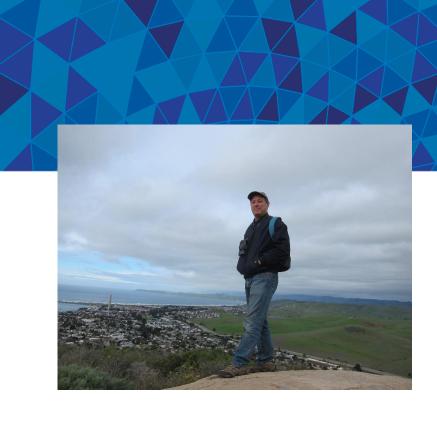


presents

Building a Successful Request Management System in SharePoint and Office 365



Scott Restivo

President & CEO Crow Canyon Software scott.restivo@crowcanyon.com





crowcanyon.com

Helping businesses succeed

with Office 365 & SharePoint!



BUSINESS APPLICATIONS



NITRO STUDIO™



CUSTOM SOLUTIONS



BUSINESS APPLICATIONS

- •IT Help Desk
- Asset Management
- Customer Service
- Facilities Requests
- Equipment Tracking
- HR Requests

- Security Access Requests
- Onboarding
- Contract Renewals
- Document Management
- Marketing
- Purchasing Requests



Application Creation Platform for SharePoint & Office 365

- Suite of enhancements to SharePoint and Office 365.
- Quick development of flexible, easily deployed applications.
- Build simple or complex applications that meet specific needs.



WEBINARS

NITRO Forms and the Power Portal

Wed. May 30, 11 am PDT / 2 pm EDT

NITRO Workflows and Custom Actions

Thurs. May 31, 11 am PDT / 2 pm EDT

https://www.crowcanyon.com/webinars

Issue

Question

How To

Inquiry

Leave

Access

Hardware

Purchase

Fix

Update

Order

Request Management using SharePoint & Office 365

- IT
- Trouble Tickets, Hardware Requests, Change Requests
- Asset Maintenance, Inventory Tracking, Access requests
- Facilities
 - Fixes, Moves, Equipment management
- Contract/Document Management
 - Creation, Updates, Renewals
- Human Resources
 - Onboarding, Leave Requests, Benefit updates, Travel requests
- Purchasing
 - Requesting, ordering, receiving, deploying

... and on and on and on!



Type of Request

- Technical Issue, Bug, Problem, Complaint
 - Needs immediate attention
- Information Request, How-to Question
 - Automation with KB, FAQs, Canned Responses
- Forms-based, Process-driven
 - Set of required information, resolved by pre-determined process



Who is submitting request?

INTERNAL

Employee

Staff

Manager

EXTERNAL

Customer

Client

Member

Student

Partner





How is request submitted?



Phone



Email



Web Form



SharePoint



Portal



When is Request needed?

- Response Due
- Due Date
- Completion Date
- Priority
- Importance
- SLAs





Categorization of Request

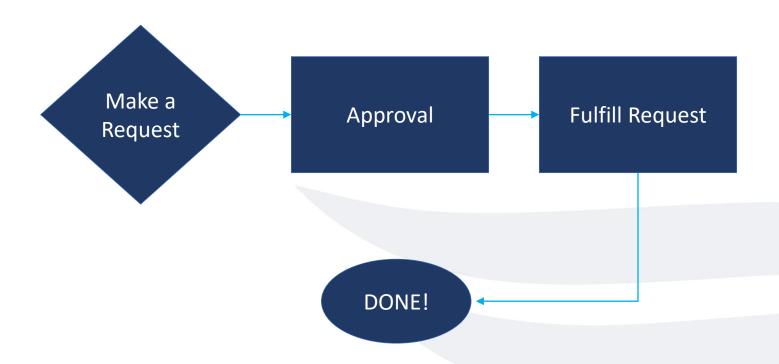
- By Issue: one, two, or three levels
 - Category, Type, Issue
- By Department
- By Location
- By Product
- By any other useful criteria!



- Type of Request
- Who is submitting Request?
- How is it submitted?
- When is it needed?
- Categorization of Request

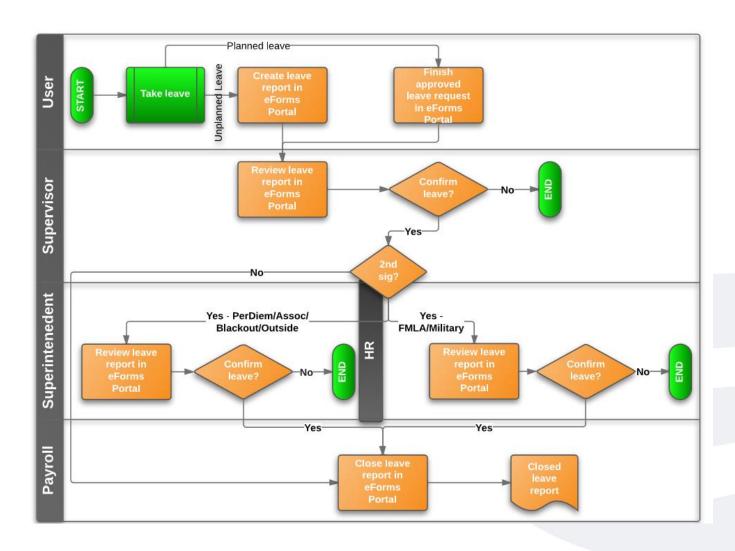


Request Management-simple workflow



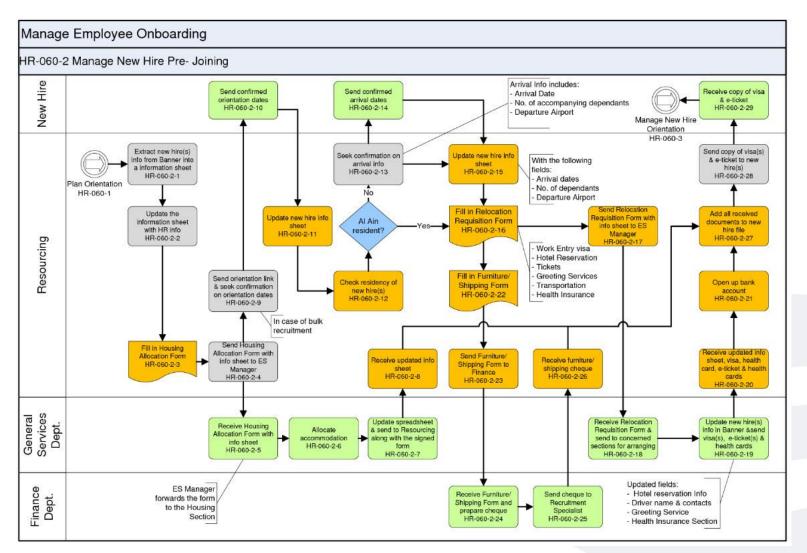


Common workflow – Leave Request





More Complex Workflow - Onboarding





Some ways (other than SharePoint) to manage requests



EMAIL/SPREADSHEETS

Limited collaboration

No tracking & reporting

Lack of accountability

Limited access & scalability



LEGACY SYSTEMS

Outdated technology

Discontinued support



PAPER FORMS

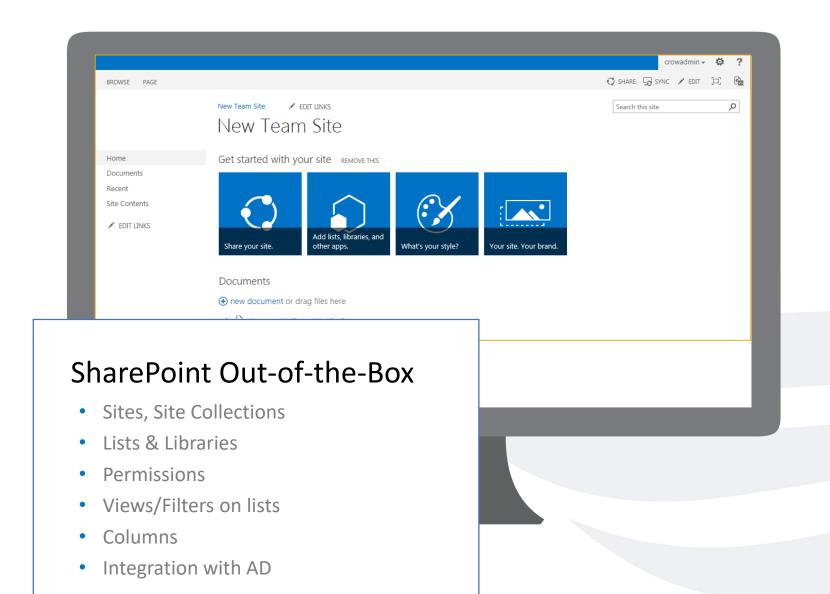
Manual processing Non-searchable Hard to revise



ENTERPRISE SOFTWARE

Expensive
Feature overkill
Lack of customization







But SharePoint Needs More

What about:

- Forms?
- Workflows?
- Custom columns?
- Email sync?
- Reporting?
- Database integration?





Custom Development using outside firm

- Means hiring company skilled in development and project management
- Usually involves RFP's, vendor selection, contract negotiation.
- Appropriate for specialized projects

Concerns/Issues

- Finding reliable, known firm
- Keeping costs under control
- Keeping project on track
- Change management



Third-Party Applications

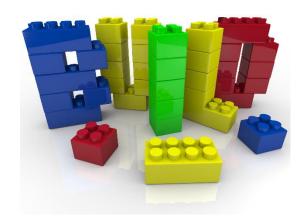
- Fully supported
- Regular upgrades
- QA / Tested
- Quick to implement
- "Battle-hardened" mature, in use at multiple locations
- Configurable without coding using utilities built into the application

Concerns/Issues

- Reliable, known vendor?
- Reasonable support/maintenance fees?
- Is there a suitable application out there?
- Time and effort of trials and selection



Build-Your-Own using components/platforms

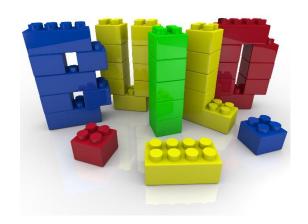


SharePoint/Office 365 native tools

- Standard lists and libraries
- SharePoint Workflows
- SharePoint Designer
- Visual Studio
- InfoPath Forms
- Microsoft Flow/Power Apps



Build-Your-Own using components/platforms



- Apps & Web Parts
 - available in Office Store and from vendors

Platforms (Nintex, K2, NITRO Studio)



Build-Your-Own using components/platforms

- SharePoint/Office 365 native capabilities
 - Standard lists and libraries
 - SharePoint Workflows
 - SharePoint Designer
 - Visual Studio
 - InfoPath Forms
 - Microsoft Flow/Power Apps
- Apps & Web Parts (available in Office Store and from vendors)
- Platforms (Nintex, K2, NITRO Studio)

Concerns/Issues

- Need to know the tools and how to use them
- More important: need to know how to design and build an application.
- Costs in time and fees
- Often requires hiring a consultant or developer
- Support is an issue when that person or group moves on



Three Pillars of Application Design

Crow Canyon's Approach



Three Pillars of Application Design



UI/UX

Engage & Empower
Users



Workflow & Business
Processes

Streamline & Automate
Processes



Reporting

Drive Continuous Improvement



Why is UI/UX important?



DRIVE USER
ADOPTION and
ENGAGE USERS



POWER UP USER ADOPTION WITH:

- Dynamic Forms
- Custom Columns
- Application Portals
- Configurable Workspaces
- Dashboards
- Branding
- Responsive Design

- Ease-of-use
- Simplicity
- Information at your fingertips
- Attractive visual elements



UI drives Workflows and Reporting

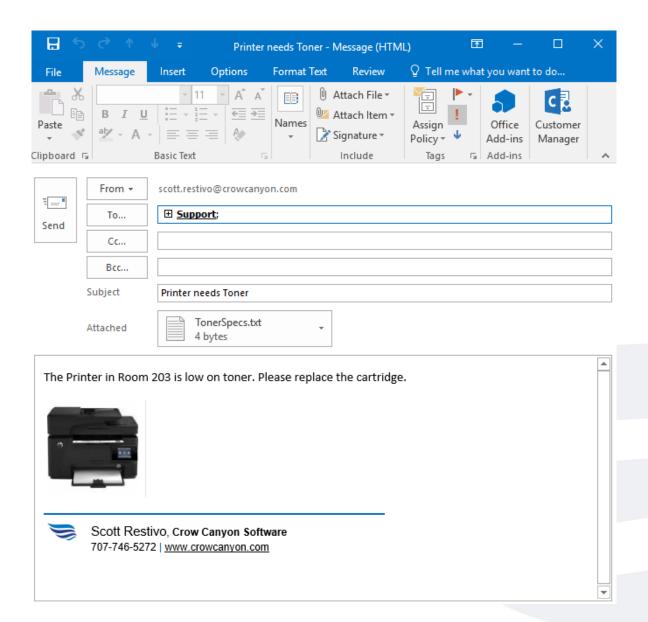
Type of Request? Who is submitting it? How is it submitted? When is it needed? Categorization of Request?

Crucial to:

- -- Assign and route request
- -- Set priority and due date
- -- Determine if approvals are needed
- -- Set up sub-tasks, if needed
- -- Reporting



Email



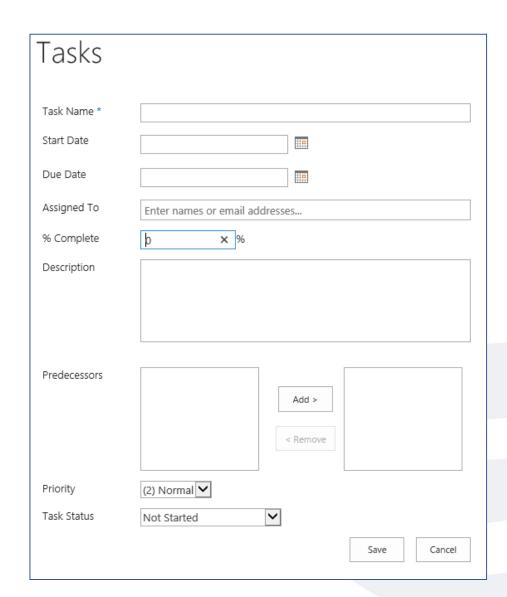


Web Form

SharePoint Support Tickets Please check our Online Knowledge Base before sending in a ticket. Thank you! Support Ticket Submit Ticket Name * **Email Support** support@crowcanyon.com Call Support Company * 925 - 478- 3110 Phone * Email * Issue, Problem, Question * **SUBMIT**

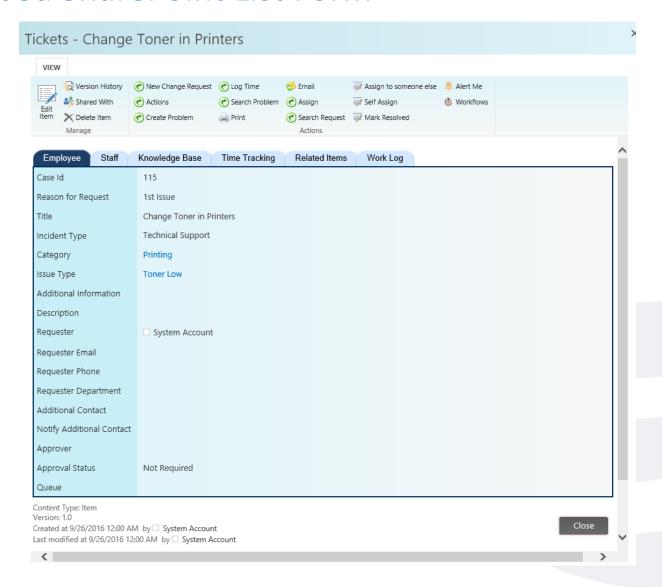


SharePoint Form





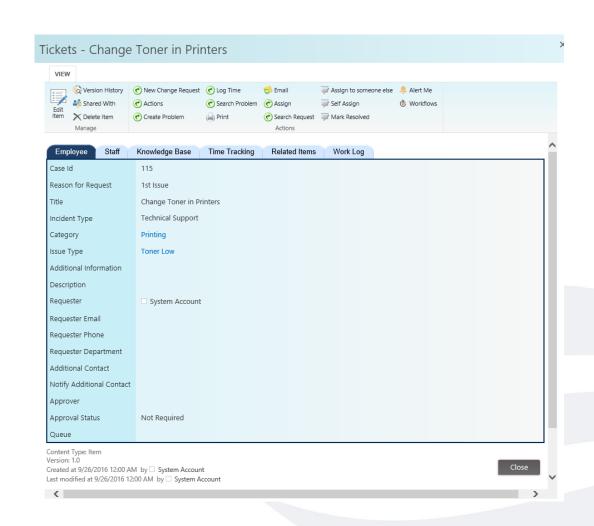
Tabbed SharePoint List Form





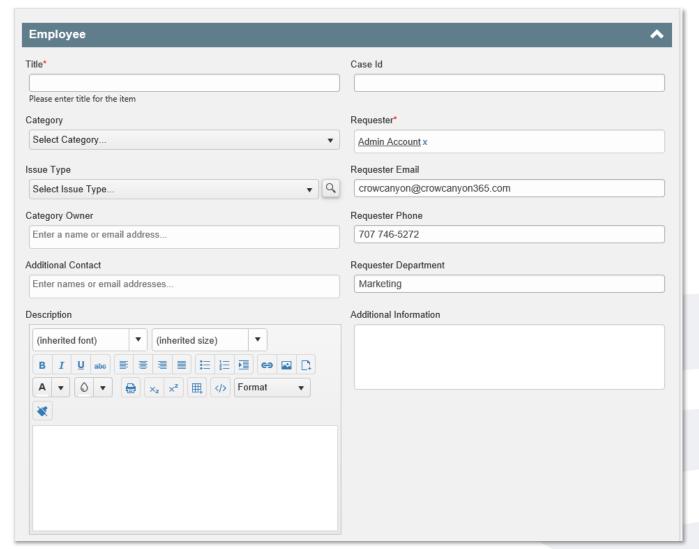
Tabbed SharePoint List Form

- Tabs / Sections
- Dynamic
- Tab permissions
- Column permissions
- Mandatory fields
- Field validation
- Custom fields
- Related Items
- Database Integration



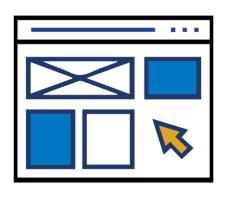


Custom Form using Forms Designer tool





Good Forms

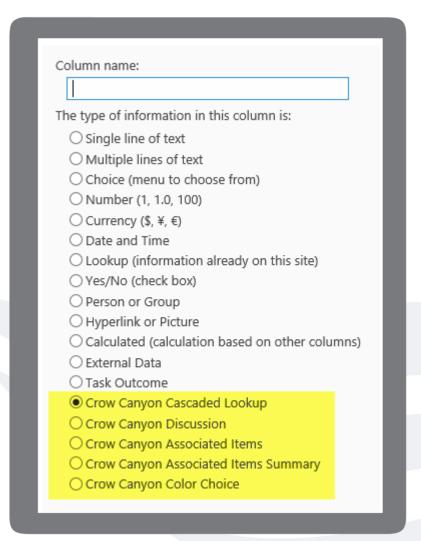


- Are Interactive
- Are Dynamic (show/hide fields)
- Validate inputs / Have required fields
- Pull information from other data sources
- Initiate workflows & business processes



Custom Columns

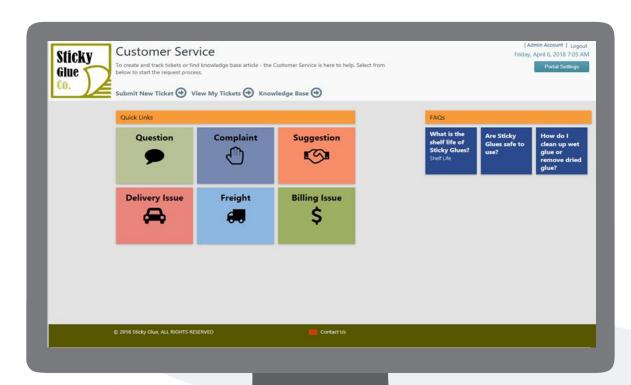
- Cascaded Lookup
- Cross-site Lookup
- Color Choice
- Associated Items
- Discussion Column
- User Profile Info (AD)
- Database Connections





Portals

- Submit or view requests
- Search FAQs
- Configurable
- Secure
- One or more sites
- For Customers or Employees
- Can drive self-service







Customer Service

| Admin Account | Logout Friday, April 6, 2018 7:05 AM

Portal Settings

To create and track tickets or find knowledge base article - the Customer Service is here to help. Select from below to start the request process.

Submit New Ticket View My Tickets Knowledge Base





FAQs What is the How do I Are Sticky shelf life of Glues safe to clean up wet Sticky Glues? glue or use? Shelf Life remove dried glue?

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Contact Us



Mobile / Responsive Design





- Growing use of mobile devices
- Flexible, anywhere access to data

Three Pillars of Application Design



UI/UX



Streamline & Automate
Processes



Reporting



Workflows, Workflows

- Request Creation
 - Auto-reply, Auto-assign, Notify staff, Create Sub-tasks, Approvals
- Request Progression
 - Re-assign, Escalate, Update, Logging
 - Sub-tasks, Linked Items, Email History, Time Tracking
- Request Completion
 - Ask user to verify, Surveys



Workflow functions

- Routing
- Approvals
- Alerts/Notifications
- Service Level Agreements
- Auto Assignment/Escalation

- Recurring Items Tickets/Tasks
- Sub-tasks & linked Items
- Printing of lists or items
- Email synchronization
- Database integration



What triggers a workflow?

- Item created
- Item modified
- Item deleted
- Date/Time field on Item

- Absolute time
- Manual kickoff (button on form or ribbon)
- Other actions can trigger workflow

Could also be based on meeting certain conditions

Field(s) equals/not equals/contains/is greater or less than/begins with/etc.

Multiple Conditions may apply



What actions take place? In what order? Are they dependent on each other?

- Create Item
- Delete Item
- Update Item
- Send Email
- Print Item

- Run Web services
- Run Stored Procedures
- Update database
- Run another workflow



For example:

When an Item is created:

If the Priority is "High" and the Category is "Network":

Notify Director

Set Due Date to 4 hours

Assign to Team One

TRIGGER: When an Item is created:

CONDITIONS: If the Priority is "High" and the Category is "Network":

ACTIONS:

Notify Director [Send Email action]

Set Due Date to 4 hours [Update Item action]

Assign to Team One [Update Item action]

-- Notify Team One [Another workflow kicked off by this action]



Mapping out the process

Important to understand the process and have it mapped out—before building the workflow.



What business need(s) are you trying to solve?

What is the current work process -- highlights, pain points, bottlenecks?

- What key steps in the current process can be automated using SharePoint.
- What key pain points and bottlenecks can the SharePoint solution overcome?
- What "soul-crushing" work can be eliminated or automated?
- As a rough estimate, how much time can be shaved off the existing work process? This will help determine a return on investment (ROI).

What would users/business owners like to see happen? Ideally, how should things work?

What improvements can SharePoint workflows/automation bring?

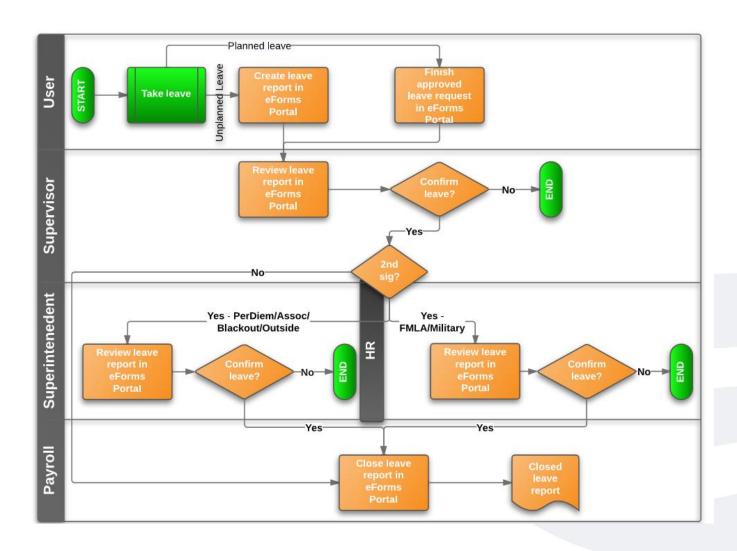


Mapping out the process - diagrams/presentations

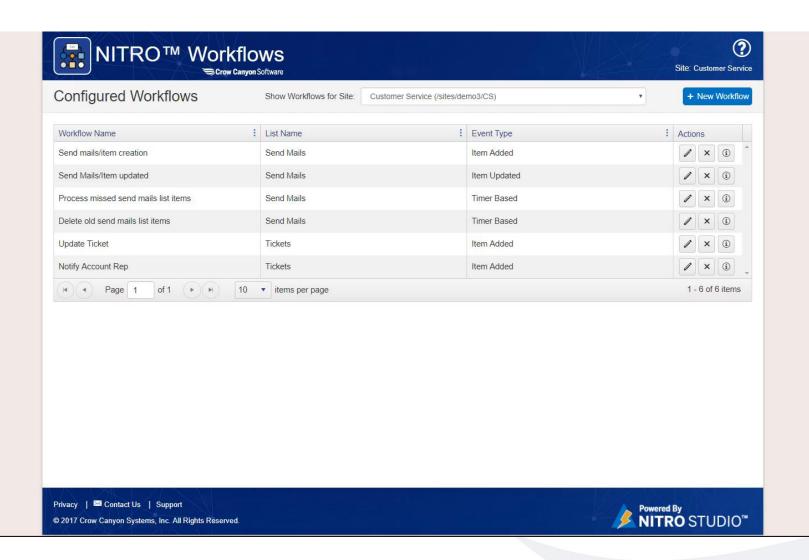
- Pen and paper
- Word or Excel
- Whiteboard for simple presentations
- Mockups in the tools themselves
 - Create some proof-of-concepts
- Wireframes for more elaborate workflows and for executive sign-off
 - Microsoft Visio
 - Microsoft PowerPoint
 - Balsamiq (<u>http://www.balsamiq.com/</u>)
 - Many other workflow design tools



Common workflow – Leave Request









Three Pillars of Application Design



UI/UX



Workflow & Business Processes



Drive Continuous Improvement



Why are Reporting & Analytics important?

Key business questions:

- Are we meeting our service level goals?
- Is the staff performing optimally?
- What are the most common issues?
- What is blocking better performance?
- How can we improve?

Tools that help answer these questions:

- Report Center
- Dashboards
- Tiles & Dials
- Data Integrations (Excel, SSRS)
- Power BI



Reporting & Analytics: Continuous Cycle of Improvement



Find root causes and fix them:

- Hardware
- Software
- Procedures
- People



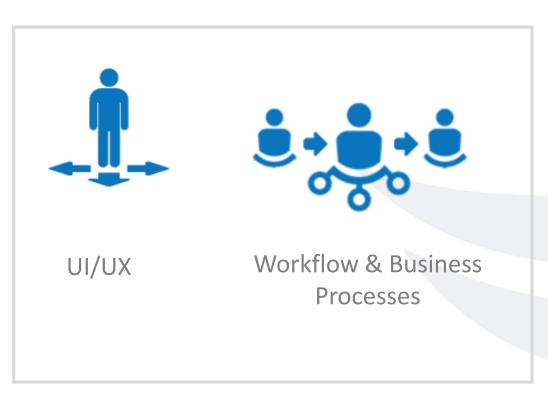
Good Data = Good Reports



Good Reports = Good Decisions



Three Pillars of Application Design







Where does the data come from?

- Forms users or customers fill in
- Outside sources -- Active Directory, databases
- System events -- Time created, modified
- Worker-initiated events reassign, escalate, closed
- Worker input change fields, add to Log
- Surveys of users

Be sure to gather the data points you need for reporting.



Classic Questions: who, what, when, where, how

The tools we describe later can generate many, many types of reports. But these questions need to be asked first:

- WHO should be able to view them?
- WHAT reports do you need?
- WHEN are the reports needed?
- WHERE should they be viewed?
- HOW should they be displayed?



TYPES OF REPORTS

- Immediate, real-time views
 - Dashboards
 - List Views
- Service Desk Staff Configurable workspaces
- Historical views, trends
 - Charts pie, line, bar, column, etc.
 - Tables
 - Graphs
 - Comparison

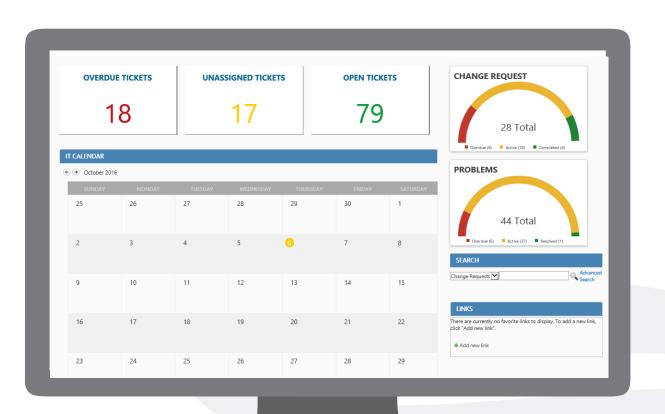




Dashboards

Current information shown graphically

- Visual displays
- Counters
- Gauges
- Meters
- Drill-down





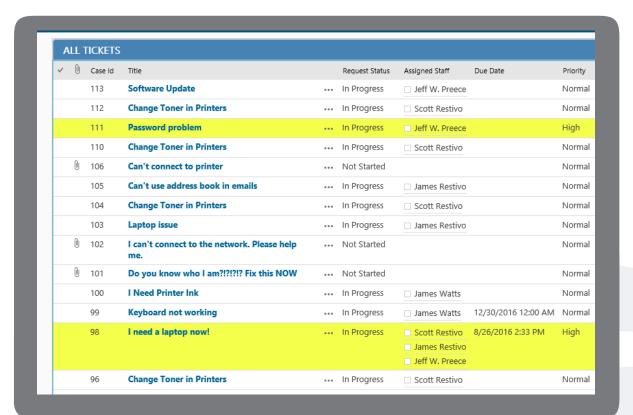
List Views

Features of SharePoint lists

- Filtering
- Grouping
- Sorting
- Choice of Views

Enhancement of lists

- Highlighting
- Color Indicators
- Bolding

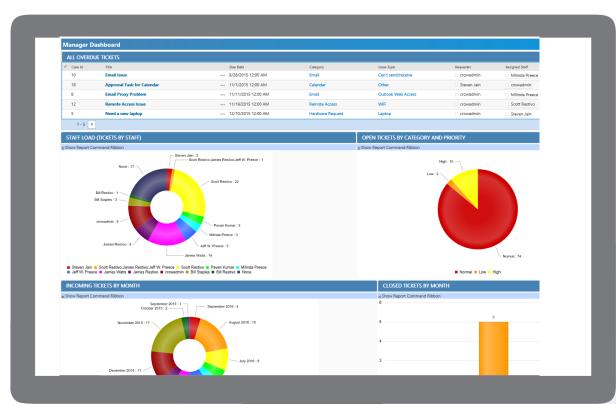




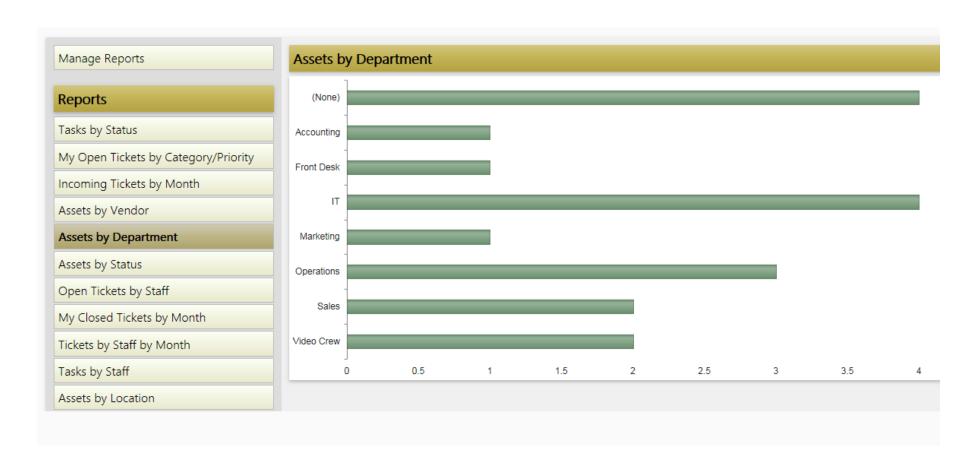


Configurable Workspaces

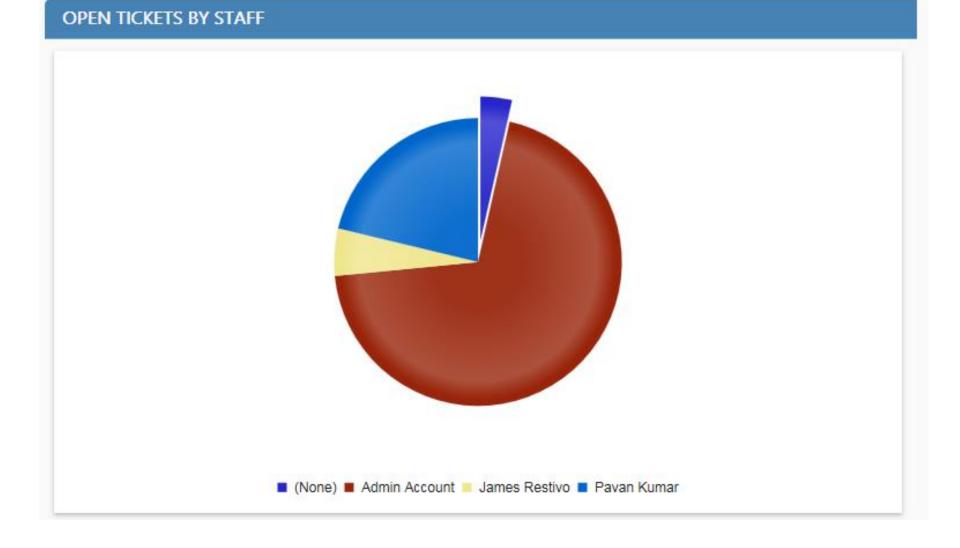
- Role-based
- Easy to configure
- Many web parts available
- Visual displays
- Pertinent information is readily available







Example of a Report Center in Office 365

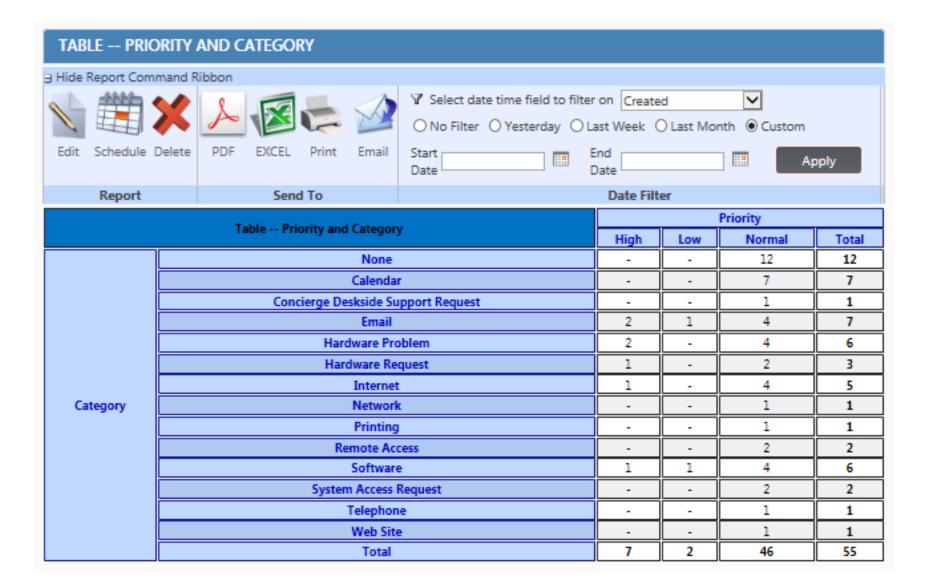


Report on Important Stats

Example: Open tickets by staff



Dashboard pages bring visibility



Tables



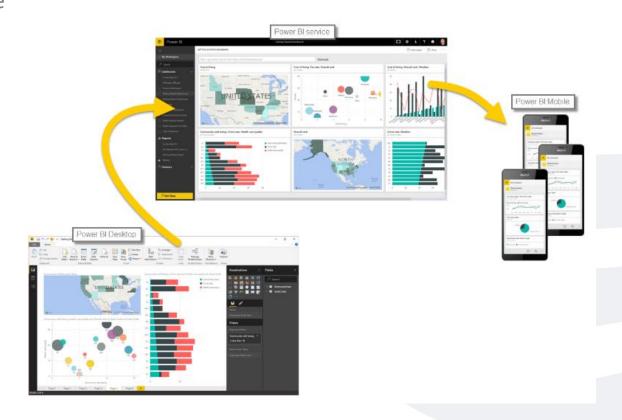
Tiles & Dials



Power BI

Components of Power BI

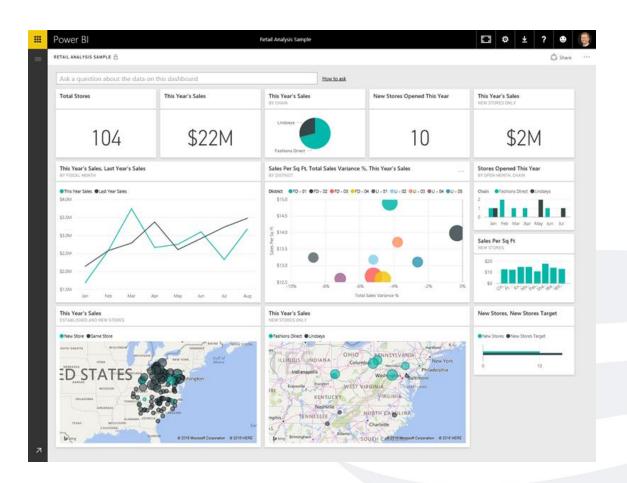
- Power BI Desktop
- Power BI Service
- Power BI Mobile





Building Blocks of Power Bl

- Visualizations
- Datasets
- Reports
- Dashboards
- Tiles





Three Pillars of Application Design



- Forms Manager
- Dynamic Forms
- Custom Columns
- Employee & Customer Portals
- Configurable Workspaces
- Responsive Design
- Branding



Workflow & Business Processes

- Workflow Manager
- Ticket Routing
- Alerts/Notifications
- Service Level Agreements
- Auto Assignment/Escalation
- Recurring Tickets/Tasks
- Sub-tasks & Linked Items
- Print Manager
- Email Synchronization
- Database Integration



Reporting

- Report Center
- Dashboards
- Tiles & Dials
- Data Integration
- PowerBI



THANK YOU! Q & A





Stay in Touch



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