Paperless Ideas for Abrasive-Form

As presented by: IPRO 347

Introduction

IPRO 347

The purpose of this IPRO is to make Abrasive-Form a better company by saving space, time, and money

Team Ethics

The team's Ethics Plan stresses respecting the nondisclosure agreement with Abrasive-Form[®]

Disclosing information about Abrasive-Form[®] could cause the team to aquire biased information

Project Team Members

*Instructor: William Maurer

Sponsor: Abrasive-Form, Bloomingdale, IL Company Representative: Greg Zilinisky

Team: Vitali Basiourski [ME], Christopher Drag [EE], Samad Erogbogbo [ME], Richard Ike [ME], Maciej Krolikowski [BME], Daniel Mendez [EE], Erin Mersch [BAAS], Anton Orlichenko [CPE], Justin Roediger [BME], and Despina Zouridis [ARCH], William Cabrera [ME],.

Abrasive-Form

Established in 1976, Abrasive-Form is a rapidly growing contract manufacturer specializing in creep-feed grinding.

Proven Performance Abrasive-Form's satisfied customers includes hundreds of distinguished companies spanning the spectrum of American Industry.

Expert Technical Help Abrasive-Form's grinding experts can assist with design and process specifications.

The Problem

IPRO 347

Abrasive-Form, a growing 21st century company using data management comparable to an abacus



Team Organization

* Quality Control

Vitali BasiourskiWilliam Cabrera

* Operations

- Christopher Drag
- Daniel Mendez

* Accounting

- Samad Erogbogbo
- ➢ Richard Ike

* Purchasing/Shipping

- Maciej Krolikowski
- Justin Roediger
- Despina Zouridis

* IT Dept.

- ➢ Erin Mersch
- Anton Orlichenko

Abrasive-Form Needs

Replace current physical document storage system

- Real time updating
- Simple and easy to use
 - Administrator and user control
 - Search Engine
 - Several searchable criterion
 - Has sub-folders
 - Time stamps
 - Comment logs
- Off-site backup



Abrasive-Form Wants

- E-mail alerts/alarms
- Remote Access
- Bar coded files
- Write to electronic documents
- Integrate data from CMM in database
- Export from Vista to database



Team Re-organization

* Systems

Vitali Basiourski
Samad Erogbogbo
Richard Ike
Erin Mersch
Anton Orlichenko

* Information

Christopher Drag
 Daniel Mendez
 William Cabrera
 Maciej Krolikowski
 Justin Roediger
 Despina Zouridis



Goal

Create an easy-to-use, windows server based, content management system



System Testing

Possible Solutions for electronic filing:
Windows Search
Google Desktop
Bugzilla
Django
SharePoint

Windows Search

Pros:
 Pre-installed on the computer – no purchasing/downloading necessary
 Can be limited to a folder
 Cons:
 Difficult to integrate with browser-based applications





Google Desktop

* Pros: ➢ Simple interface Searches within .pdf files \succ Sorts by date Cons: >Only for searching capabilities Searches the entire computer, not just a particular job folder

Possible confusion

desktop.google.com



Bugzilla

Pros: Allows you to make comments on each folder and search within the comments Allows search by job folder number Cons: Not a complete content management system

• Needs Perl coding language installed



www.bugzilla.org

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Django

Pros: Framework for building a content management system ➢ Fully customizable Easily linked to Databases and File Servers ➢ Pre-made admin. pages Cons: > Takes longer to implement, further development would be required

Extra coding is necessary to customize

Python language required



www.djangoproject.com

Abrasive Form administration

Welcome, Anton. Docum

Site administration

Auth		
Groups	🖶 Add	🥒 Change
Users	🖨 Add	🥒 Change
Sites		
Sites	🖶 Add	🥒 Change
Jobman		
Customers	🖶 Add	🥒 Change
Document comments	🖶 Add	🥒 Change
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washingtonpost.com

www.djangosites.org

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- Packing slip (Job #23346, Shipping) v. 1 Document version
- Packing slip (Job #23346, Shipping) Document
- Shipping Document type
- 23346
- 2334 Job
- Goodrich Corporation



SharePoint

* Pros

Comes with most Windows servers

Easy to use

- Easy to configure
- Actual use requires little training
- Powerful engine
 - Version tracking to record the history of documents
 - Searchable information to identify a document
 - Document publishing control, including publishing to specific audiences
 - Document approval routing

Cons

Extra firewall is necessary for remote access

Must have Windows Server 2003



SharePoint

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Data Input



Storage



SharePoint + SQL

SharePoint server uses SQL to write and retrieve data



Storage Area Network

Documents stored locally on the server. More space available with SANs.



Electronic job docs may be backed up online

Online Backup



Data Retrieval











SharePoint Server

Documents available in electronic job folders, on a website visible to the VPN only

End User

From SharePoint, employees can:

- •Print docs
- •Send docs as email
- •Annotate docs on the server
- •More?



Obstacles

Difficulty Coordinating with Company

- Delays in project progress
- Delays in interviews
- Information of current resources not clear

Interviews

- Large amount of information gathered from employee interviews
- Employees more concerned with wants than needs

Majority of the team not familiar with programming

Creating a customized database requires a sizable amount of programming



Results

Working SharePoint prototype

- Easy to use and configure
- Fulfills search criterion, organization requirements, and customizable
- Storage
 - > SANs
- Backup
 - MozyPro
- Security and off-site access
 - CISCO Firewall



- Scanner-printer hardware
 - Several recommendations



Looking Ahead

Test functionality of system
 Train employees to use SharePoint
 Implement wants into system
 Email alerts
 Bar Codes/RFID

<u>Keep Abrasive Form HAPPY</u> :]



Acknowledgements

Greg Zilinsky, Manager of Strategic Programs, Abrasive-Form Inc.

Mark Sami, IIT Alumni and SharePoint Consultant

Questions

