



PowerApps with Flow

Swarnalata Tamanam

Swarnalata.Tamanam@valuemomentum.com

Poonam Hajare

Poonam.Hajare@valuemomentum.com



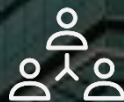
CORPORATE FACTS

Established in 2000



90+

Customers Served



2300+

Employees



23%

CAGR since inception

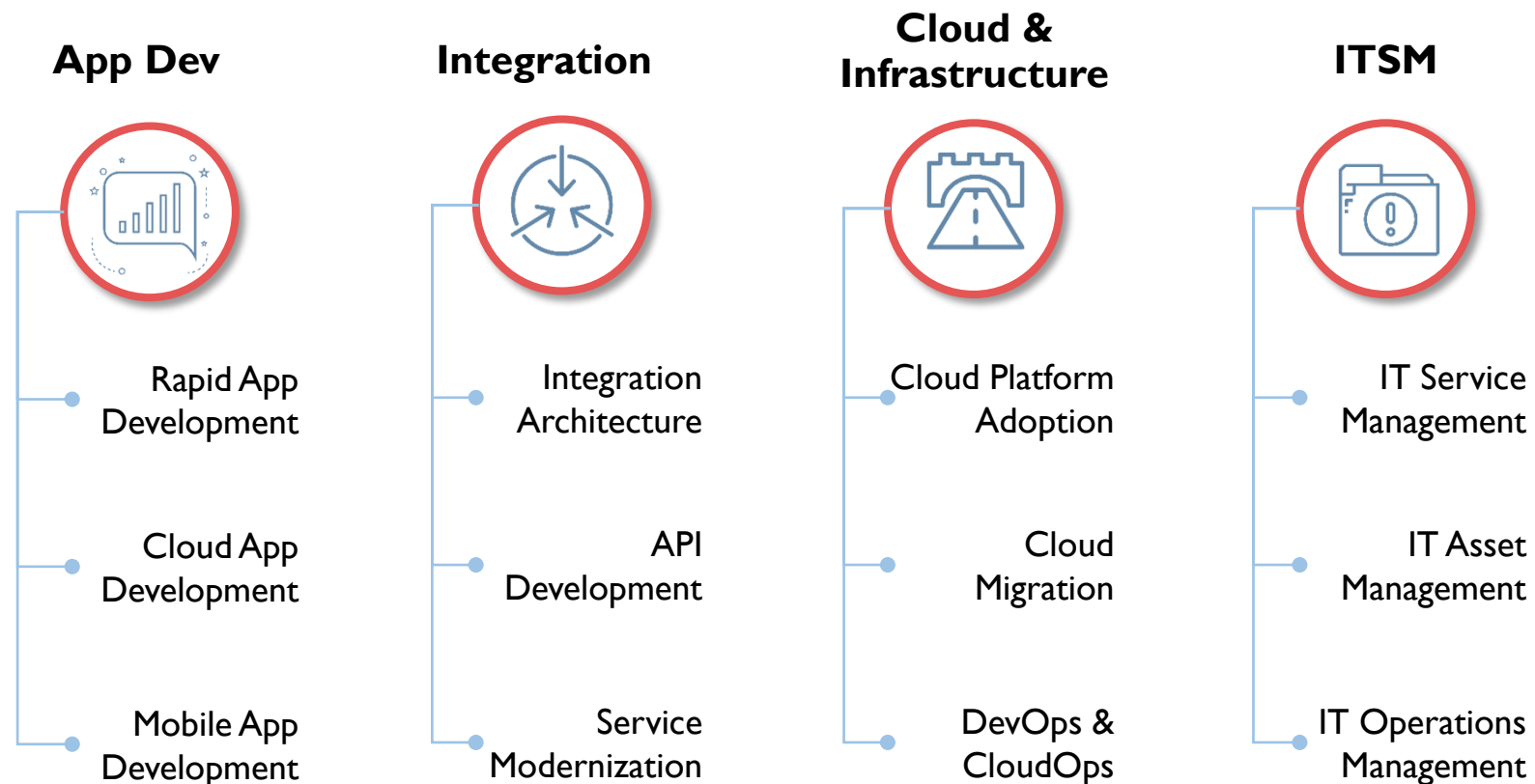


Top 10

NA P/C IT Svs Provider
by # of customers

OUR DIGITAL & CLOUD SERVICES

Customers trust ValueMomentum to rapidly deliver new experiences and stay competitive in today's digital-centric market.*



*To learn more, please log on to [ValueMomentum – Digital & Cloud Services](#)



PowerApps

Build apps in hours—not months—that easily connect to data, use Excel-like expressions to add logic, and run on the web, iOS, and Android devices.



Power BI

Unify data from many sources to create interactive, immersive dashboards and reports that provide actionable insights and drive business results.



Microsoft Flow

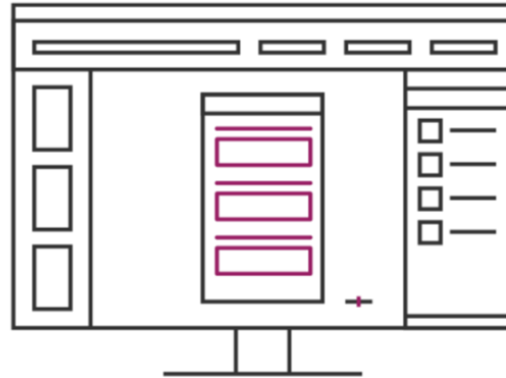
Include powerful workflow automation directly in your apps with a no-code approach that connects to hundreds of popular apps and services.

PowerApps

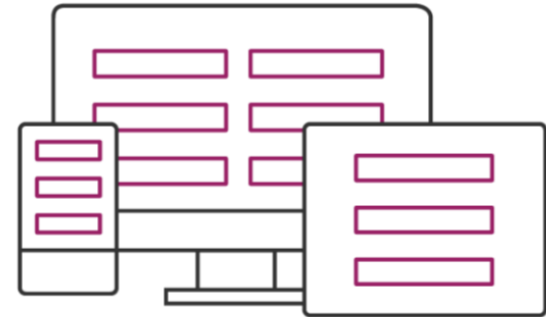
Microsoft PowerApps is a Software-as-a-service and a low code platform for creating and using custom business apps across platforms



Connect to Common Data Service or existing systems/data sources



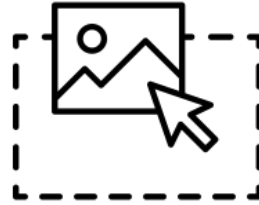
Build apps, forms, and workflows without writing code



Publish apps instantly for web and mobile



Visual Modeling



Drag-and-Drop



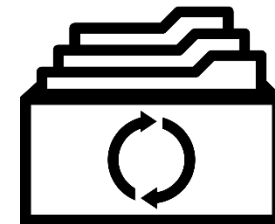
Multi-Channel



Citizen Development



**Rapid App
Development**



Easy configuration

Declarative functions

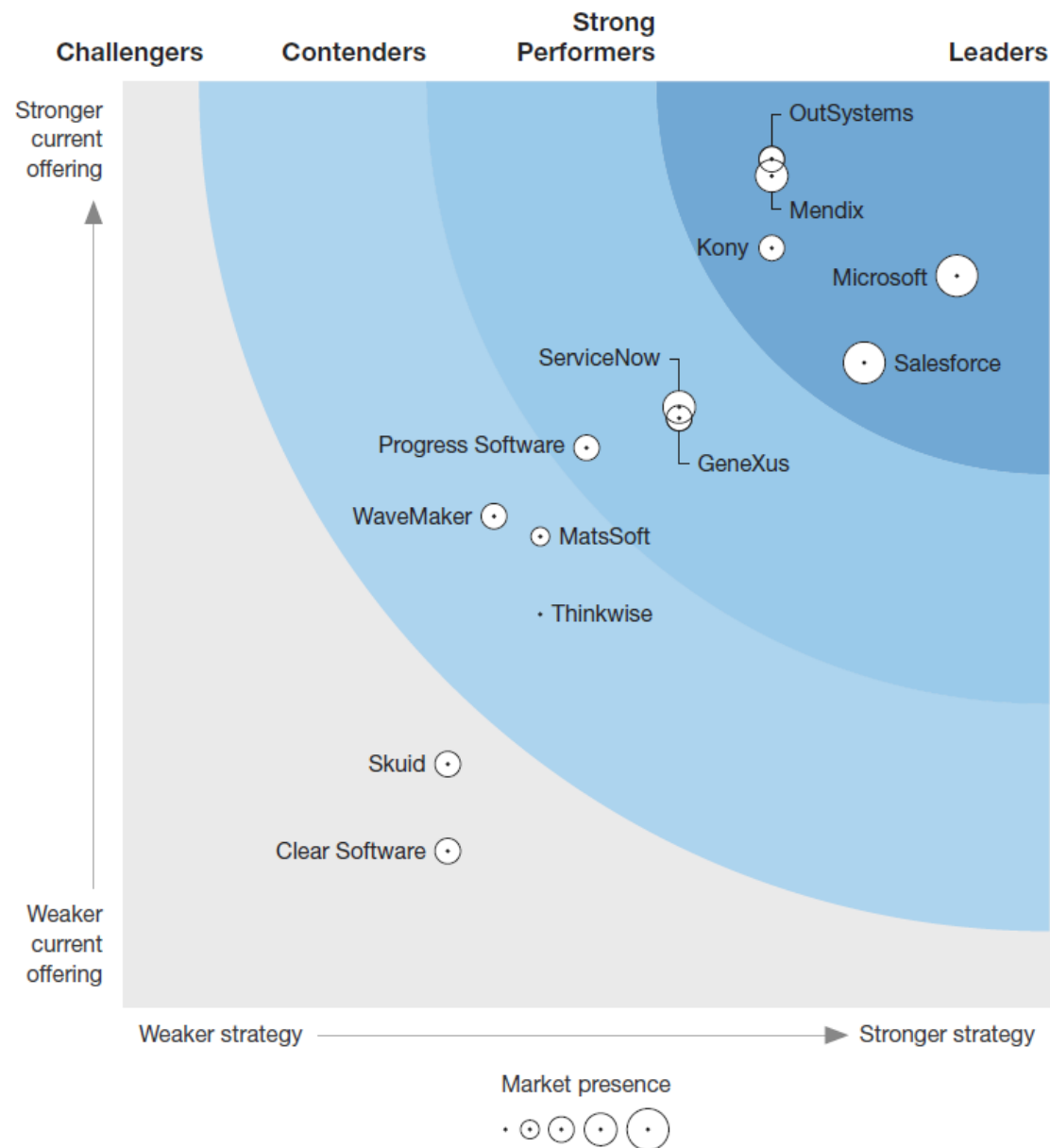
Abs	Collect	DateValue	ForAll	LookUp	Proper	Set	TimeValue
Acceleration	Color	Day	GroupBy	Lower	Radians	ShowColumns	TimeZoneOffset
Acos	ColorFade	Defaults	HashTags	Max	Rand	Shuffle	Today
Acot	ColorValue	Degrees	Hour	Mid	Refresh	Sin	Trim
AddColumns	Compass	Disable	If	Min	Remove	Sort	TrimEnds
And	Concat	Distinct	IsBlank	Minute	Removelf	SortByColumns	Ungroup
App	Concatenate	Download	IsEmpty	Mod	RenameColumns	Split	Update
Asin	Connection	DropColumns	IsMatch	Month	Replace	Sqrt	UpdateContext
Atan	Count	EditForm	IsNumeric	Navigate	Reset	StartsWith	UpdateIf
Atan2	Cos	Enable	IsToday	NewForm	ResetForm	StdevP	Upper
Average	Cot	EndsWith	Language	Not	Revert	Substitute	User
Back	CountA	Errors	Last	Now	RGBA	SubmitForm	Validate
Blank	CountIf	EncodeUrl	LastN	Or	Right	Sum	Value
Calendar	CountRows	Exit	Launch	Param	Round	Switch	VarP
Char	DataSourceInfo	Exp	Left	Parent	RoundDown	Table	ViewForm
Clear	Date	Filter	Len	Patch	RoundUp	Tan	Weekday
ClearCollect	DateAdd	Find	Ln	Pi	SaveData	Text	
Clock	DateDiff	First	LoadData	PlainText	Search	ThisItem	
Coalesce	DateTimeValue	FirstN	Location	Power	Second	Time	

Imperative functions

Abs	Collect	DateValue	ForAll	LookUp	Proper	Set	TimeValue
Acceleration	Color	Day	GroupBy	Lower	Radians	ShowColumns	TimeZoneOffset
Acos	ColorFade	Defaults	HashTags	Max	Rand	Shuffle	Today
Acot	ColorValue	Degrees	Hour	Mid	Refresh	Sin	Trim
AddColumns	Compass	Disable	If	Min	Remove	Sort	TrimEnds
And	Concat	Distinct	IsBlank	Minute	Removelf	SortByColumns	Ungroup
App	Concatenate	Download	IsEmpty	Mod	RenameColumns	Split	Update
Asin	Connection	DropColumns	IsMatch	Month	Replace	Sqrt	UpdateContext
Atan	Count	EditForm	IsNumeric	Navigate	Reset	StartsWith	Updatelf
Atan2	Cos	Enable	IsToday	NewForm	ResetForm	StdevP	Upper
Average	Cot	EndsWith	Language	Not	Revert	Substitute	User
Back	CountA	Errors	Last	Now	RGBA	SubmitForm	Validate
Blank	CountIf	EncodeUrl	LastN	Or	Right	Sum	Value
Calendar	CountRows	Exit	Launch	Param	Round	Switch	VarP
Char	DataSourceInfo	Exp	Left	Parent	RoundDown	Table	ViewForm
Clear	Date	Filter	Len	Patch	RoundUp	Tan	Weekday
ClearCollect	DateAdd	Find	Ln	Pi	SaveData	Text	
Clock	DateDiff	First	LoadData	PlainText	Search	ThisItem	
Coalesce	DateTimeValue	FirstN	Location	Power	Second	Time	

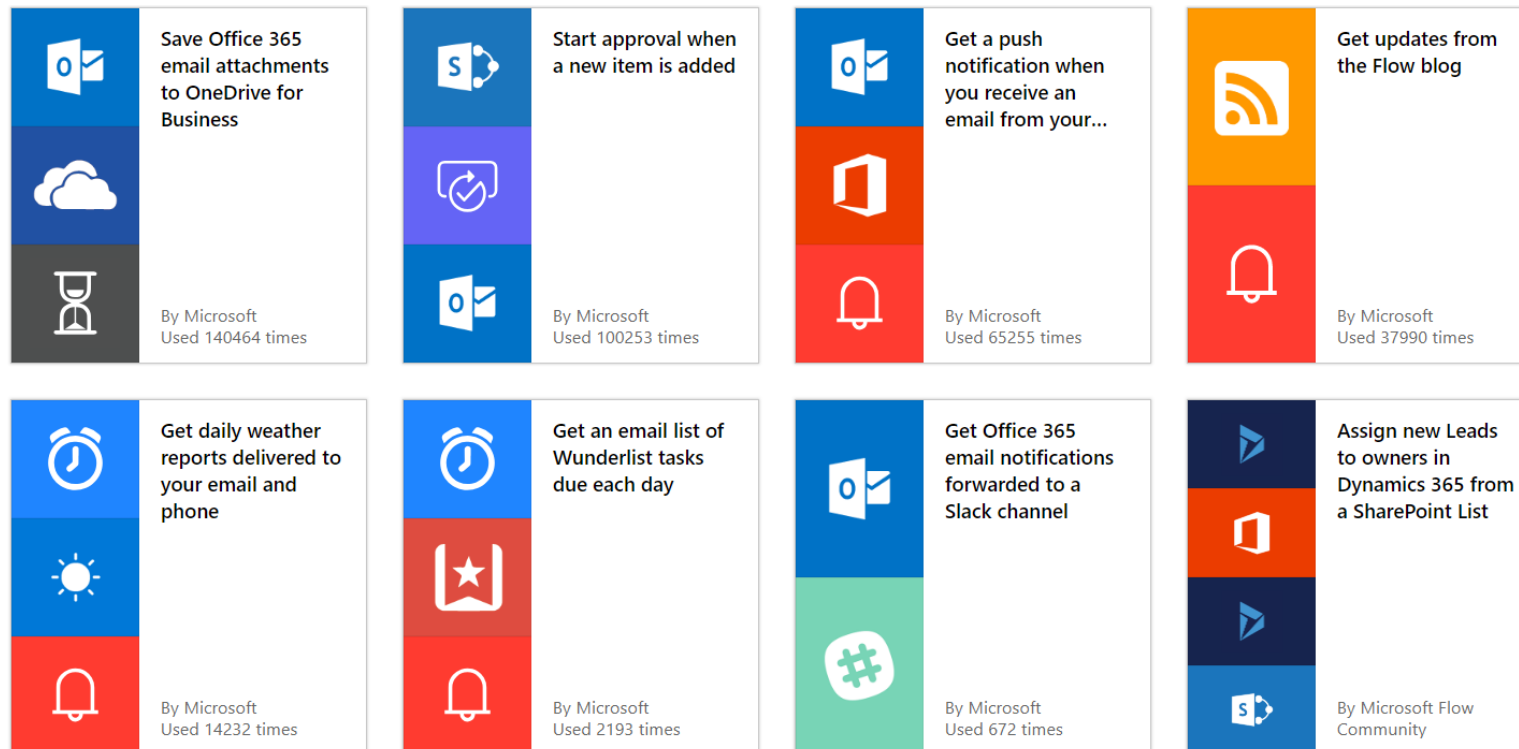
- **Common Data Service**
- **220+ data sources**
- Extend **Office 365** and **Dynamics 365**
- **Azure cloud services**
- **Enterprise-grade admin, security and governance features**

The Forrester Wave Q1 2019 for low code platforms



Flow

- Microsoft Flow is SaaS that allows employees to create and automate workflows and tasks across multiple applications and services.
- Create multistep flows, approve requests, add conditions, use on-prem data and work securely
- Quick start templates



What can you do in Flow?



Connect to data & systems you're already using; create the data you need



Create workflows using triggers & actions without code or scripts



Edit flows on web and mobile



Approve requests or manage them on web and mobile

Flow vs Logic Apps



Flow

For citizen developers, end users

Self service scenarios

Web & mobile interface

Ad-hoc, develop in production

Access Microsoft or O365 account

Deeper SharePoint integration

vs

Logic Apps

For IT professionals, integration developers

Mission critical applications

Web, code view, visual studio

Source control, ARM

Access with Azure subscription

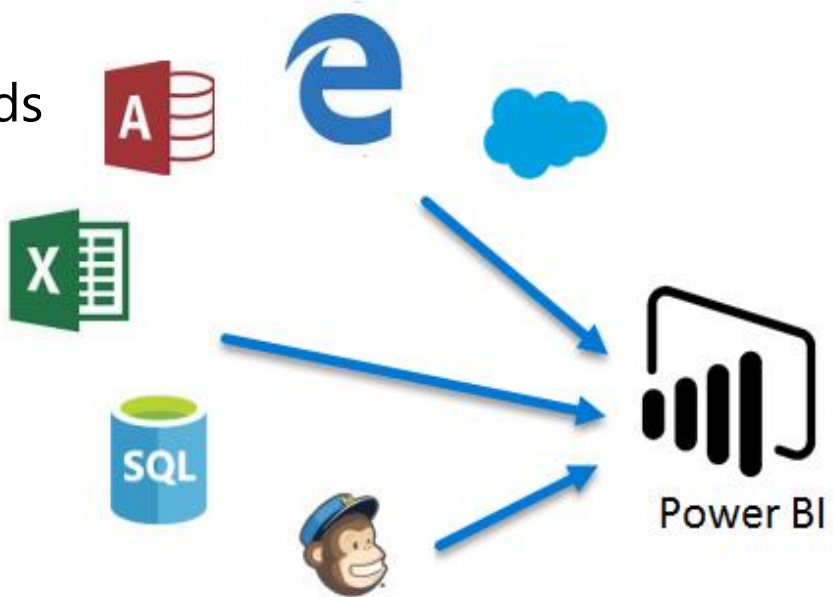
Deeper Azure integration

Power BI



Power BI is a cloud-based business analytics service that delivers insights to enable fast, informed decisions. It's major components are:

- Visualizations
- Datasets
- Reports
- Dashboards
- Tiles



Power BI – a set of three

Power BI Desktop



Power BI service



Power BI Mobile



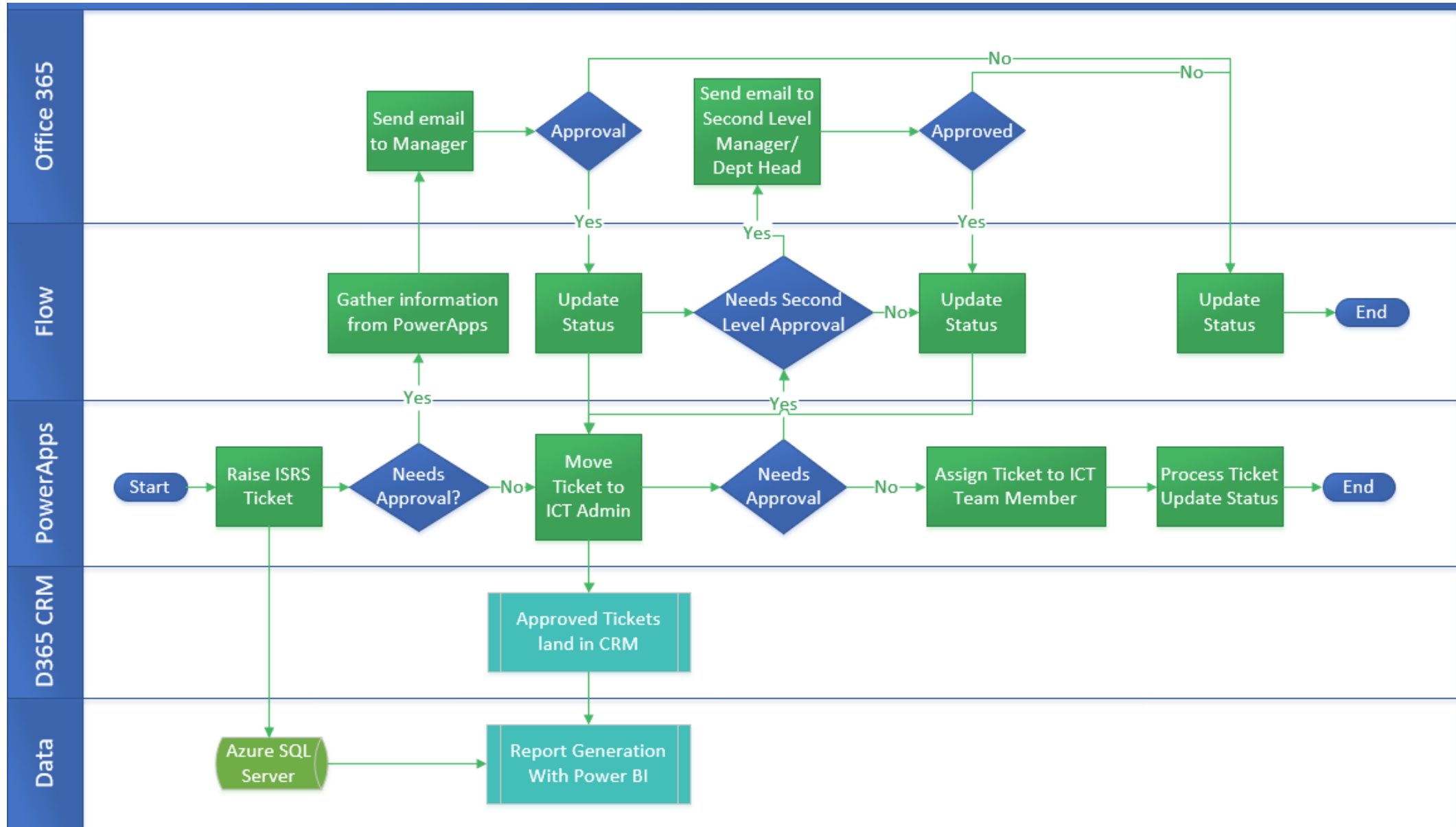
Gartner Magic Quadrant for Analytics and Business Intelligence Platforms for Q1 2019



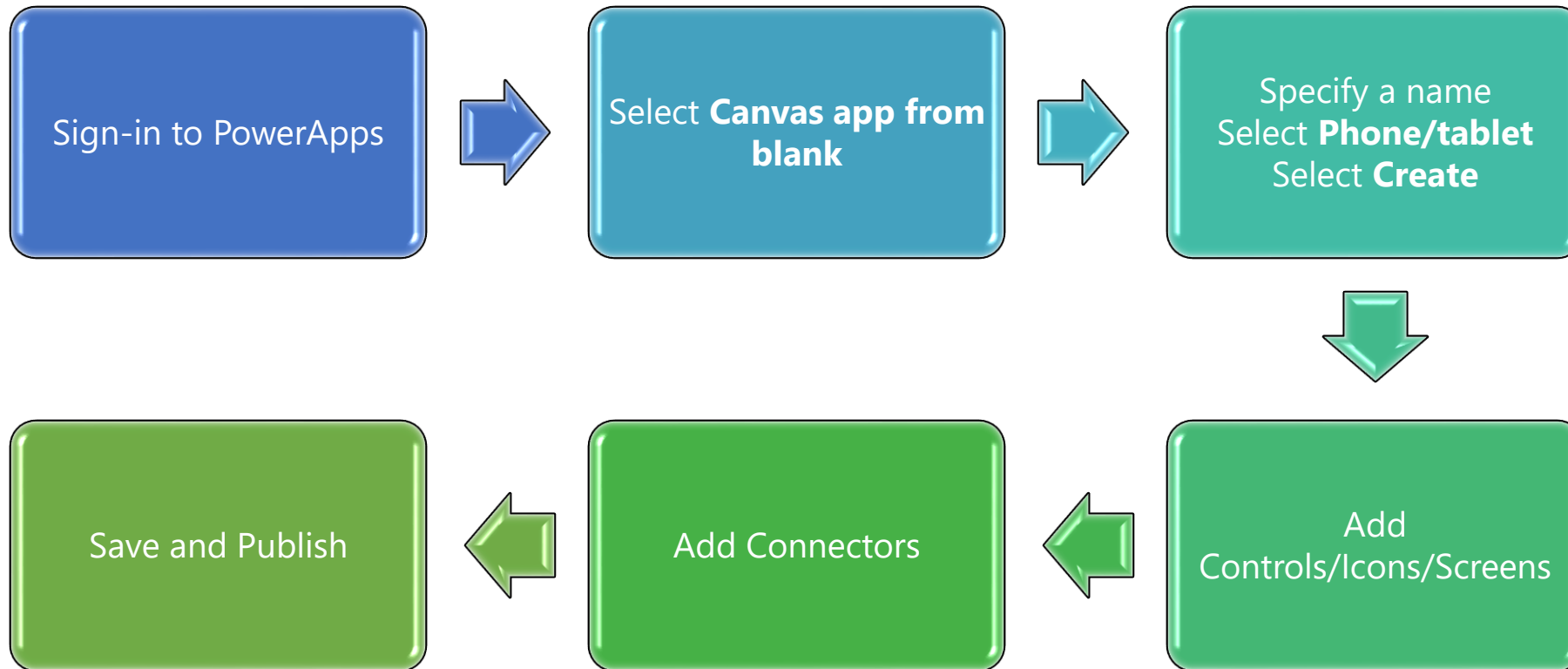
Demo Use Case -

Office365 + PowerApps +
Flow + D365 + Power BI

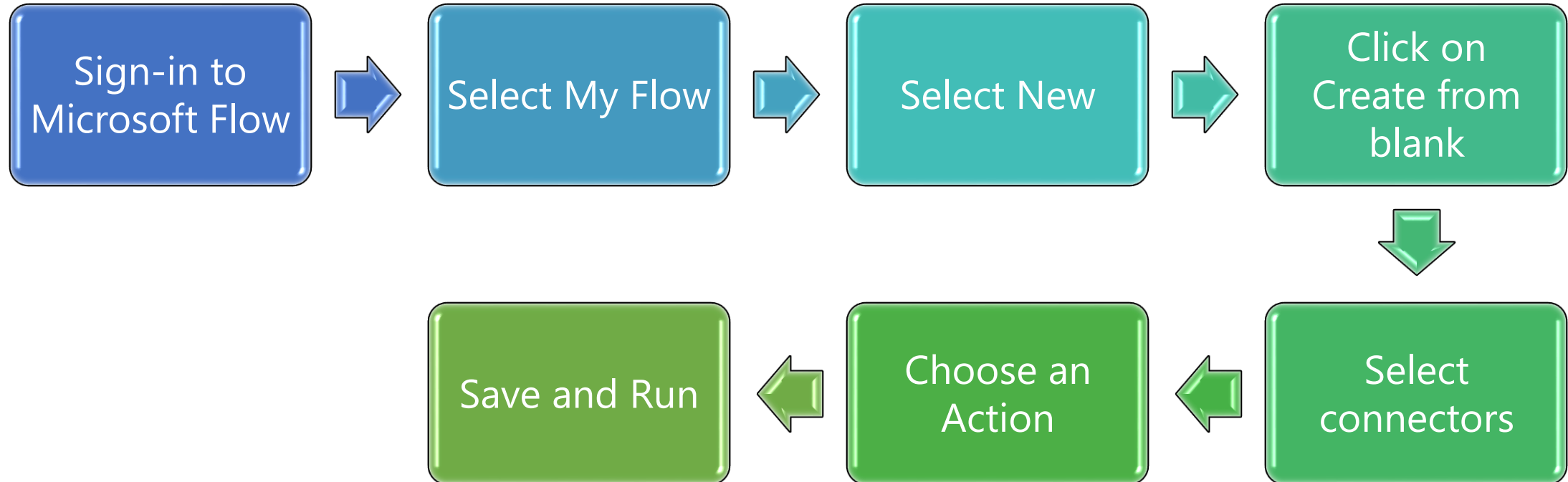
Use Case – ISRS Business Process Flow



Steps to create PowerApps



Steps to create Flows



Demo

Sign in to PowerApps

The screenshot shows the PowerApps web portal. The browser address bar displays `https://web.powerapps.com/environments/Default-13085c86`. The left sidebar contains a navigation menu with the following items: Home, Learn, Apps, Create, Data, and Business logic. The main content area features a warning message about a previous version Common Data Service database being deprecated. Below the warning, the heading "Build business apps," is followed by the text "Create apps that connect to your data" and "Make your own app". At the bottom, there is a button labeled "Canvas app from blank".

PowerApps

Home

Learn

Apps

Create

Data

Business logic

This environment contains a previous version Common Data Service database. The previous version Common Data Service Database is being deprecated. Flows that do not use this database are not affected. [Learn more.](#)

Build business apps,

Create apps that connect to your data

Make your own app

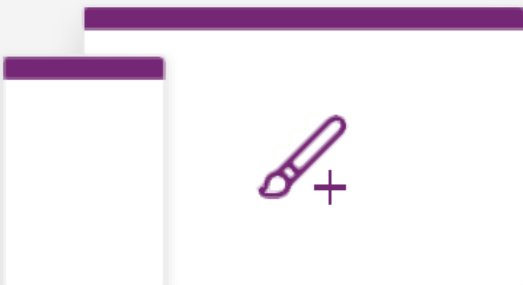
☒ Canvas app from blank

Select "Canvas app from blank"


Build business apps, fast

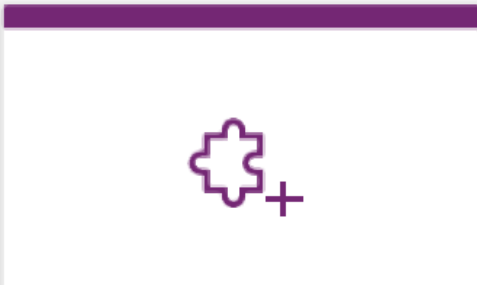
Create apps that connect to your data and work across web and mobile. [Learn about PowerApps](#)

Make your own app




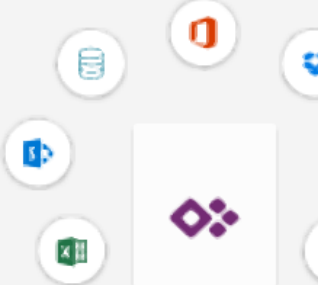
Canvas app from blank

 Canvas app




Model-driven app from blank

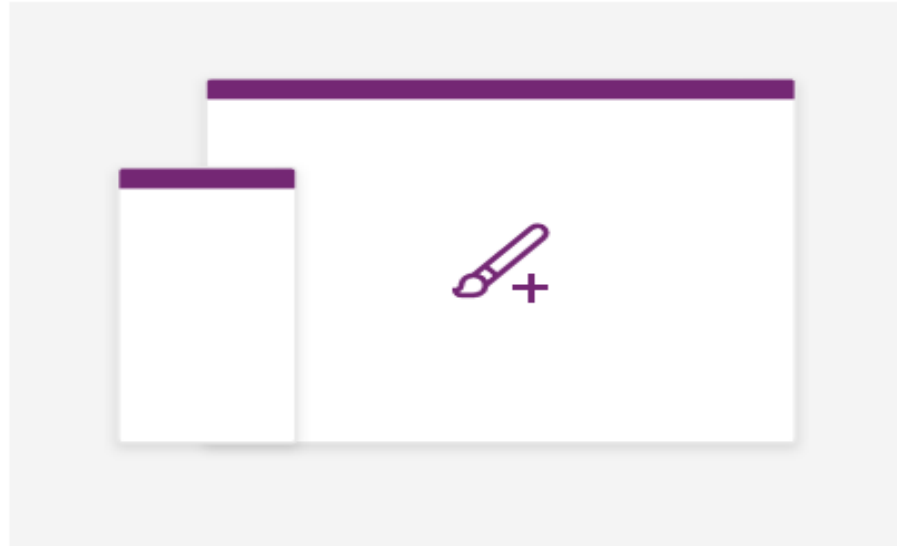
 Model-driven app




Start from data

 Canvas app

Specify name for App Canvas app from blank



Design the app you want, and connect it to hundreds of data sources.

 Canvas app

App name *

Bootcamp

Format

☐ Tablet

☒ Phone

Create

Cancel

Add new "Screen"

The screenshot displays the Microsoft PowerApps Studio web application. The browser address bar shows the URL <https://us.create.powerapps.com/studio/#>. The top navigation bar includes the 'PowerApps' logo and the environment name 'ValueMomentum (default)'. The main menu consists of 'File', 'Home', 'Insert', 'View', and 'Action'. The 'Home' tab is active, showing a 'New screen' button and a 'Theme' dropdown. A dialog box is open, presenting various screen templates: Blank, Scrollable, List, Form, Success, Tutorial, Email, People, Meeting, and Calendar. The central canvas area is currently empty, displaying the text 'Add an item from the Insert tab or connect to data'. The right-hand pane shows the 'Properties' tab for 'Screen1', with options for 'Fill', 'Background image' (a 'Select an image...' dropdown), and 'Image position' (a 'Fit' dropdown). The bottom status bar indicates the current screen is 'Screen1' and the zoom level is set to 40%.

Add "Controls" to the screen

The screenshot displays the Microsoft PowerApps Studio interface. The top navigation bar includes the 'PowerApps' logo and the 'Environment' dropdown set to 'ValueMomentum (default)'. The main menu bar contains 'File', 'Home', 'Insert', 'View', and 'Action'. The 'Insert' tab is active, showing a ribbon with various control categories: 'New screen', 'Label', 'Button', 'Text', 'Controls', 'Gallery', 'Data table', 'Forms', 'Media', 'Charts', and 'Icons'. The 'Controls' category is expanded, revealing a list of controls: Button, Drop down, Combo box, Date picker, List box, Check box, Radio, Toggle, Slider, and Rating. The left sidebar shows the 'Tree view' with a search bar and a list of components: 'App' and 'Screen1'. The central canvas area is empty, with a prompt 'Add an item from the Insert tab or connect to data'. The right sidebar shows the 'Properties' pane for 'Screen1', with options for 'Fill', 'Background image', and 'Image position'.

Add "Connectors"

https://web.powerapps.com/environments/Default-13085c86-4bcb-460a-a6f0-b373421c6323/connections









PowerApps

Environment
ValueMomentum (default)

+ New connection

Connections in ValueMomentum (default)

Canvas

	Name	Modified	Status
	Approvals Approvals	... 2 mo ago	Connected
	Poonam.Hajare@valuemomentum.com Common Data Service	... 3 d ago	Connected
	Poonam.Hajare@valuemomentum.com Dynamics 365	... 5 d ago	Connected
	Notifications Notifications	... 2 mo ago	Connected
	Poonam.Hajare@valuemomentum.com Office 365 Outlook	... 5 d ago	Connected
	Poonam.Hajare@valuemomentum.com Office 365 Users	... 21 min ago	Connected
	Poonam.Hajare@valuemomentum.com OneDrive for Business	... 1 d ago	Connected
	Poonam.Hajare@valuemomentum.com	... 2 wk ago	Connected

You've got 4 apps
Test-drive apps your team has already made.
[Try them now](#)

"Save" the app

PowerApps

Environment
ValueMomentum (default)

App settings

- App name + icon
Change the name or icon for the app
- Screen size + orientation
Change the aspect ratio for your app
- Advanced settings
Includes preview & experimental features

App name
BootcampDemo App

Icon

Preview

Background color

Icons

Browse

Description

Describe what people can do with this app. This will appear with your app on users' Dynamics 365 home page.
[Learn about Dynamics 365.](#)

Save

Save as

Share

Collections

Media

Variables

“Publish” the app

The screenshot shows the Microsoft PowerApps Studio web interface. The browser address bar displays <https://us.create.powerapps.com/studio/#>. The top navigation bar includes the PowerApps logo, a dropdown menu, and the environment name 'ValueMomentum (default)'. On the left, a dark sidebar contains navigation options: 'New', 'Open', 'Account', 'Connections', 'Flows', 'App settings', 'Save' (which is highlighted), 'Save as', 'Share', and 'Collections'. The main workspace area is titled 'Save' and shows the app name 'BootcampDemo App' in purple. Below the name, it indicates 'Environment: ValueMomentum (default)' and 'Saved: 4/15/2019 3:51:57 PM'. A green checkmark icon is followed by the text 'All changes are saved.' At the bottom of the main area, there are two buttons: a purple 'Publish' button and a light gray 'See all versions' button.

Sign in to Microsoft Flows

The screenshot shows the Microsoft Flow web application interface. At the top, there's a navigation bar with the 'Flow' logo on the left and user information 'Poonam Vitthalrao Hajare' and 'ValueMomentumTalentDevelo' on the right. Below the navigation bar is a sidebar with a menu containing 'Home', 'Approvals', 'My flows', 'Templates', 'Connectors', 'Data', 'Solutions', and 'Learn'. The main content area features a large heading 'Work less, do more.' followed by the text 'Create automated workflows with Microsoft Flow.' and a link 'See how it works'. Below this is a search bar with the placeholder text 'Find a template or connector to start with'. Further down, there's a section titled 'Featured template collections' with four cards: '11 templates to help your sales team', '12 templates that keep you informed when on-the-go', '12 templates that improve your productivity', and '11 templates that make software development easier'. At the bottom, there's a section for 'Popular services' with a 'See all 250' link.

Flow

Poonam Vitthalrao Hajare
ValueMomentumTalentDevelo

Home

Approvals

My flows

Templates

Connectors

Data

Solutions

Learn

Work less, do more.

Create automated workflows with Microsoft Flow.

See how it works

Find a template or connector to start with

Featured template collections

11 templates to help your sales team

12 templates that keep you informed when on-the-go

12 templates that improve your productivity

11 templates that make software development easier

Popular services

See all 250

Click on "My Flows"

Flow

Home

Approvals

My flows

Templates

Connectors

Data

Solutions

Learn

Work less, do more.

Create automated workflows with Microsoft Flow.

See how it works

Find a template or connector to start with

Featured template collections

11 templates to help your sales team

12 templates that keep you informed when on-the-go

12 templates that improve your productivity

11 templates that make software development easier

Popular services

See all 250

Click on "New" and "Create from blank"

← → ↺ https://us.flow.microsoft.com/manage/environments/45b3a5ac-5140-483c-a12a-50eaae06145c/flows ☆ 👤 ⋮

Flow 😊 🔔 ⬇ ⚙ ? Poonam Vitthalrao Hajare ValueMomentumTalentDevelo

+ New ↕ Import

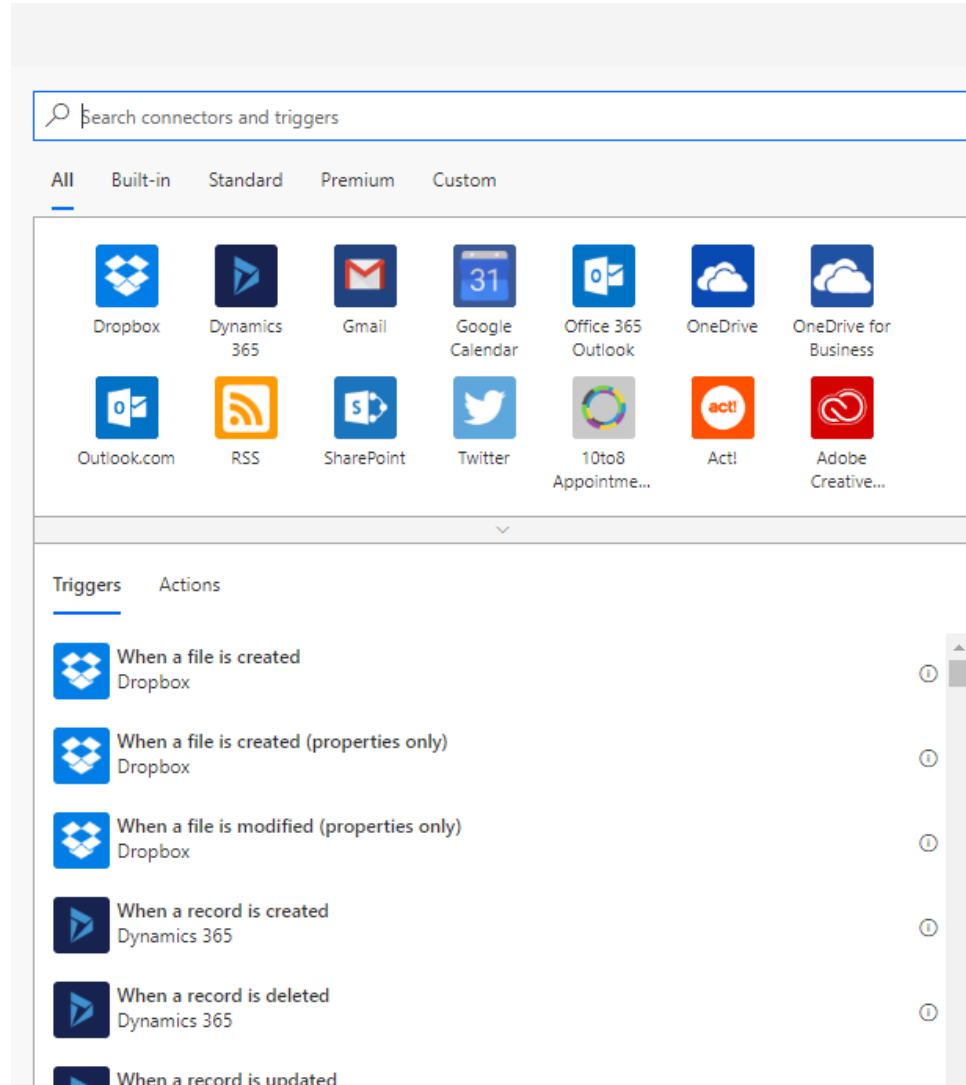
+ Create from blank

📄 Create from template

My flows Team flows Business process flows

📄	Name	Modified	Type
🔗	Copy of - PowerApp -> Execute stored procedure	1 mo ago	Instant
🔗	PowerApp -> Execute stored procedure	1 mo ago	Instant
🔗	PowerApps button	1 mo ago	Instant
🔗	PowerApp -> Create file,Create share link	1 mo ago	Instant

Select "Connectors"



Select "New Step"

The screenshot shows the Microsoft Flow (Power Automate) web interface. The browser address bar displays the URL: <https://us.flow.microsoft.com/manage/environments/45b3a5ac-5140-483c-a12a-50eae06145c/flows/new>. The user is logged in as Poonam Vitthalrao Hajare, with the email ValueMomentumTalentDevelo. The interface includes a left sidebar with navigation options: Home, Approvals, My flows (selected), Templates, Connectors, Data, Solutions, and Learn. The main workspace shows a flow titled "Untitled". A "PowerApps" step is added, with a message: "No additional information is needed for this step. You will be able to use the outputs in subsequent steps." Below the step, there are two buttons: "+ New step" (highlighted with a red box) and "Save". The top right of the interface contains icons for feedback, notifications, download, settings, and help, along with the user's profile.

Choose an action

The screenshot shows the Microsoft Flow web interface. The top navigation bar includes a 'Flow' tab and a user profile for Poonam Vitthalrao Haja. The left sidebar contains navigation links: Home, Approvals, My flows (selected), Templates, Connectors, Data, Solutions, and Learn. The main workspace displays a 'PowerApps' connector with a downward arrow pointing to the 'Choose an action' dialog box. This dialog box features a search bar labeled 'Search connectors and actions' and tabs for 'All', 'Built-in', 'Standard', 'Premium', and 'Custom'. Under the 'Built-in' tab, several action cards are visible: Control, Notifications, Office 365 Outlook, OneDrive for Business, SharePoint, Twitter, and 10to8 Appointme... Below the dialog box, a list of actions is shown under the 'Actions' tab, including 'Condition Control', 'Send me a mobile notification Notifications', 'Send me an email notification Notifications', and 'Create contact Office 365 Outlook'.

Click on "Save"

The screenshot shows the Microsoft Flow (Power Automate) web interface. The browser address bar displays the URL: <https://us.flow.microsoft.com/manage/environments/Default-13085c86-4bcb-460a-a6f0-b373421c6323/flows/829d60a1-8479-4218-8278-6ed2a2f7d5e9>. The user is logged in as Poonam Vitthalrao Hajare, ValueMomentum (default).

The left sidebar contains the following navigation items: Home, Approvals, My flows (selected), Templates, Connectors, Data, and Learn.

The main workspace shows a workflow titled "PowerApp -> Start and wait for an approval, Execute a SQL query, Cond...". The workflow consists of four steps connected by arrows:

- PowerApps
- Start and wait for an approval
- Execute a SQL query
- Condition

At the bottom of the workspace, there are two buttons: "+ New step" and "Save". The "Save" button is highlighted with a red box in the original image.

In the top right corner of the interface, there are three buttons: "Save" (highlighted with a red box), "Flow Checker", and "Test".

Test the Flow

← → ↺ <https://us.flow.microsoft.com/manage/environments/Default-13085c86-4bcb-460a-a6f0-b373421c6323/flows/829d60a1-8479-4218-8278-6ed2a2f7d5e9> ☆ 👤 ⋮

Flow ☺ 🔔 ⬇ ⚙ ? Poonam Vitthalrao Hajare
ValueMomentum (default)

☰

- Home
- Approvals
- My flows
- Templates
- Connectors
- Data ▾
- Learn

← PowerApp -> Start and wait for an approval,Execute a SQL query,Cond...

PowerApps ...

Start and wait for an approval ...

Execute a SQL query ...

Condition ...

+ New step Save

Test Flow ✕

☒ I'll perform the trigger action

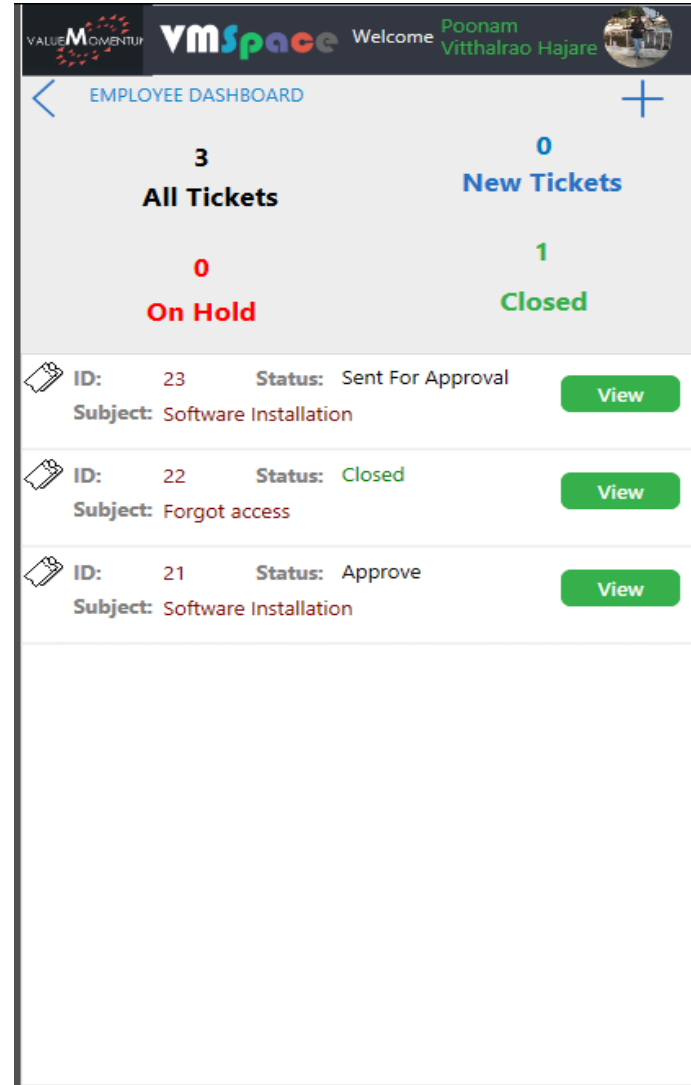
☐ Using data from previous runs
Choose data from a list of previous runs:

Save & Test Cancel

Landing Page



Employee Dashboard



The screenshot shows the 'Employee Dashboard' interface. At the top, there's a header with the 'vmSpace' logo, a welcome message for 'Poonam Vitthalrao Hajare', and a profile picture. Below the header, the dashboard is divided into two main sections. The left section, titled 'EMPLOYEE DASHBOARD', shows a summary of tickets: 3 All Tickets, 0 New Tickets, 0 On Hold, and 1 Closed. The right section, titled 'New Tickets', shows a list of three tickets. Each ticket entry includes an ID, a status, a subject, and a 'View' button.

ID	Status	Subject	Action
23	Sent For Approval	Software Installation	View
22	Closed	Forgot access	View
21	Approve	Software Installation	View

Create Page

VALUE MOMENTUM

vmSpace

Welcome Poonam Vitthalrao Hajare

CREATE TICKET

STATUS

New

* LOCATION

Select

* SUBJECT

* DESCRIPTION

* ACCOUNT

Select

* PRIORITY

Select

* AREA

Facilities

* TYPE

* CATEGORY

* APPROVER REQUIRED

No

APPROVER

Submit


Back To Dashboard

Employee View Screen

VALUE MOMENTUM

vmSpace

Welcome Poonam Vitthalrao Hajare



< VIEW SCREEN

ID	23
Created By	Poonam Vitthalrao Hajare
Location	Mantri 18th floor
Area	ICT
Type	Service Request
Subject	Software Installation
Description	Software Installation
Category	Licensed Software Installation Requisition
Account	Pekin
Priority	Critical
Approver	Swarnalata Tamanam
Status	Sent For Approval
Approver Comments	

Dashboard

Manager Dashboard

The screenshot displays the 'Manager Dashboard' interface. At the top, there is a header bar with the 'VALUE MOMENTUM' logo on the left, the 'vmSpace' logo in the center, and a welcome message 'Welcome Swarnalata Tamanam' on the right. Below the header, a navigation bar shows a back arrow and the text 'MY APPROVALS'. The main content area features a large grey box with the number '1' and the text 'Sent For Approval'. Below this, a card displays the following information: 'ID: 23', 'Status: Sent For Approval', and 'Subject: Software Installation'. A green 'View' button is positioned to the right of the status. The bottom half of the dashboard is currently empty.

Manager View Screen

VALUE MOMENTUM

vmSpace

Welcome Swarnalata
Tamanam

<

VIEW SCREEN

ID	23
Created By	Poonam Vitthalrao Hajare
Location	Mantri 18th floor
Area	ICT
Type	Service Request
Subject	Software Installation
Description	Software Installation
Category	Licensed Software Installation Requisition
Account	Pekin
Priority	Critical
Approver	Swarnalata Tamanam
Status	Sent For Approval
* Approver Comment	<input type="text"/>

Approve

Reject


Admin Dashboard

The screenshot displays the 'Admin Dashboard' interface. At the top, there is a header bar with the 'VALUE MOMENTUM' logo, the 'vmSpace' logo, and a welcome message for 'Poonam Vitthalrao Hajare'. Below the header, a navigation bar shows a back arrow and the text 'ADMIN DASHBOARD'. The main content area features a large number '1' and the title 'All Tickets'. A ticket card is visible with the following details: ID: 24, Status: New, and Subject: Forgot ID. A green 'View' button is located to the right of the ticket details. The bottom portion of the dashboard is currently empty.

ID	Status	Subject	Action
24	New	Forgot ID	View

Admin View Screen

VIEW SCREEN

ID	24
Created By	Poonam Vitthalrao Hajare
Location	VAM 9th floor
Area	Facilities
Type	Issue
Subject	Forgot ID
Description	Forgot ID
Category	Forgot Access Card
Account	ERP
Priority	Critical
Approver	
Status	New
Approver Comments	
Root Cause	<input type="text"/>
Solution Offered	<input type="text"/>
Reason For Reject	<input type="text"/>
Effort	<input type="text"/>
Admin Status	Select 



© 2016 Microsoft Corporation. All rights reserved. Microsoft, Windows, Windows Vista and other product names are or may be registered trademarks and/or trademarks in the U.S. and/or other countries. The information herein is for informational purposes only and represents the current view of Microsoft Corporation as of the date of this presentation. Because Microsoft must respond to changing market conditions, it should not be interpreted to be a commitment on the part of Microsoft, and Microsoft cannot guarantee the accuracy of any information provided after the date of this presentation. MICROSOFT MAKES NO WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, AS TO THE INFORMATION IN THIS PRESENTATION.