Unleashing the Power of Adaptive Cards in Viva Connections

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• Host of cloudusergroup
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- Azure | Development
- Vespa and Travel
- Viva Developer
# Microsoft Viva

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

## Microsoft 365

<table>
<thead>
<tr>
<th>Platform and admin services</th>
<th>Privacy and security</th>
<th>Integrations to HCM, CRM, LMS, wellness, and more</th>
</tr>
</thead>
<tbody>
<tr>
<td>Briefing email, people, answers, admin experience, common navigation</td>
<td>Granular feature access controls, inherited permissions for 3P, differential privacy for insights</td>
<td>Workday, Qualtrics, SAP SuccessFactors, LinkedIn, Headspace, and more</td>
</tr>
</tbody>
</table>

## Features

<table>
<thead>
<tr>
<th>Connection</th>
<th>Insight</th>
<th>Purpose</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keep everyone informed, included, and inspired</td>
<td>Improve productivity and wellbeing with actionable insights</td>
<td>Align people’s work to team and organization goals</td>
<td>Help employee learn, grow, and succeed</td>
</tr>
</tbody>
</table>

- **Viva Engage**
- **Viva Insights**
- **Viva Goals**
- **Viva Topics**
- **Viva Pulse**
- **Viva Learning**
- **Viva Amplify**
- **Viva Sales**
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
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...
Create request

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

Viva Insights
Improve your productivity and wellbeing with Microsoft Viva...

Cloud Hub
Receive important news from your Microsoft tenant.
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
EXPENSE APPROVAL

Trip to AMS

Submitted By: Toni Pohl
Submitted On: 2023-01-15 to 2023-01-20

Total Submitted Amount: $400.00

Awaiting approval from: Martina Grom

Submitted to: Andele Vance

<table>
<thead>
<tr>
<th>DATE</th>
<th>CATEGORY</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>06-19</td>
<td>Air Travel Expense</td>
<td>$300.00</td>
</tr>
<tr>
<td>06-19</td>
<td>Auto Mobile Expense</td>
<td>$100.00</td>
</tr>
<tr>
<td>06-21</td>
<td>Excess Baggage Cost</td>
<td>$50.38</td>
</tr>
</tbody>
</table>

Total Expense Amount: $450.38
Non-reimbursable Amount: $50.38
Advance Amount: $0.00

Amount to be Reimbursed: $400.00

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
Developer

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Employee ID: ee292
Notes: -
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

- Teams tabs
- Meeting apps
- Messaging extensions
- Cards
- Web Parts
- Extensions
- App pages

Microsoft Viva
SharePoint
Outlook and Microsoft 365 app (Office)

Content driven applications | SSO | Automatic code hosting | Industry standard tooling
Develop your app

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

<table>
<thead>
<tr>
<th>Topic</th>
<th>1&lt;sup&gt;st&lt;/sup&gt; party cards</th>
<th>Weblink</th>
<th>ACE’s</th>
<th>Teams Apps</th>
<th>3&lt;sup&gt;rd&lt;/sup&gt; party apps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Built-in, Available OOB</td>
<td>Use ANY existing website or application</td>
<td>Quick view, good looking, design principles for ACE’s</td>
<td>More functionality &amp; design</td>
<td>More functionality &amp; design, integrate SaaS solutions</td>
</tr>
<tr>
<td></td>
<td>• Approvals</td>
<td>• Power Apps</td>
<td>• Static ACE’s</td>
<td>• SPFx v1.16.x</td>
<td>• Install from Teams Marketplace</td>
</tr>
<tr>
<td></td>
<td>• Assigned Tasks</td>
<td>• SAP Fiori</td>
<td>• Dynamic ACE’s</td>
<td>• Media upload</td>
<td>• Use installed apps instantly</td>
</tr>
<tr>
<td></td>
<td>• Shifts</td>
<td>• Custom Apps</td>
<td>• Geo Location</td>
<td>• Geo Location</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Top News</td>
<td>• Top News</td>
<td>• Supports Outlook &amp; Office.com (M365 apps)</td>
<td>• Supports Outlook &amp; Office.com (M365 apps)</td>
<td></td>
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<td>• ...</td>
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<td>• …</td>
<td>• …</td>
</tr>
<tr>
<td>Opens browser</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Depends</td>
</tr>
<tr>
<td>Time</td>
<td>Low</td>
<td>Low</td>
<td>Medium</td>
<td>High</td>
<td>Low</td>
</tr>
<tr>
<td>Budget</td>
<td>$</td>
<td>$</td>
<td>$ - $$</td>
<td>$$$</td>
<td>$ - $$$</td>
</tr>
<tr>
<td>Technical Requirement</td>
<td>Low</td>
<td>Low</td>
<td>Low, * Developer</td>
<td>Developer</td>
<td>Low</td>
</tr>
<tr>
<td>Outcome</td>
<td>High Value</td>
<td>Easy to use</td>
<td>Simple results</td>
<td>App Development</td>
<td>High Value</td>
</tr>
</tbody>
</table>

- *Developer: Requires additional skills or resources for development.
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

• This presentation & samples
  https://github.com/tonipohl/VivaConnections
Let’s connect

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