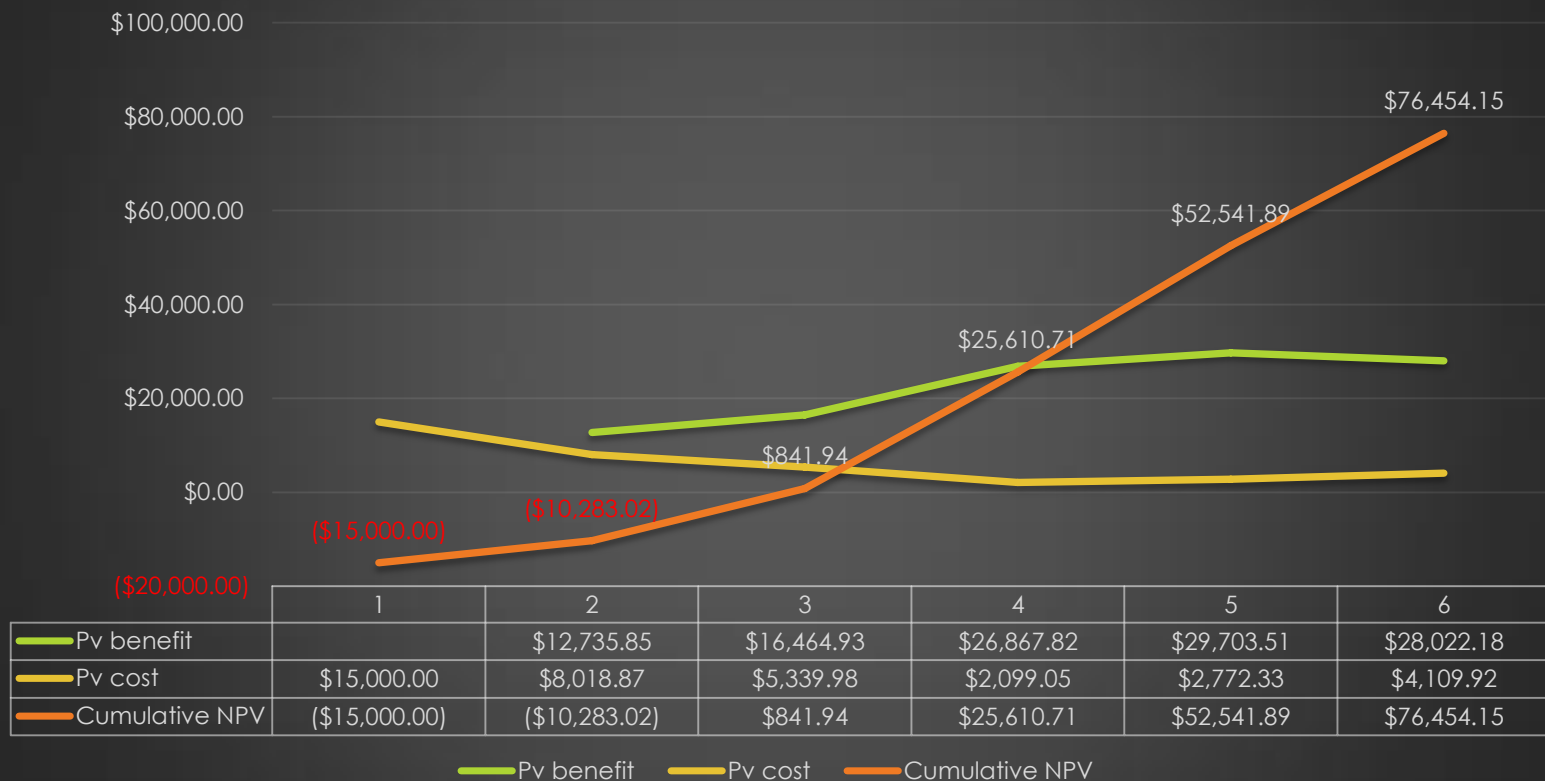
Make Sale Cancel Delete

dudeandco.com/blogpost.html



# Cost Benefit Analysis

Cost Benefit Chart by year



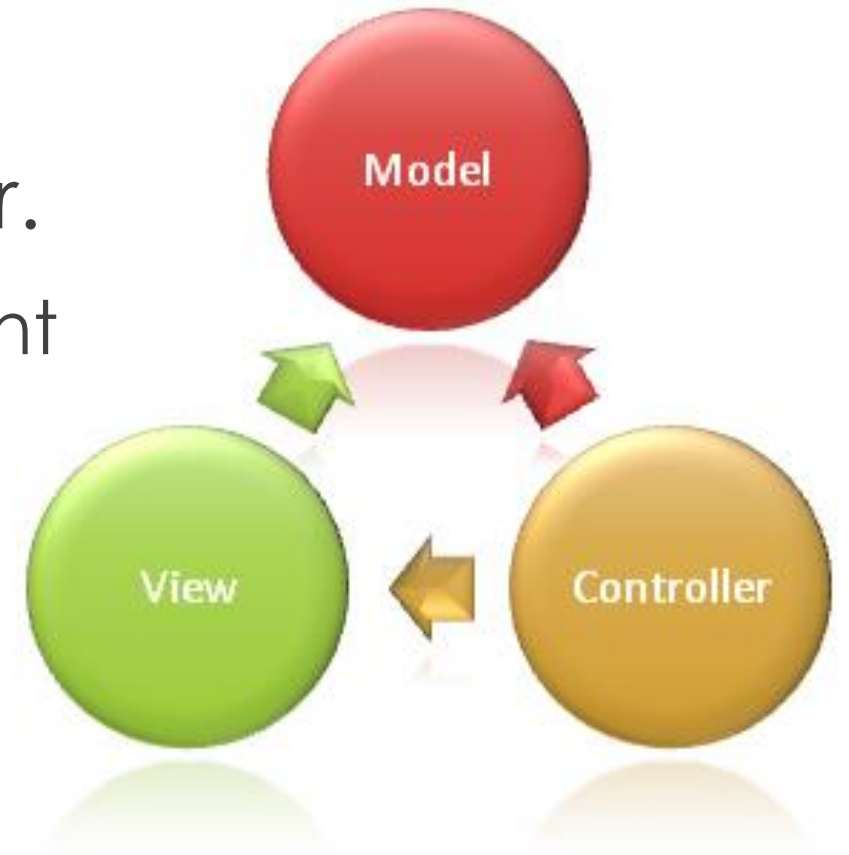
# System architecture

- ▶ MVC
- ▶ Cache
- ▶ Data Access Object
- ▶ Business Object
- ▶ Office vs. Web vs. Mobile



# MVC

- ▶ Makes both interface and data design independent of one another.
  - ▶ Allows for data to be used with different views
  - ▶ Promotes good task defining





# Cache

- ▶ Stores business objects retrieved from DB
  - ▶ Reduces load on DB
  - ▶ Reduces errors and access time
- ▶ Removes data from cache:
  - ▶ Data is altered
  - ▶ Data is unused



# Data Access Object

- ▶ A DAO class that has exclusively rights in handling data going to and coming from the database.
  - ▶ Creates standard through out the program for writing to the database
  - ▶ Ensures all information is protected and being updated correctly

# Business Object

- ▶ Java Abstract Class Between Software and Database
  - ▶ Used For Three Things
    - ▶ Dirty – Mark when an object is changed
    - ▶ isAlreadyInDb – New object creation/object read
    - ▶ Business Object Field Interface – what goes in/what doesn't

# Web. Vs. Mobile vs. Office

## ► Web

- Online Purchases
- Blogging

## ► Office

- Maintenance (products, employees, stores)
- Sales System
- Rentals
- Batch Systems

## ► App

- Backup of Pictures Through Upload
- Views Pictures
- Shares Pictures with Friends
- Purchase Prints





DEMO