



**IDSD21754**

# **Forge-ing Ahead with .NET**

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## Class summary

Autodesk, Inc., has developed a new platform to power the Future of Making Things. Autodesk is providing an unprecedented ability to capitalize on their years of “design and make” expertise through the computing revolution that is the cloud. In this lecture, I’ll demonstrate how you can capitalize on this revolution using your existing .NET skills.

# Key learning objectives

At the end of this class, you will be able to:

- Understand the general capabilities of Forge Platform
- Learn how to use .NET to connect and execute Forge Platform functionality
- Discover the business advantage of using Forge Platform
- Learn how to apply simple patterns to accelerate Forge Platform development

# What is Forge and What is the Benefit to my Business?

# Forge Capabilities

- Data Management
  - Store and manage data on the Autodesk Cloud
- Design Automation
  - DWG Automation
- Model Derivative
  - File Translation
  - Thumbnails
  - Geometry Extraction
  - Data Extraction
- Web Viewing

# Forge Benefits

- Currently Free
- View Collaboration
  - Customized Viewers
  - 2D / 3D navigation
- Data Liberation
  - Visual Reporting
  - Feed downstream systems
- Only the Beginning!

# How can I utilize my .NET capabilities with Forge?

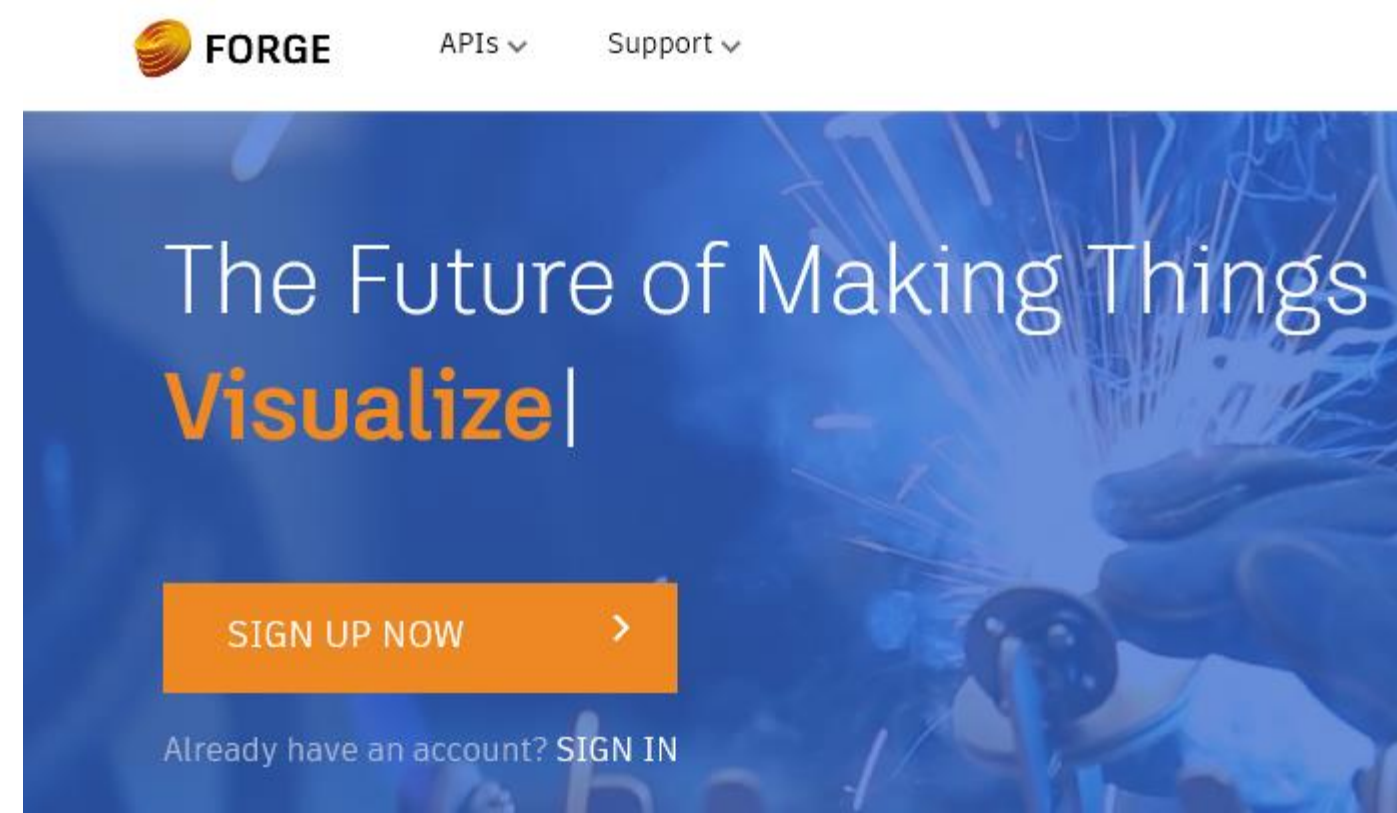
# General Outline

- Sign Up to Forge
- Create an Application
- Get a Key
- Prototype Capabilities
- Build Out Functionality
- ?????
- Profit



# Sign Up to Forge

- <https://developer.autodesk.com/>
- Create an Autodesk Account



# Create an Application

- Add some basic information

Provide basic information about your app

App Name

App description  
Provide a brief description of your app

Callback URL ?

Your Website URL

CREATE APP >

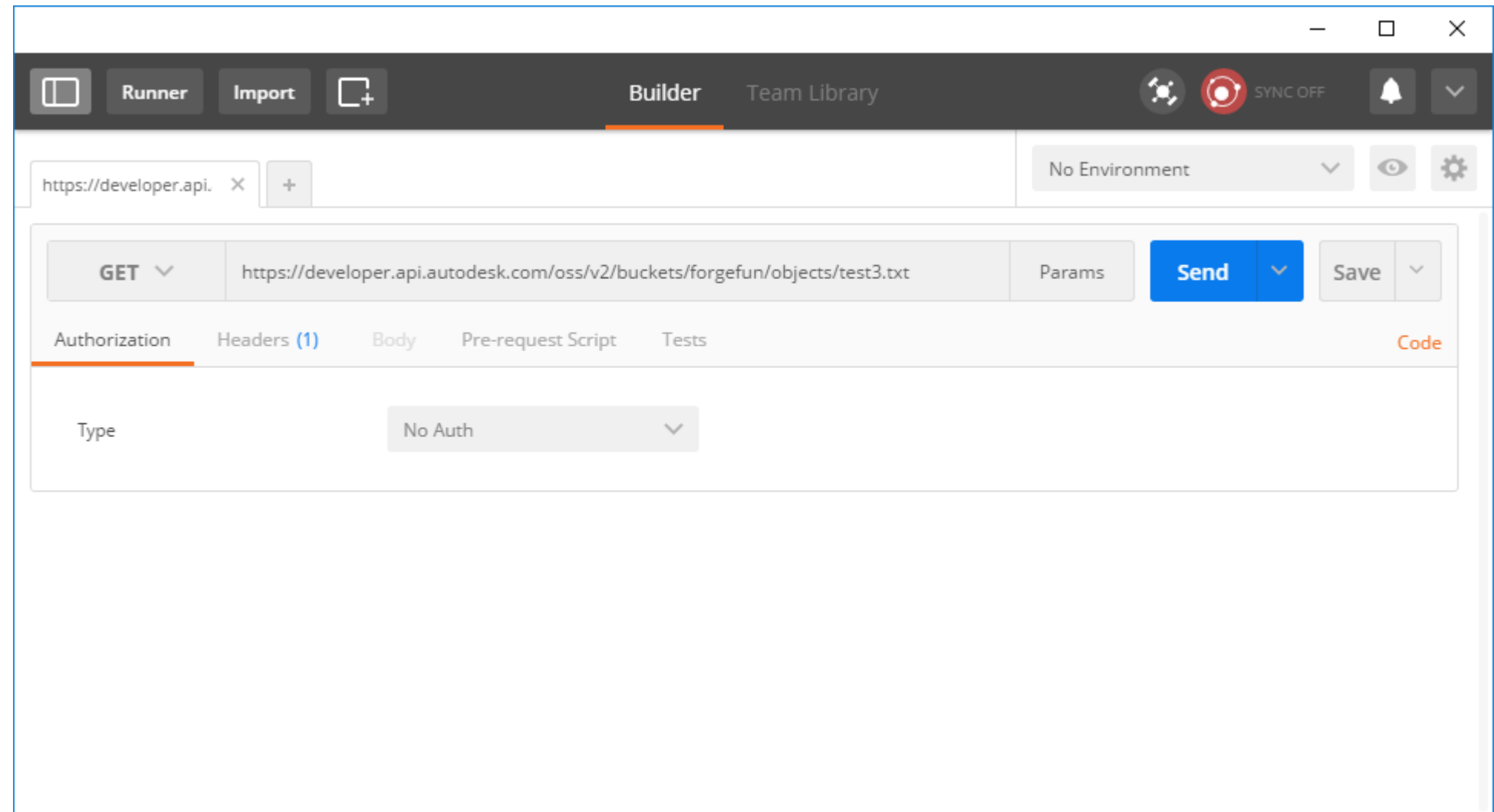
- Record your Client ID
- Record your Client Secret

About this app (Created 04 Nov 2016)

Client ID	AGoqpTYfzR4lle4G0wgkV6eQ4jdQaiOI
Client Secret	***** <a href="#">Show</a> <a href="#">Regenerate</a>
App Name	TestApp
Description	test test
CallBack URL	https://www.testtest.com

# Prototype Capabilities

- Read the Forge API
- What's a curl?
- Get Postman
- Test in Postman



# Build Out Functionality

- Get Visual Studio 2015
- Get RestSharp & Json.Net from NuGet
- Build your RestSharp Command
- Build your Test Harness
- Build Your Application

# How did I do?

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# Questions?

