GLOBAL POWER PLATFORM BOOTCAMP

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Build an End to End Solution using the Power Automate Mobile App, Power Apps and Microsoft Teams

Noorez Khamis

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KingswaySoft

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REZ KHAMIS

Azure & Office 365

Cloud Integration Solutions

Software Development

Enterprise Architecture

Business Process Modeling

Social & Collaboration

Document & Records Management

Expertise

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VP Technology

- 9 x Microsoft MVP in O365 (Teams & SharePoint)
- Information Management Consultant
- Microsoft Cloud Solutions Architect
- Microsoft Conference Speaker
- Microsoft Office 365 Trainer

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experts in ◻ Office 365 and △ Azure integration

Session Objectives & Agenda

Learn how you can use Microsoft 365 Power Platform services to empower teamwork and solve business automation challenges in your organization

- Start with describing the scenario
- Demos, Demos, Demos!

SharePoint Online + Power Automate + PowerApps + Microsoft Teams

Chat-based workspace in Office 365

Chat for today's teams

Communicate in the moment and keep everyone in the know

A hub for teamwork

Give your team quick access to information they need right in Office 365

Customizable for each team

Tailor your workspace to include content and capabilities your team needs everyday

Security teams trust

Get the enterprise-level security and compliance features you expect from Office 365

Extensible platform

Build apps with a rich set of capabilities to enable these higher-performing teams

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Northwind Traders

General

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Development

Marketing

Project Management

Website

32 more channels

Contoso

Engineering

General

Fun stuff

Marketing

Weekly Specials

4 more channels

More

Activity

Chat

Teams

Meetings

Files

Apps

Feedback

Add team

Northwind Traders > **Development** ⭐ ...

Conversations   Files   Notes   Feature Backlog   Deployments   Pull Requests   +

↩ Reply

Aadi Kapoor   9:05 am

Daniela, I've made some changes to the client APIs. Can you do a quick verification text to make sure I didn't break anything? Thank you thank you!

5 replies from Ivan, Kadji, and Keiko

Kayo Miwa   10:15 am

My test team did a full test pass. Looks like we have some bugs in the international markets. I'll kick off a build with the fixes. Should be super simple.

↩ Reply

Cecily De Crum   10:30 am

This is the latest bug breakdown. Please send you feedback by **5pm Today!**

📊 Bug_Report_Breakdown.xlsx   ...

↩ Reply

Will Little   10:45 am

Team, we will take today's arch session to talk about the Graph layer for the app obj model

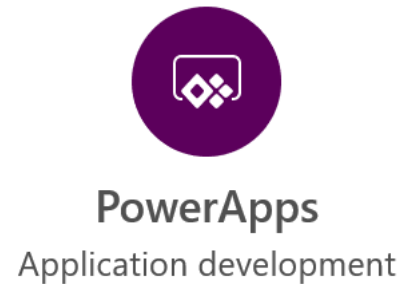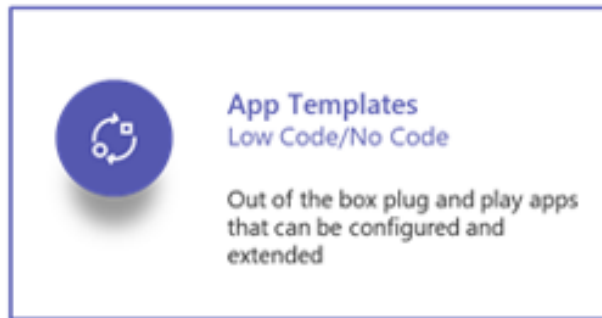14 replies from Babek, Daphne, and Marie

Babek Shammas   10:50 am

One of the things we were planning to do - move objects (with all the properties) defined for startup and reply chain to nugget, so that these classes can be shared - we will go ahead and do this and then we can decide to extend specific classes?

↩ Reply

Start a new conversation

Develop MS Teams applications, where do I start?

- Solution Accelerators for MS Teams Developers
  - App Templates
  - **Power Platform**
  - SPFx

App Templates
Low Code/No Code

Out of the box plug and play apps that can be configured and extended

PowerApps
Application development

Power Automate
Workflow automation

SPFx

Microsoft Power Platform

One **low-code** platform that spans Office 365, Dynamics 365, Azure and standalone applications.

Easily build apps with a full featured low-code / no-code platform

Connect to your existing data with 230+ pre-built connectors and custom connectors

Store your data in the Common Data Service

Integrated with Office 365, Azure, Dynamics 365, and Power BI

Strong enterprise governance & security

Pro-dev extensibility

Power BI

Business analytics

PowerApps

Application development

Power Automate

Workflow automation

Common Data Service

Data connectors

AI Builder

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Every Power App is a Teams App!

Benefits:

- PowerApps are available in Teams where critical work and collaboration already happen.

- IT admins can distribute PowerApps in a scalable manner by publishing them to the tenant app catalog in Teams.

- Front line workers can access PowerApps in Teams mobile.

Today's Walkthrough – Accident Claim Assessments

- Creo Insurance has adjusters visiting customers on-site to evaluate damage that has occurred to their vehicles

- The adjuster needs to take picture(s) of the damage that has occurred, review with management and possibly start a discussion with the his/her team to begin the internal claim assessment process
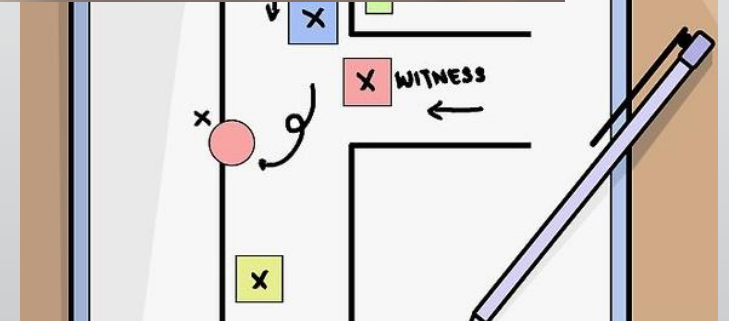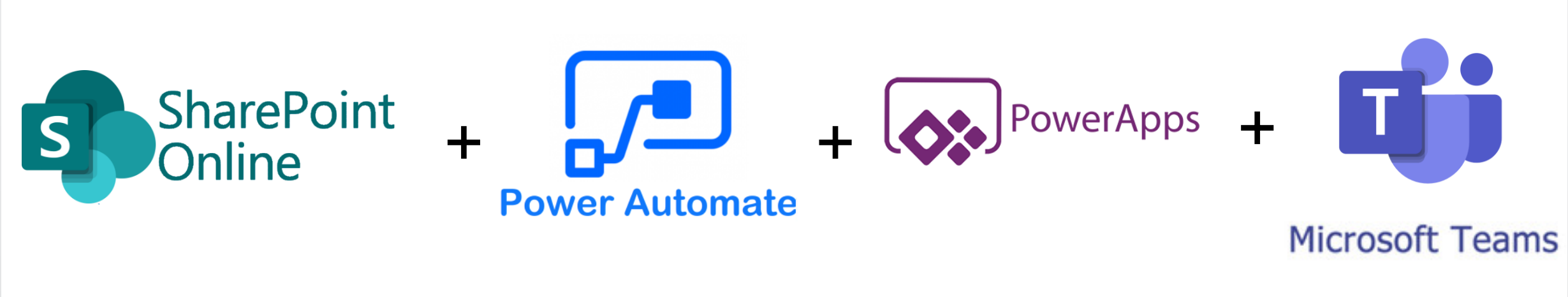
Send main picture of accident from mobile → Manager reviews accident picture → Manager decides if worthy of a further claim discussion → Full team collaborates on claim and all pictures

Mapping Process Flow to Technology

SharePoint Online + **Power Automate** + **PowerApps** + **Microsoft Teams**

Step 1
Data source
- SharePoint Library
- Create Metadata

Step 2
Mobile
- Flow Button
- Picture
- Add Metadata

Step 3
Review
- Power App
- Vet out accident picture
- Create Teams Discussion Flow

Step 4
Teamwork
- Conversations
- Evaluate
- Document Management

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Step 0 – Setup

- Open up the following apps in your browser:
  - SharePoint site
  - PowerApps
  - Power Automate
  - Teams

Step 1 – Create the data source

- Open SharePoint Online from your existing MS Team

- From "Add an App", create an "Accident Claim Photos" document library

- Ensure the following metadata in the list:
    - *Name [default] – Single line of text – (i.e. Customer Number – 3446336)*
    - License plate - Single line of text – (i.e. BMST 446)
    - Vehicle - Single line of text (i.e. 2019 BMW 335i)
    - Accident Description - Multiple lines of text – (i.e. "hit from behind on highway 400")

Step 2 – Create the MS Flow from your mobile phone

Power Automate

- Download and install the MS Flow app on your iPhone or android and open it
- Create a new "Mobile Button Flow" from "Blank" in Flows tab and name it "**Accident claim photo upload**"
- Manually Trigger a flow
  - Add **Customer Number**, **License Plate**, **Vehicle**, **Accident Description** & **File** "inputs" to Flow Button
- Create file
  - Add "Create file" SharePoint action and manually enter **Site address** (custom value), **Library Path** (i.e. Accident Photos), **File name** (i.e. *License plate-Timestamp.jpg*), **File Content** (i.e. from button input)
- Update file properties
  - Add "Update file properties" SharePoint action and manually enter **Site address** (custom value), **Library Path** (i.e. Accident Photos), **Id** (i.e. ItemId from Create file), **Title** (i.e. Customer Number from button input), **License Plate** (i.e. from button input), **Vehicle** (i.e. from button input), **Accident Description** (i.e. from button input)

Step 3 – Create the PowerApp

PowerApps

- Create a new Canvas SharePoint Phone Layout PowerApp by "Starting from data"
  - Enter the Site URL and type in the name of the library (i.e. Accident Photos) when asked to choose the list
- BrowseScreen1
  - Customize BroweGallery1 Layout to have a preview of the image, set the image to *ThisItem.'Link to item'*, set to ImagePosition.Fill and add labels for **Customer No** (title), **Created**, **Adjuster** (Created By.DisplayName) & **License Plate**
- DetailsScreen1
  - Customize DetailsScreen1 Layout to have 2 column layout, a linked image from Media gallery (*BrowseGallery1.Selected.'Link to item'*)
  - Add a "Create a Claim Discussion Channel" button with Flow to create channel:
    - Under Action, Create a new PowerApps button Power Automate called "**Accident Photos Claim Channel Discussion Flow**"
    - Add MS Teams *Create Channel* action with the team and display name "**Asked from PowerApps**"
    - Add MS Teams *Post a message* with team and channel pointing to previous created channel ID, add a description of "*This claim might have some complexities, let's have some more discussions on it. Please post all photos in the channel Files section*"
  - In the PowerApp, add the new Flow and add a unique parameter i.e. CreateaClaimDiscussionChannelFlow.Run(BrowseGallery1.Selected.ID & "-" & BrowseGallery1.Selected.Title)
- Save and Publish the Power App – "**Accident Photos PowerApp**

Step 4 – Add the PowerApp to Teams

- Open MS Teams and add the PowerApp as a tab

- Test & Run
  - Test and Run the Flow Mobile App to upload a photo and add metadata
  - Verify it gets to SharePoint
  - Verify it gets to the PowerApp in your Team
  - Verify that the Channel gets created with the message (hidden by default)
  - Upload all related Photos to the Files section in the channel

Any Questions?

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Thank You For Attending

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