

Unleashing the Power of Adaptive Cards in Viva Connections



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- Vespa and Travel
- Viva Developer

Microsoft Viva

The integrated employee experience platform that empowers people and teams to be their best

 **Viva Connections** | All apps in one place

All employees ◀ ▶ Role-based experiences

Connection

Keep everyone informed, included, and inspired



Viva Engage



Viva Amplify

Insight

Improve productivity and wellbeing with actionable insights



Viva Insights



Viva Pulse

Purpose

Align people's work to team and organization goals



Viva Goals

Growth

Help employee learn, grow, and succeed



Viva Topics



Viva Learning



Viva Sales

Microsoft 365

Platform and admin services

Briefing email, people, answers, admin experience, common navigation

Privacy and security

Granular feature access controls, inherited permissions for 3P, differential privacy for insights

Integrations to HCM, CRM, LMS, wellness, and more

Workday, Qualtrics, SAP SuccessFactors, LinkedIn, Headspace, and more

Overview

In this session, we'll explore the versatility of Adaptive Cards in Microsoft 365, focusing on how they can be leveraged in Viva Connections (and Outlook and Microsoft Teams) to create custom experiences and streamline workflows. We'll explore both low-code and pro-code solutions and demonstrate how they can be used to solve common use cases such as creating interactive forms, notifications, and more.

Additionally, we'll present a decision framework to help determine when custom development is appropriate versus when low-code solutions can be used. This will include an examination of factors such as timeline, budget, technical requirements, and desired outcomes.

Key Takeaways:









- Understanding the basics of Adaptive Cards and their capabilities in Viva Connections
- Hands-on demos of low-code solutions for building custom experiences
- A decision framework for choosing between custom development and low-code solutions
- Real-world examples of Adaptive Cards in action
- Best practices for leveraging Adaptive Cards in a Microsoft 365 environment, specifically for Viva Connections.

What is Viva Connections

“Microsoft [Viva Connections](#) is a desktop and mobile experience that brings together relevant news, conversations, and resources in one place for your organization.”



Set up Viva Connections

- 1 Prepare your intranet**

Modernize, polish, and prioritize content and experiences
- 2 Set a home site**

Set a SharePoint home site if you haven't already
- 3 Enable the app bar**

Enable the SharePoint app bar and customize navigation
- 4 Create a Dashboard**

Create a Dashboard, add cards, and apply audience targeting
- 5 Prepare content for the Feed**

Prioritize content that will appear in the Feed on the mobile app
- 6 Add the app in Teams**

Add the Viva Connections app in the Teams admin center
- 7 Choose mobile settings**

Pre-install and pre-pin your branded app in the Teams mobile app bar
- 8 Launch with end-users**

Alert and educate end-users in your organization

<https://docs.microsoft.com/en-us/viva/connections/guide-to-setting-up-viva-connections>



The Landing

Who we are ▾ What's happening ▾ Find it ▾ My SharePoint Dashboard



Dashboard details

Published 5/4/2022 [Edit](#)

Top News

You are all caught up on top news today!

Time off

11 days
Currently available
paid time off

[Report](#)

Office 365

FAQs
Search FAQs and ask
community a
question

[Top 5 questions](#)

Microsoft Ignite

Register, play, pause,
and rewind prized
moments

[Learn more](#)



Inventory

+2.56%
Today's update
across top selling
items

Holidays

Nov 25
Thanksgiving is the
next company
holiday

[See all](#)



Café 34

Get today's menu,
specials and hours

Devices

HoloLens 2
For precise, efficient
hands-free work

Praise

Show gratitude to
peers who went above
and beyond at work.



Pay slip

December 14
Your next pay date
and all the details

Team calendar

This week
3 team members are
out of office, 1 report
due

Health Check

**FREE COVID-19 vaccine
and testing at the
Health Center**

[Schedule](#)



Benefits

Enroll for 2022
Choose from the
latest benefit options

10:28



Viva Connections

Today's Menu

Check out today's menu with different options

Open



Web link

Create a dashboard card that links to any web page or site, including...

Approvals

Send and keep track of your requests all in one place

Create request

Viva Insights

Improve your productivity and wellbeing with Microsoft Viva...

Cloud Hub

Receive important news from your Microsoft tenant.

8:8 My M365 Groups



What is an Adaptive Card (AC)

"...is a web part that provides a rich, interactive user experience to present information, displaying images and text, and collecting user input in a visually appealing way."



**The Appeal Is In The
Aesthetics**



Your flight booking

Passengers

Sarah Hum
Jeremy Goldberg

2 Stops

Tue, May 30, 2023 9:25 PM

San Francisco, SFO
to
Amsterdam, AMS

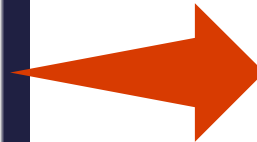
Non-Stop

Wed, Jun 5, 2023 10:50 AM

Amsterdam, AMS
to
San Francisco, SFO

Total

\$4,032.54



Your flight booking

Passengers

Sarah Hum
Jeremy Goldberg

2 Stops

Tue, May 30, 2023 9:25 PM

San Francisco

SFO



Amsterdam

AMS

Non-Stop

Wed, Jun 5, 2023 10:50 AM

Amsterdam

AMS



San Francisco

SFO

Total

\$4,032.54

EXPENSE APPRO... ⚠ Pending

Trip to AMS

[EXPORT AS PDF](#)

ER-13052

Submitted By **Toni Pohl** toni@mycompany.org
Duration 2023-01-15 to 2023-01-20
Submitted On 2023-01-10
Reimbursable \$400.00
Amount
Awaiting approval from **Martina Grom**
martina@mycompany.org
Submitted to **Andele Vance**
adele@mycompany.org

DATE	CATEGORY	AMOUNT
06-19	Air Travel Expense	\$300.00 ▾
06-19	Auto Mobile Expense	\$100.00 ▾
06-21	Excess Baggage Cost	\$50.38 ▾

Total Expense Amount \$450.38
Non-reimbursable Amount (-) \$50.38
Advance Amount (-) 0.00

Amount to be Reimbursed **\$400.00**

[Show history](#)

Approve

Reject

Tell us about yourself

We just need a few more details to get you booked for the trip of a lifetime!



Don't worry, we'll never share or sell your information.

Your name (Last, First) *

Developer, Toni

Your email *

toni@mycompany.org

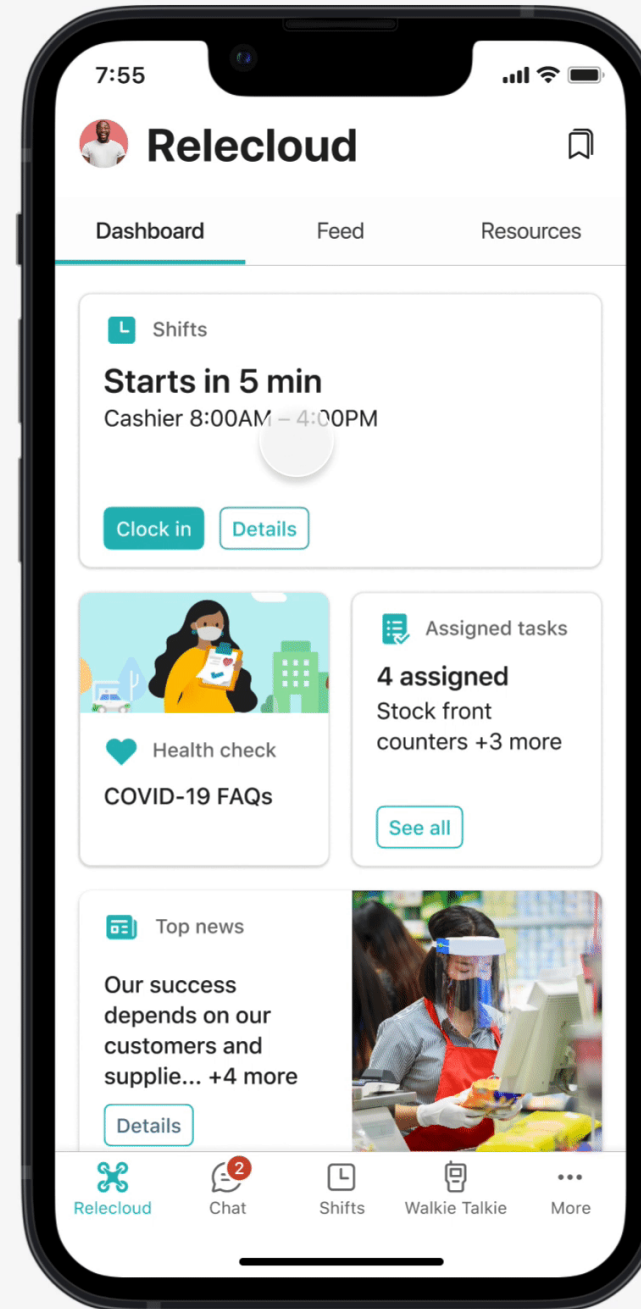
Phone Number (xxx-xxx-xxxx) *

571-345-6789

Submit

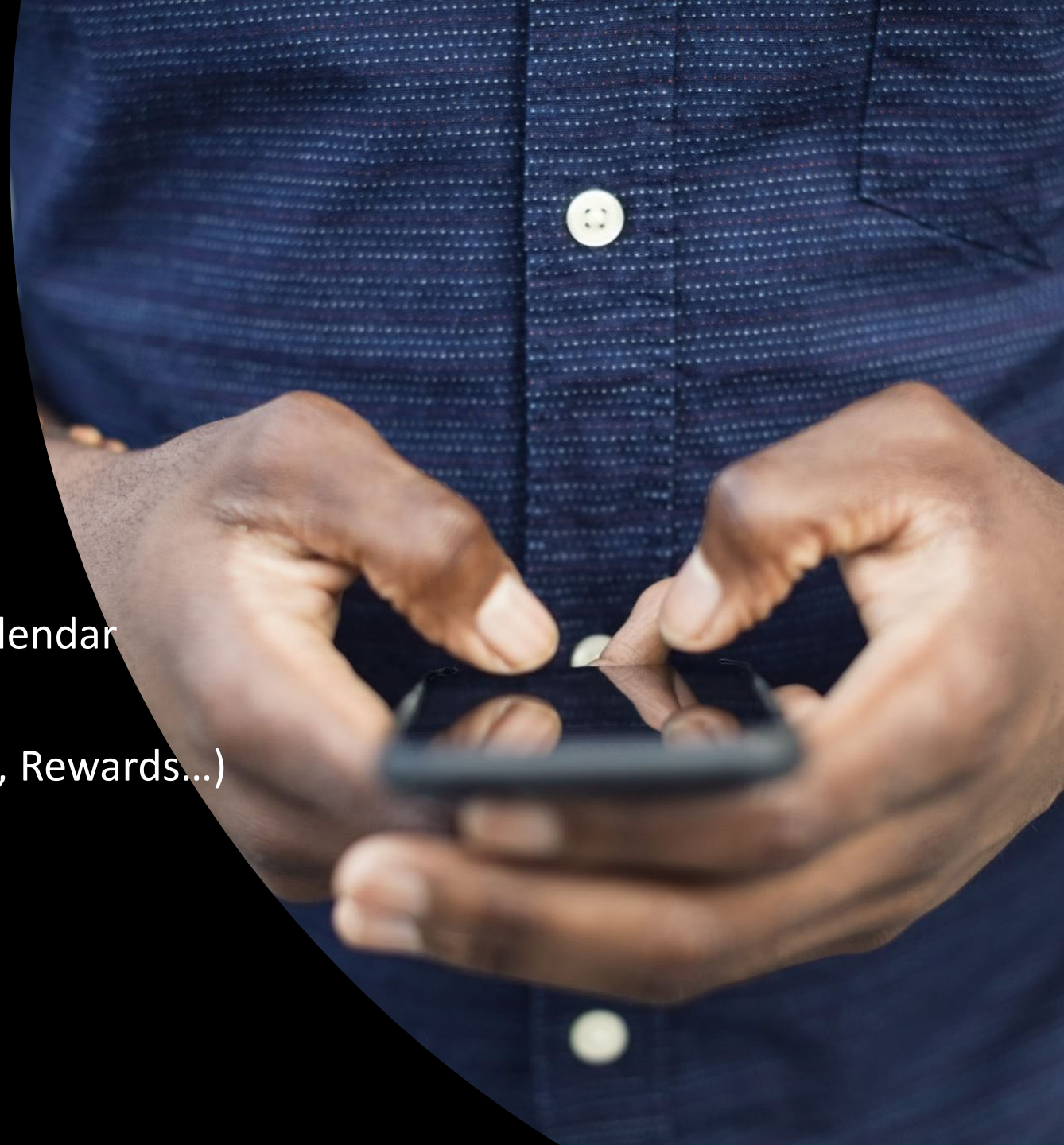
Viva Connections design principles

- Integrate rather than duplicate
- Stay in context
- Bring cards to life with relevant and dynamically refreshable data
- Avoid too many clicks



Real-life Use cases for Employee Apps

- News
- Resources
- Quick Tasks (Time check in / check out)
- 3rd party services like HR, etc.
- Internal marketplace, job offers, events, calendar
- Employee Badge
- Employee self service (HR system, Benefits, Rewards...)
- Idea generation
- Internal Phone Book
- KPI's



Real-life: Employee badge

Toni Developer

Toni Developer
Developer

toni@dev.onmicrosoft.com


Language: en-US

Location: Vienna

Mobile: +43 678 98123405


Employee ID: ee292

Notes: -



My account

daysLunch Our mission &



Toni Developer
Developer

Approvals
Send and keep track of your requests all in one place

Create request

Viva - ACE - Card types and templates

Basic

1. Title of the ACE
2. Primary Text (context)

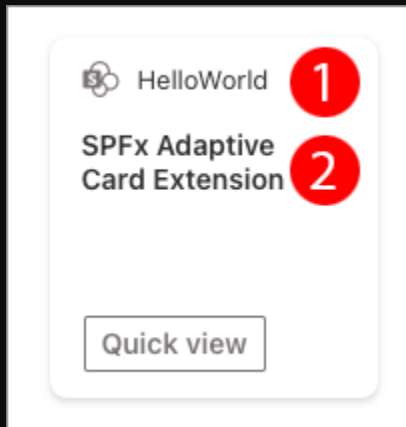
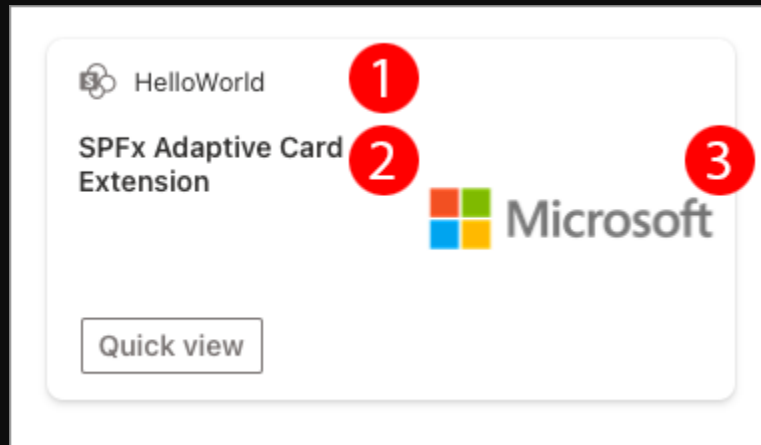


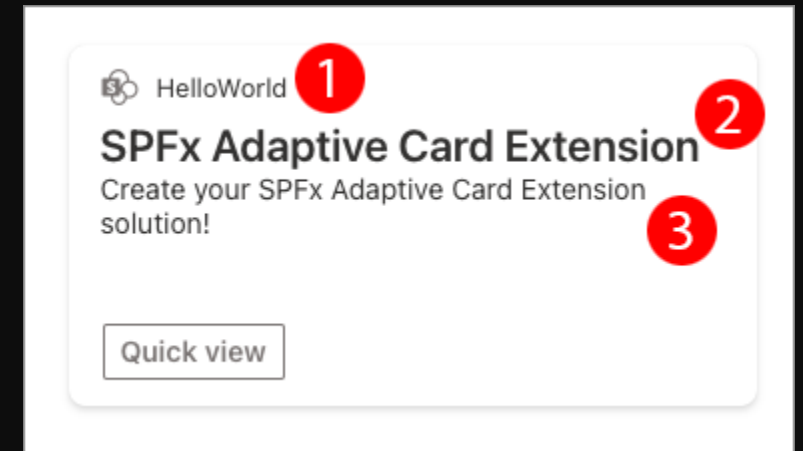
Image Card View

1. Title of the ACE
2. Primary Text (context)
3. Image URL



Primary Text Card View

1. Title of the ACE
2. Primary Text (context)
3. Description



Design Adaptive Cards

<https://adaptivecards.io>



Demo: What is it?

Use static AC's in Viva

You can use Adaptive Cards within Microsoft 365!

- Microsoft Teams
- SharePoint
- Outlook
- Power Apps
- Microsoft Forms
- Microsoft Search
- Viva Connections
- Bots
- Websites
- More...



Demo: Development

Send an AC with a Flow

Send a custom approval AC with Outlook

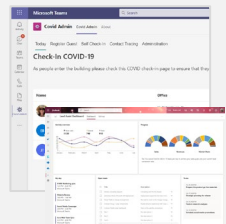
Dynamic Restaurant info app

Building SPFx experiences in Microsoft 365

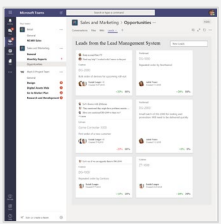
The easiest way to build your enterprise solutions for Microsoft Teams, Microsoft Viva, Outlook, Microsoft 365 app and SharePoint

 Microsoft Teams

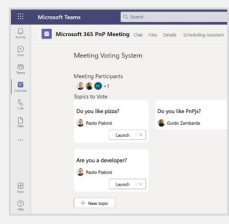
Personal Apps



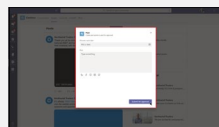
Teams tabs



Meeting apps

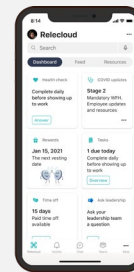


Messaging extensions



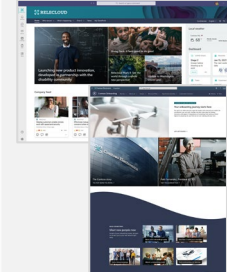
 Microsoft Viva

Cards

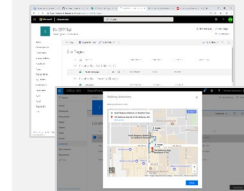


 SharePoint

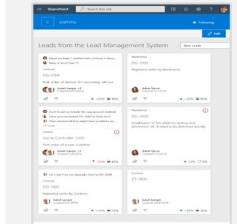
Web Parts



Extensions



App pages



Outlook and Microsoft 365 app (Office)

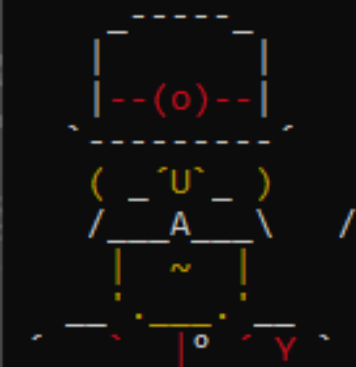
Content driven applications | SSO | Automatic code hosting | Industry standard tooling

Develop your app

```
yo @microsoft/sharepoint
```

```
> yo@4.3.0 postinstall C:\Users\Toni\AppData\Roaming\npm\node_modules\yo
> yodoctor
> yodoctor

'yodoctor' is not recognized as an internal or external command,
operable program or batch file.
+ gulp-cli@2.3.0
+ yo@4.3.0
+ @microsoft/generator-sharepoint@1.14.0
added 260 packages from 169 contributors and updated 2 packages in 77.178s
PS C:\Repo\Playground\spfx-company-announcements-ace> yo @microsoft/sharepoint
```



Welcome to the
SharePoint Online SPFx
Yeoman Generator@1.14.0

See <https://aka.ms/spfx-yeoman-info> for more information on how to use this generator.

Let's create a new SharePoint solution.

```
? What is your solution name? spfx-company-announcements-ace
? Which type of client-side component to create? Adaptive Card Extension
? Which template do you want to use? Basic Card Template
```

Add new Adaptive Card Extension to solution spfx-company-announcements-ace.

```
? What is your Adaptive Card Extension name? Important announcements
```

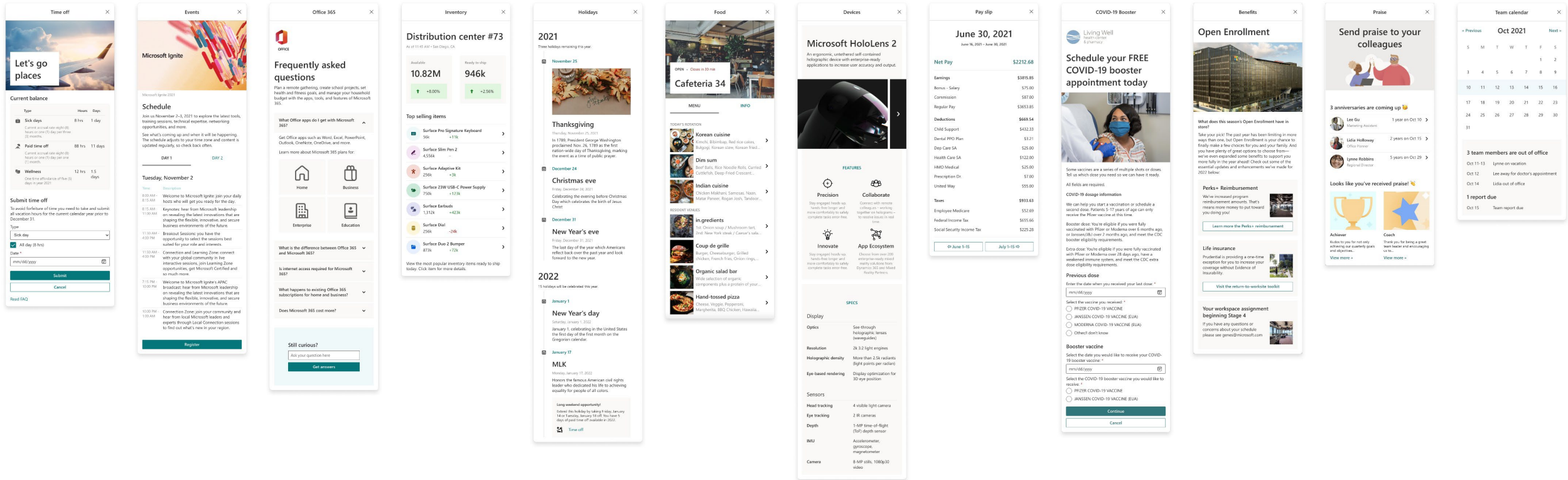
```
create package.json
```


Summary

Decision Framework for Viva Connections Apps

Topic	1 st party cards	Weblink	ACE's	Teams Apps	3 rd party apps
Description	Built-in, Available OOB <ul style="list-style-type: none"> • Approvals • Assigned Tasks • Shifts • Top News • ... 	Use ANY existing website or application <ul style="list-style-type: none"> • Power Apps • SAP Fiori • Custom Apps 	Quick view, good looking , design principles for ACE's <ul style="list-style-type: none"> • Static ACE's • Dynamic ACE's * 	More functionality & design <ul style="list-style-type: none"> • SPFx v1.16.x • Media upload • Geo Location • Supports Outlook & Office.com (M365 apps) 	More functionality & design, integrate SaaS solutions <ul style="list-style-type: none"> • Install from Teams Marketplace • Use installed apps instantly
Opens browser	Yes	Yes	No	Yes	Depends
Time	Low	Low	Medium	High	Low
Budget	\$	\$	\$ - \$\$	\$\$\$	\$ - \$\$\$
Technical Requirement	Low	Low	Low, * Developer	Developer	Low
Outcome	High Value	Easy to use	Simple results	App Development	High Value

Adaptive Card Quick view Samples



<https://docs.microsoft.com/en-us/sharepoint/dev/spfx/viva/design/designing-quick-view>

Resources

- Set up Viva Connections
<https://docs.microsoft.com/en-us/viva/connections/guide-to-setting-up-viva-connections>
- Set up your SharePoint Framework development environment
<https://docs.microsoft.com/en-us/sharepoint/dev/spfx/set-up-your-development-environment>
- SharePoint Framework release notes
<https://docs.microsoft.com/en-us/sharepoint/dev/spfx/roadmap>
- Viva Connections Adaptive Card Extension design guidance
<https://docs.microsoft.com/en-us/sharepoint/dev/spfx/viva/design/design-intro>
- Open-source designs for Adaptive Cards
<https://docs.microsoft.com/en-us/sharepoint/dev/spfx/viva/design/quick-view-samples>
- Viva Connection Adaptive Card Extensions (ACEs) sample repository
<https://github.com/pnp/sp-dev-fx-aces>
- Create an SPFx Image Card ACE displaying image carousel
<https://learn.microsoft.com/en-us/training/modules/sharepoint-spfx-adaptive-card-extension-card-types/5-exercise-ace-image-card>
- This presentation & samples
<https://github.com/tonipohl/VivaConnections>

Let's connect



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