



# EmPower Your Career Conference

April 3rd to 5th

**365**  
SATURDAY

## Getting Started with PCF Custom Controls

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Technical Solution Architect



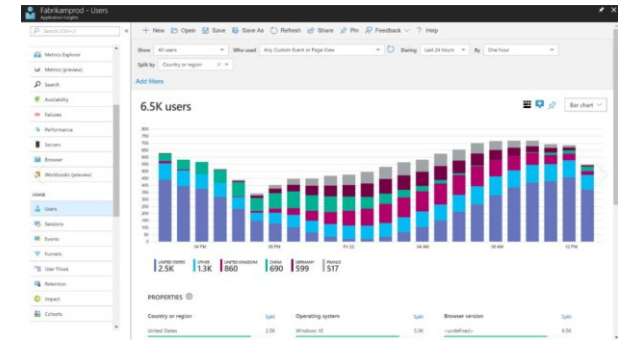
# What is PCF & Code Components ?

**PCF (Power Apps Component Framework)** empowers professional developers and app makers to create code components to provide enhanced user experience.

**Code components** are a type of solution components that are added on model-driven and canvas apps.



Optimizes for performance

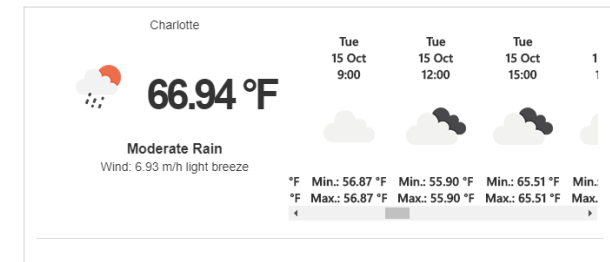


Access to Web API & Contextual data

The screenshot shows a form titled 'General' with fields for 'Name' (25 E Court St #401, Greenville, SC 29601), 'Street' (25 E Court St #401), 'City' (Greenville), 'State' (SC), and 'Zip Code' (29601). The 'Owner' field is set to 'Andrii Butenko'.



Enhanced User Experience



# How is it different from Web Resources ?

Code Components vs Web Resources (HTML)

## Rendering

Code components are rendered as part of the same context as of the form and loads at the same as all the other form components, Also provides seamless UX experience for users

## Number of files generated

Framework bundles all TypeScript, HTML, CSS files into a single solution package making it easier to move across environments. It can also be shipped via AppSource

## Reusability

Code components can be reused many times across different entities, forms and screens with ease.



# Prepare your machine .

In order to develop code components you will need to install some prerequisites



## NPM or Node.js

Install npm or node.js. Recommendation is LTS version 10.15.3 or higher



## .NET Framework

Install .NET Framework 4.6.2 Developer Pack



## Integrated Development Environment

Install Visual Studio 2017 or later

Or

Install .Net Core 3.1 SDK and Visual Studio Code



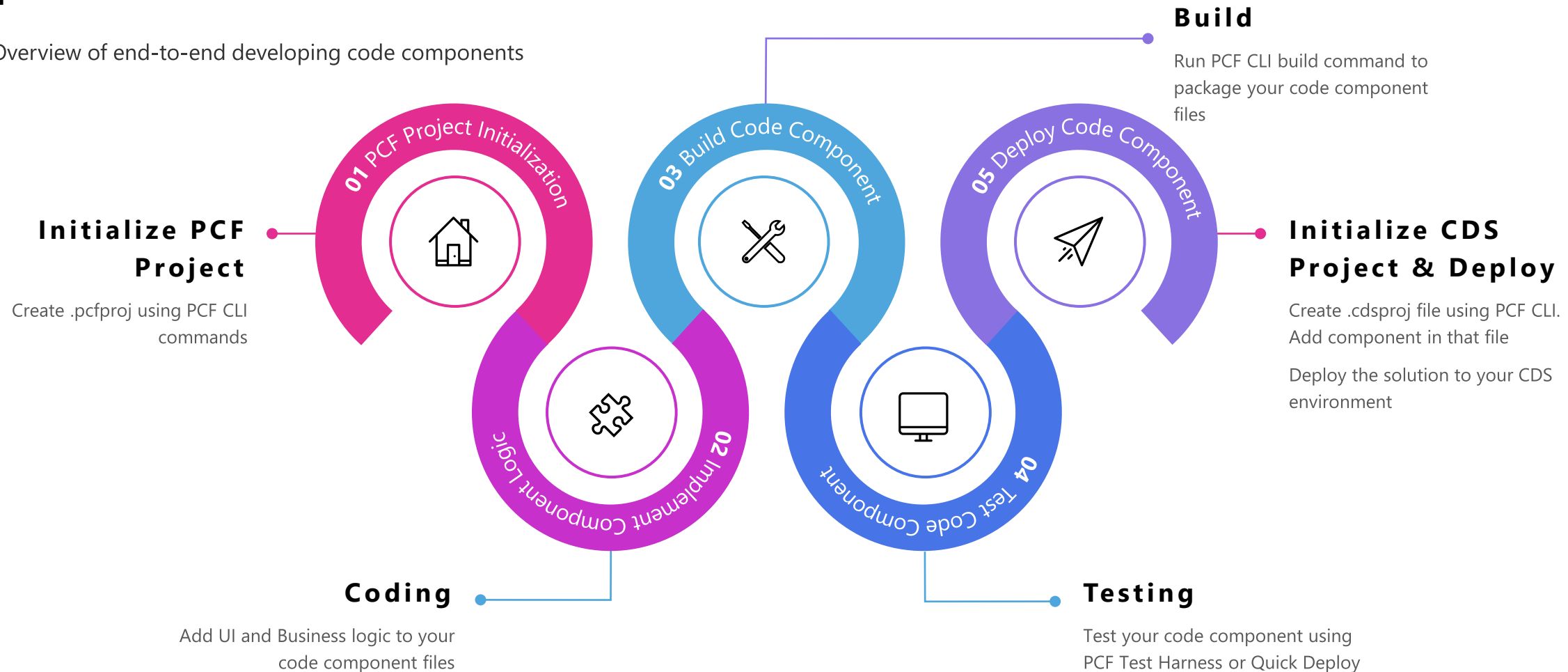
## Power Apps CLI

Install Microsoft PowerApps CLI



# Development process .

Overview of end-to-end developing code components



# Community Tools .

**PCF Gallery** is a collection of controls created using the PowerApps Component Framework by the community.

**PCF Builder** is a tool from XrmToolBox that lets you create code components in visual manner using the Power Apps CLI.



## PCF GALLERY

- <https://pcf.gallery>
- One stop-shop for all community-built PCF Code Components
- Share ideas
- Developed & maintained by Guido Preite



## PCF BUILDER

- Makes creating PCF Code Components easy
- Consolidates various commands in one-button click
- Auto-increment version numbers on build
- Ability to download existing code components from PCF Gallery
- Developed by Danish Naglekar



# Want to see a DEMO ?

Power Apps Mission

**Empower every** developer to do more.

Citizen Developers.

IT Developers.

Pro Developers.



# Questions ?

Let's have some discussions.

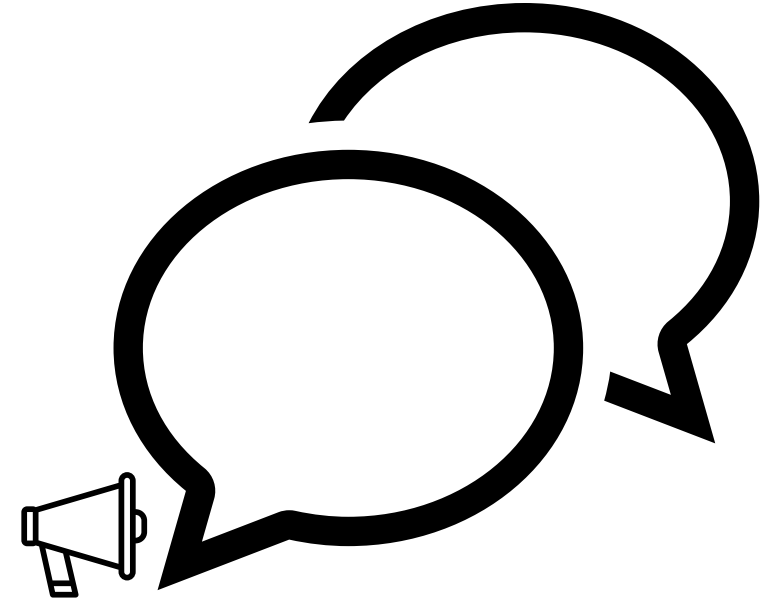


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**DANISH NAGLEKAR**

Also known as "Power Maverick"

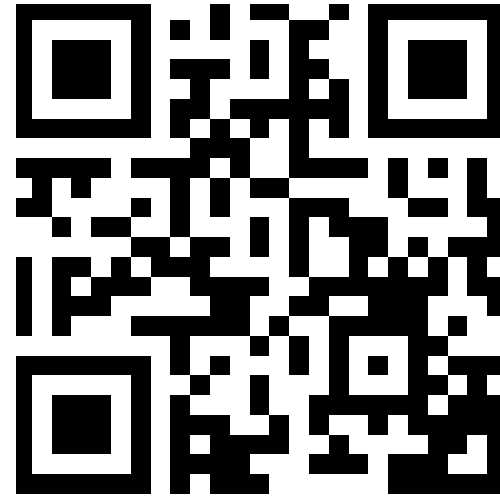
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# Fill out survey .

Use the QR Code to fill out survey; it will help us improve future sessions.



#MorePowerLessTrouble

**#EmPowerYourCareer**