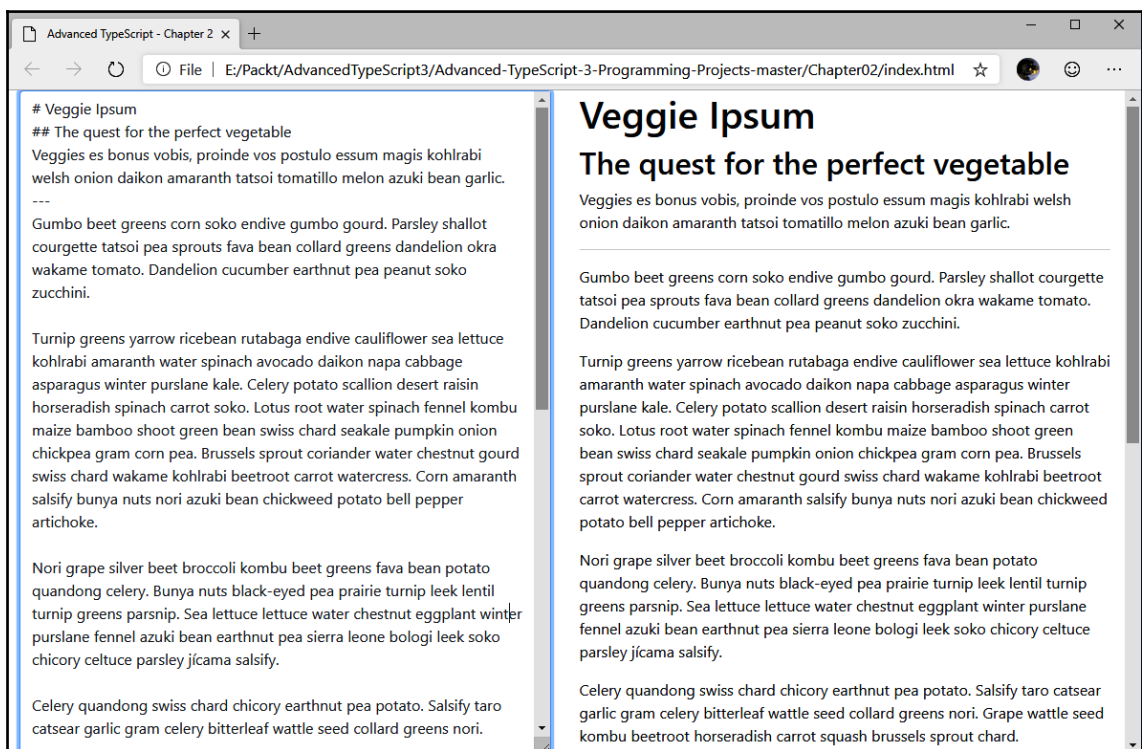
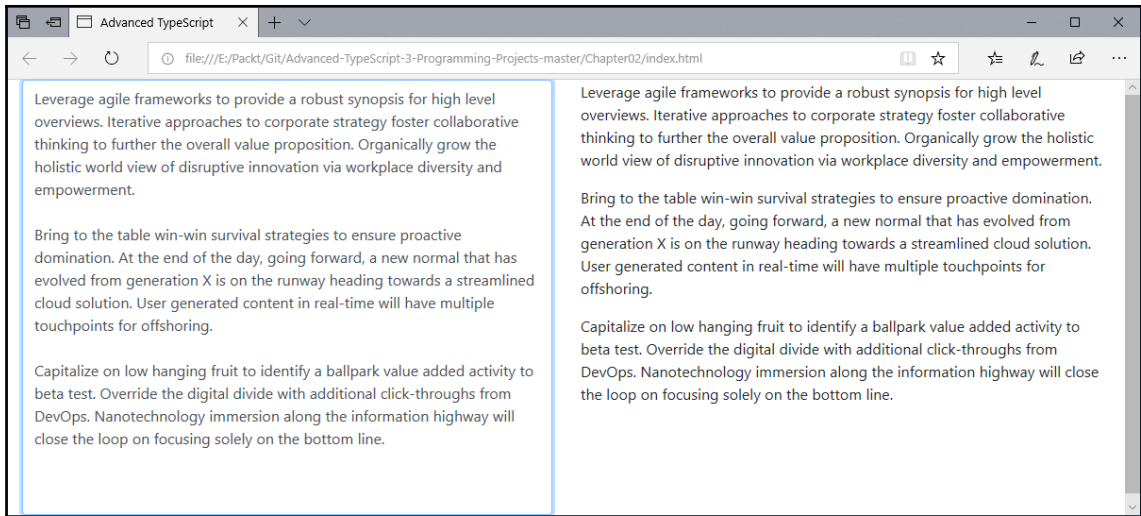


# Chapter 1: Advanced TypeScript Features

*No images*

## Chapter 2: Creating a Markdown Editor with TypeScript





---

# Chapter 3: A React Bootstrap Personal Contacts Manager

Advanced TypeScript

localhost:3000/

Personal details

First name

Last name

First name

Last name

Address line 1

Address line 1

Address line 2

Address line 2

Town

Town

County

County

Postal/ZipCode

Phone number

Date of birth

01/03/2019

Save

Clear

The first name is a minimum of 1 character

The last name is a minimum of 2 characters

Address line 1 must be greater than 5 characters

Town must be greater than 5 characters

County must be greater than 5 characters

The postal/zip code is invalid

You must enter a phone number

Peter Smith

Donald Smith

Bob Smith

Bob Johnson

Edit

Delete

Edit

Delete

Edit

Delete

Edit

Delete

Load

New Person

←

→

↺

## Personal Details

First name

Text input

Last name

Text input

Firstname *O'* Lastname

[Edit](#)

[Delete](#)

Load

New Person

Address line 1

Text input

Address line 2

Text input

Town

Text input

County

Text input

Postal/Zip Code

Text input

Phone number

Text input

Date of Birth

dd/mm/yyyy

Save

Clear

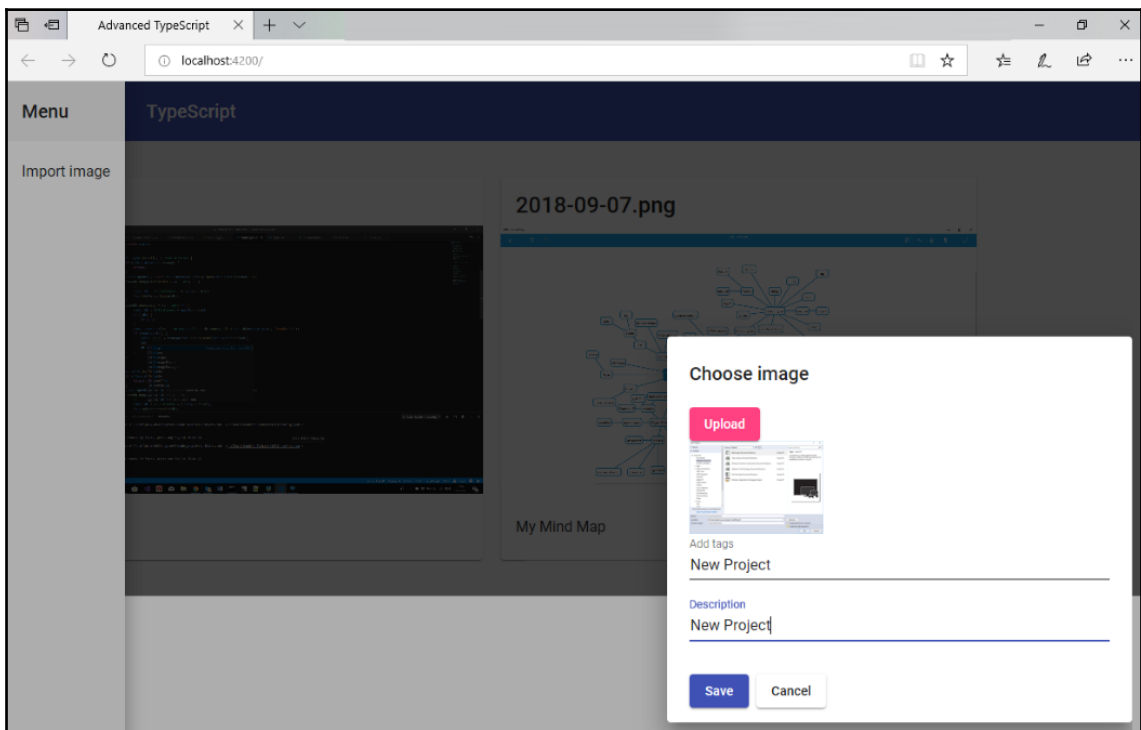
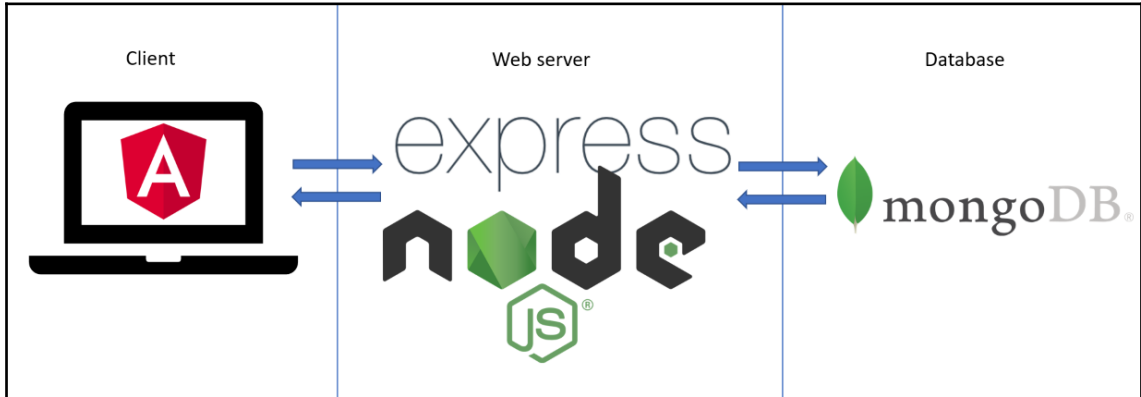
Validation error line 1

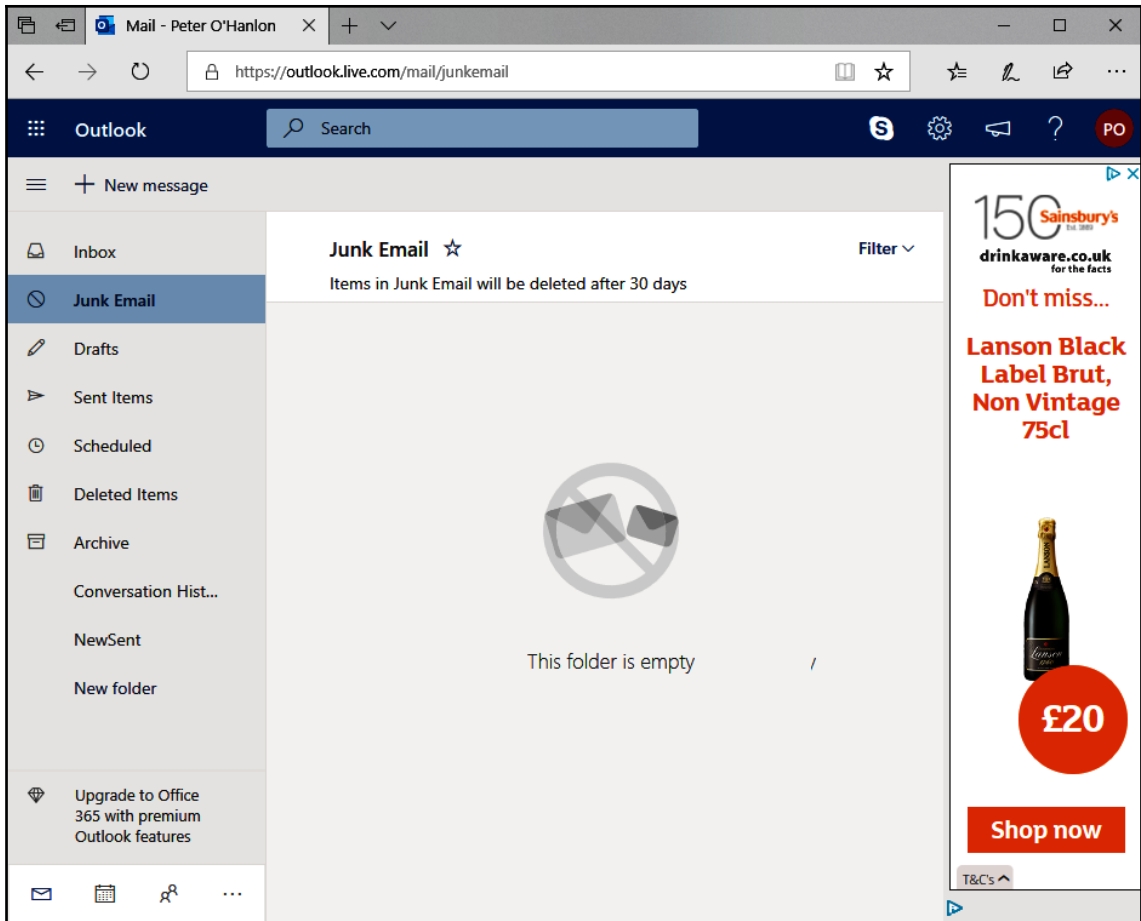
Validation error line 2



---

## Chapter 4: The MEAN Stack - Building a Photo Gallery





Harvey.jpg



Harvey looking cute

Frozen Rain.jpg



Snowy day with rain frozen on a branch

Sleepy Harvey.jpg



Sleepy Harvey

## Choose image

Upload



Add tags

Harvey, Profile, Dog

---

Description

Harvey looking cute|

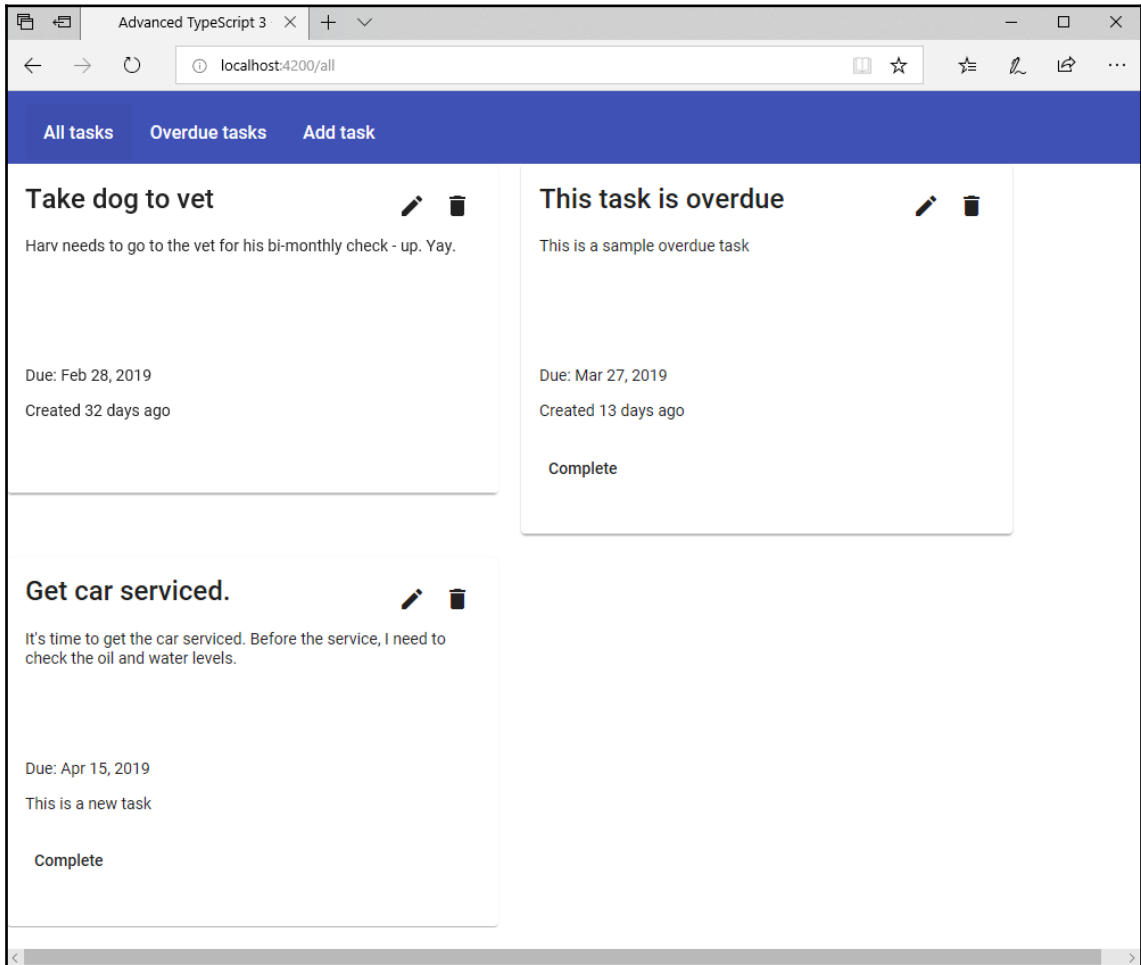
---

Save

Cancel

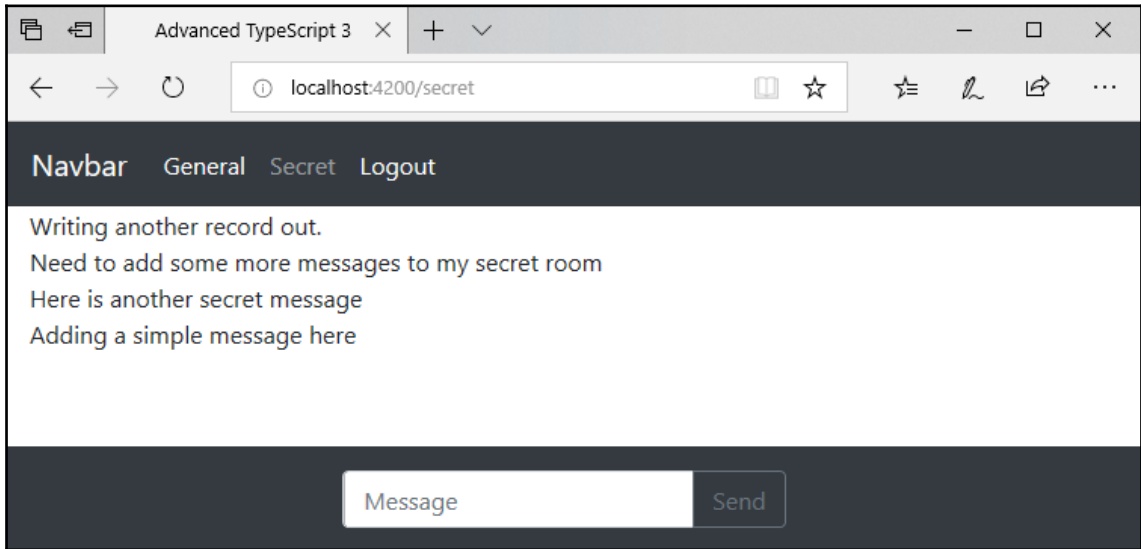
---

# Chapter 5: Angular ToDo App with GraphQL and Apollo



---

## Chapter 6: Building a Chat Room Application Using Socket.IO




Create Application

Name

PacktPub-AdvancedTypeScriptProjects

You can change the application name later in the application settings.


Choose an application type



Native App

Mobile or Desktop, an app that runs natively in a device.


eg: iOS SDK



Single Page Web App

A JavaScript front-end app that uses an API.


eg: AngularJS + NodeJS



Regular Web App

Traditional web app (with refresh).

eg: Java ASP.NET



Machine to Machine App

A CLI, Daemon, or Service running on your backend.

eg: Shell Script

CREATE

[ 11 ]

Dashboard

Applications

APIs

SSO Integrations

Connections

Universal Login

Users & Roles

Rules

Hooks

Multifactor Auth

Emails


Logs

Anomaly Detection

Extensions

Get Support

Back to Applications



# PacktPub-AdvancedTypeScriptProjects

SINGLE PAGE APPLICATION

Client ID

IvDHHA20ZKx7zvUQWNPrMy15vLTsFxx4

Quick Start

Settings

Addons

Connections

Name

PacktPub-AdvancedTypeScriptProjects

Domain

dev-gdhoxa3c.eu.auth0.com

Client ID

IvDHHA20ZKx7zvUQWNPrMy15vLTsFxx4

Client Secret

.....

☐ Reveal client secret.

The Client Secret is not base64 encoded.

Description

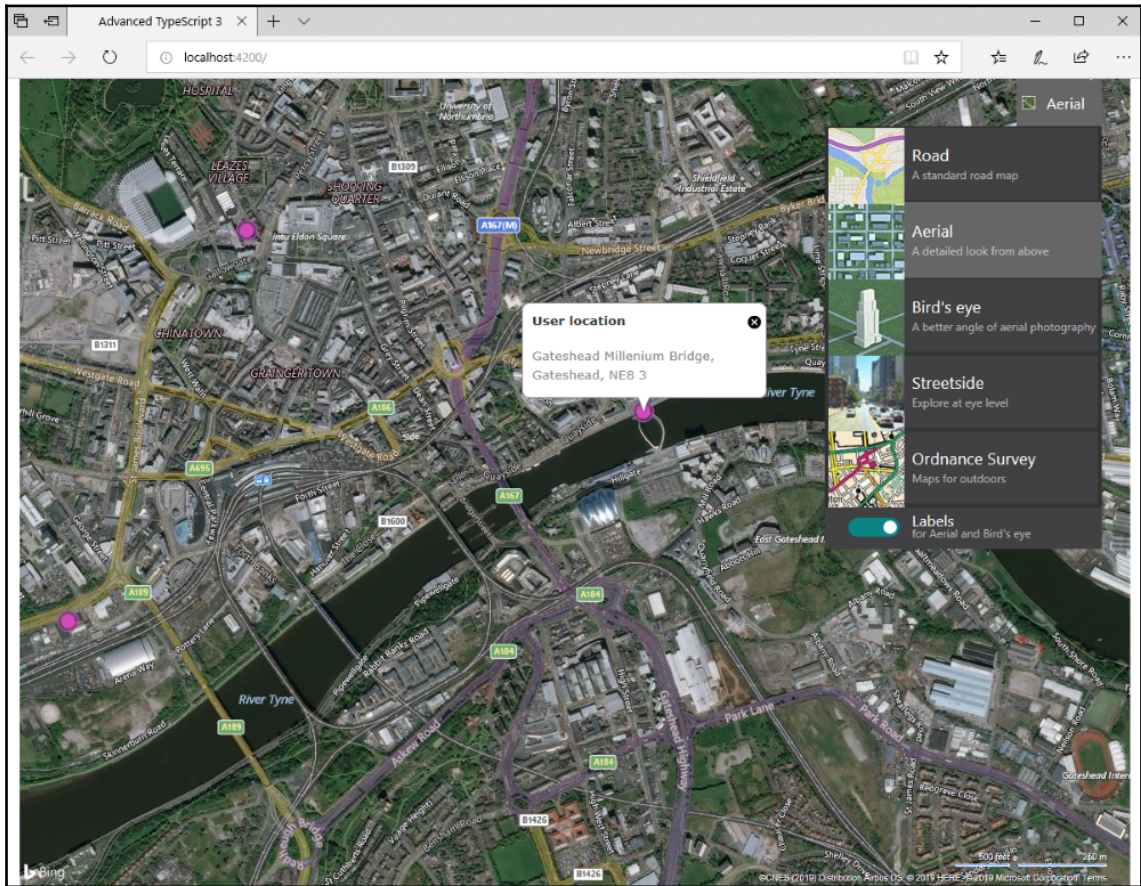
Add a description in less than 140 characters

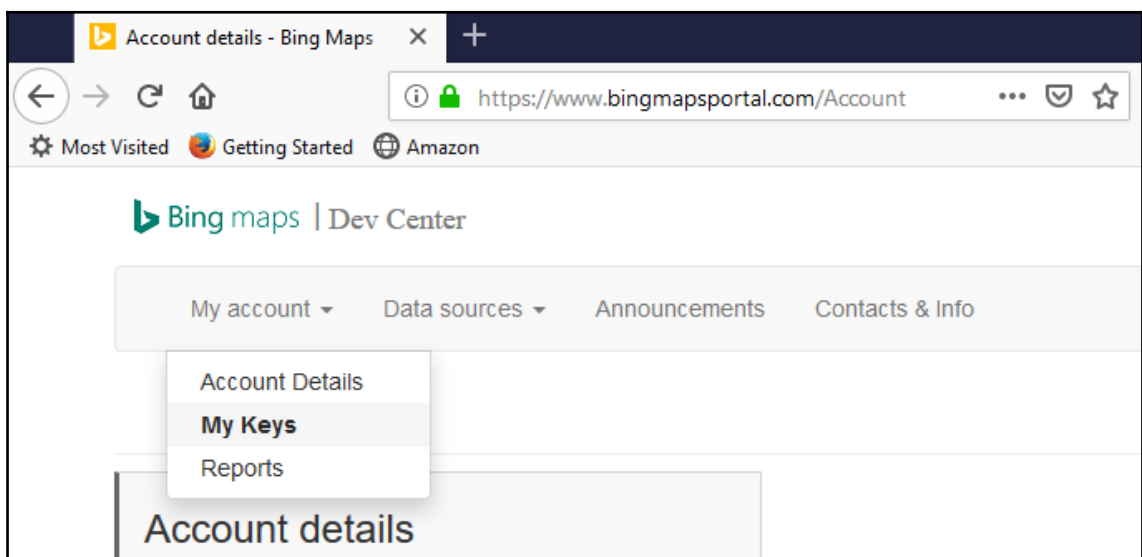
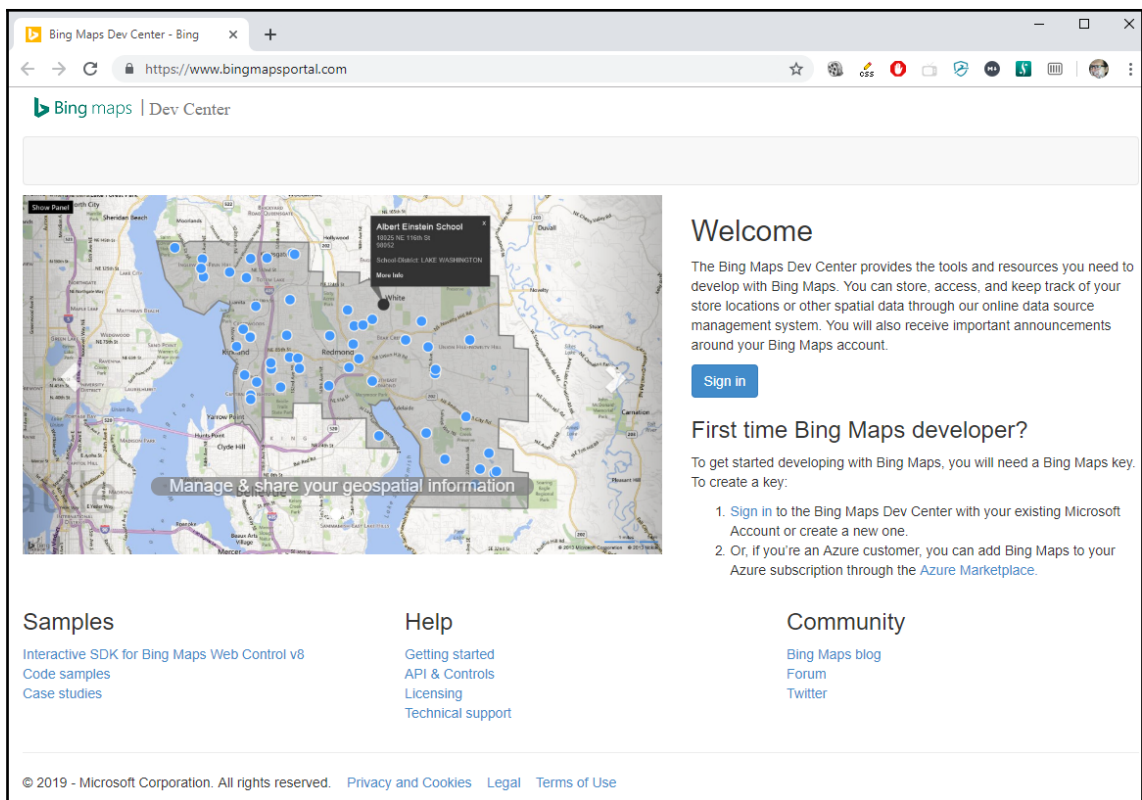
A free text description of the application. Max character count is 140.

[ 12 ]



# Chapter 7: Angular Cloud-Based Mapping with Firebase





Create key - Bing Maps Dev

+

← → ↺

https://www.bingmapsportal.com/Application

☆

🌐

🔧

🔴

📺


🛡️

🌐

📄

👤

⋮

 Bing maps | Dev Center

My account ▾

Data sources ▾

Announcements

Contacts & Info

Sign out

My keys

Create key

Application name \*

TSMapping

Application URL

http://localhost:4200/

Key type \*

Basic ▾

What's This

Application type \*

Dev/Test ▾

Create

Cancel

\* Required field

To create Education, Broadcast or Not-for-Profit keys, please contact the Bing Maps account team at [mpnet@microsoft.com](mailto:mpnet@microsoft.com).

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---

# Welcome to Firebase!

Tools from Google for developing great apps, engaging with your users, and earning more through mobile ads.

 [Learn more](#)    [Documentation](#)    [Support](#)

Your projects using Firebase



Add project






Explore a demo project

## Add a project

Project name

AdvancedTypeScript3-MapApp

 +  + 

Tip: Projects span apps across platforms

Project ID

advancedtypescript3-mapapp

Locations

United States (Analytics)  
nam5 (us-central) (Cloud Firestore)

☒ Use the default settings for sharing Google Analytics for Firebase data

☒ Share your Analytics data with all Firebase features

☒ Share your Analytics data with Google to improve Google Products and Services

☒ Share your Analytics data with Google to enable technical support

☒ Share your Analytics data with Google to enable Benchmarking

☒ Share your Analytics data with Google Account Specialists


☒ I accept the [controller-controller terms](#). This is required when sharing Analytics data to improve Google Products and Services. [Learn more](#)


☒ I agree that I am using Firebase services in my app and I agree to the applicable [terms](#).


Cancel


Create project


Develop


 Authentication

 Database

 Storage

 Hosting

 Functions

 ML Kit

Quality

Crashlytics, Performance, Test Lab

# Cloud Firestore

The next generation of the Realtime Database with more powerful queries and automatic scaling

Create database


## Security rules for Cloud Firestore

After you define your data structure, you will need to write rules to secure your data.  
[Learn more](#)

☒ **Start in locked mode**  
Make your database private by denying all reads and writes

☐ **Start in test mode**  
Get set up quickly by allowing all reads and writes to your database

```
service cloud.firestore {
  match /databases/{database}/documents {
    match /{document=**} {
      allow read, write: if false;
    }
  }
}
```

 All third party reads and writes will be denied

Enabling Cloud Firestore will prevent you from using Cloud Datastore with this project, notably from the associated App Engine app.

CancelEnable

# Get started by adding Firebase to your app

Our core SDK unlocks most Firebase features and includes  
Analytics for iOS and Android apps



Add an app to get started

DataRulesIndexesUsage

Today • 9:41 AM

Apr 14, 2019 • 9:03 AM

⌵ Simulator

1

2

3

4

5

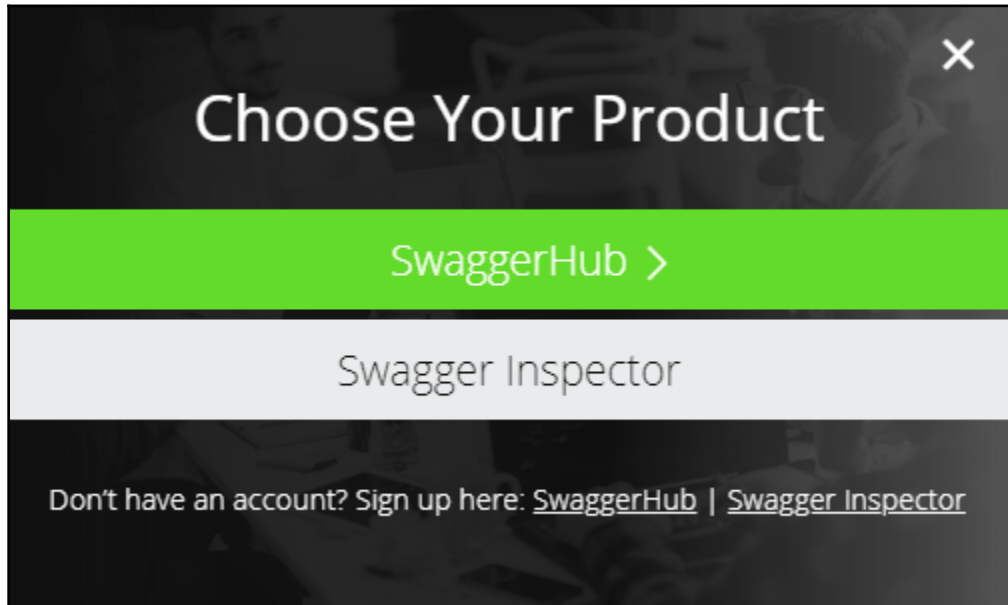
6

7

```
service cloud.firestore {
  match /databases/{database}/documents {
    match /{document=**} {
      allow read, write: if request.auth.uid != null;
    }
  }
}
```

---

## Chapter 8: Building a CRM Using React and Microservices





Select a Template or create a Blank API

Enter a unique name for your API definition below and select a Template  
Select *None* for a Blank API.

OpenAPI Version

2.0

Template

None

Name

AdvancedTypeScript3CRM

Version

1.0

Title

Advanced TypeScript 3 - CRM

Description

Visibility

Public

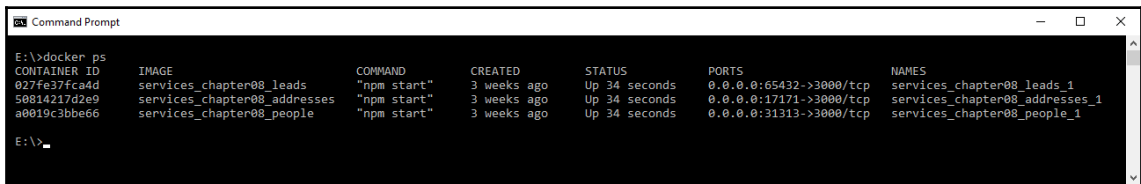
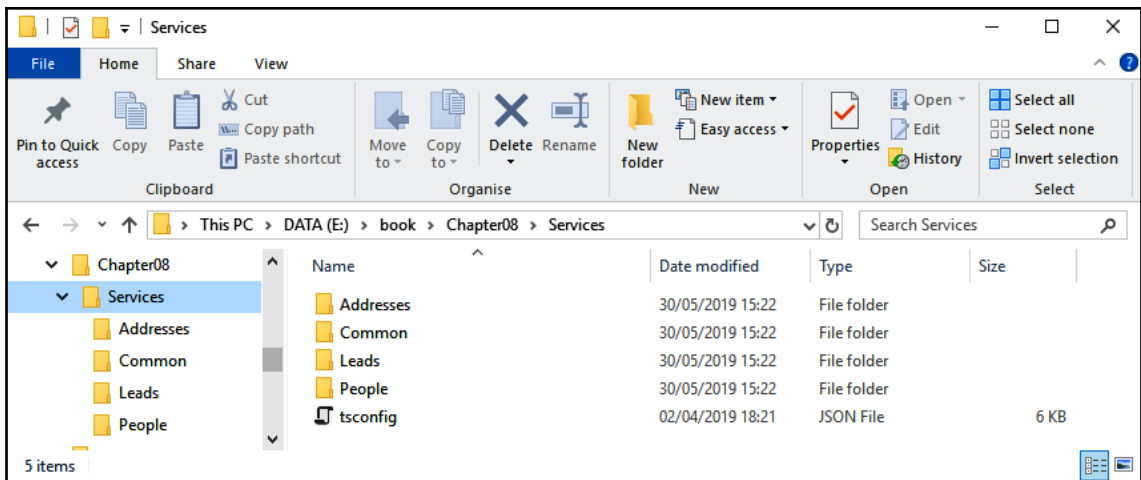
Auto Mock API

ON

CANCEL

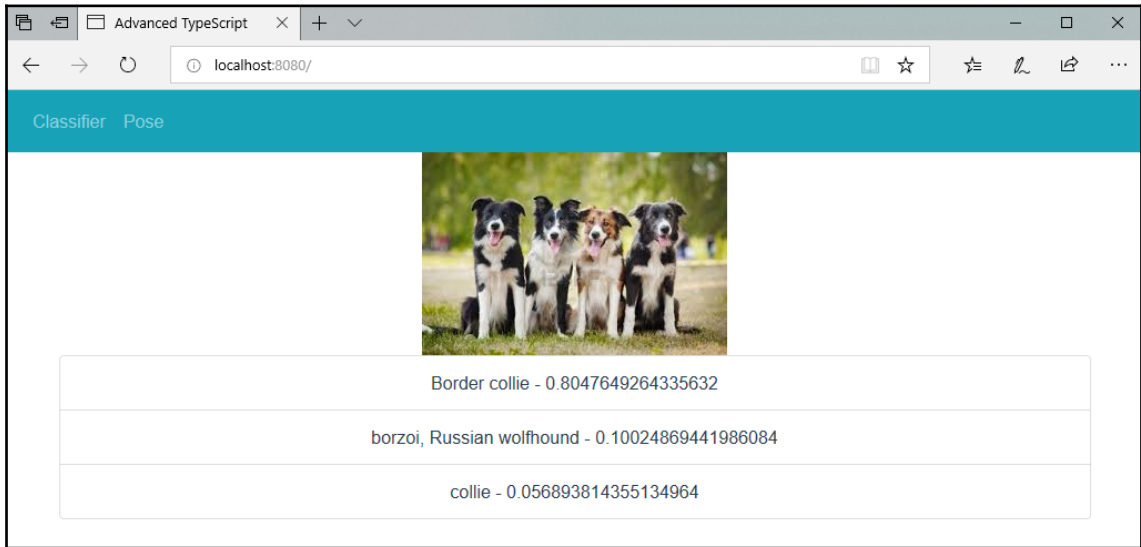
CREATE API





---

## Chapter 9: Image Recognition with Vue.js and TensorFlow.js



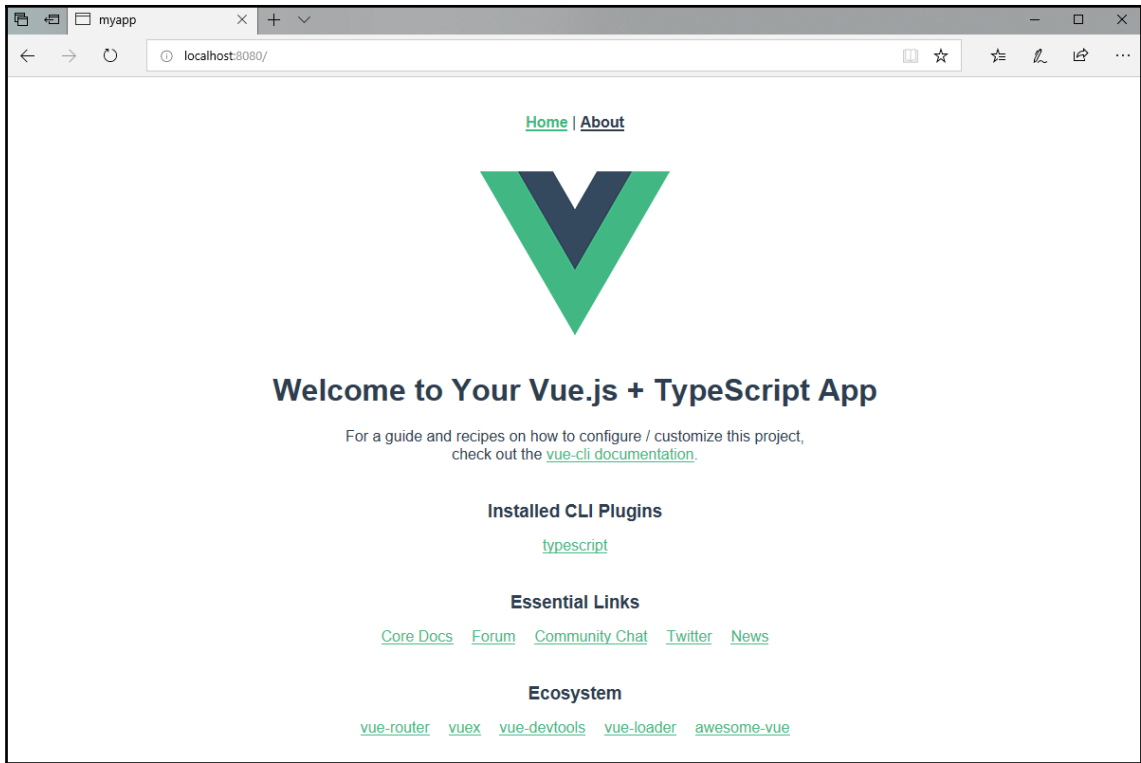
```
x64 Native Tools Command Prompt for VS 2017 - vue create myapp
Vue CLI v3.7.0
Update available: 3.8.2
? Please pick a preset:
  default (babel, eslint)
> Manually select features
```

```
Command Prompt - vue create chapter09

Vue CLI v3.7.0
? Please pick a preset: Manually select features
? Check the features needed for your project:
  ( ) Babel
> (*) TypeScript
  ( ) Progressive Web App (PWA) Support
  (*) Router
  (*) Vuex
  ( ) CSS Pre-processors
  (*) Linter / Formatter
  ( ) Unit Testing
  ( ) E2E Testing
```

```
Command Prompt - vue create chapter09

Vue CLI v3.7.0
? Please pick a preset: Manually select features
? Check the features needed for your project: TS, Router, Vuex, Linter
? Use class-style component syntax? Yes
? Use Babel alongside TypeScript for auto-detected polyfills? No
? Use history mode for router? (Requires proper server setup for index fallback in production) Yes
? Pick a linter / formatter config: TSLint
? Pick additional lint features: (Press <space> to select, <a> to toggle all, <i> to invert selection) Lint on save
? Where do you prefer placing config for Babel, PostCSS, ESLint, etc.? In dedicated config files
? Save this as a preset for future projects? (y/N)
```






Advanced TypeScript

localhost:8080/pose

Classifier Pose

A person is standing in a room, wearing a black t-shirt and black leggings. Red dots are placed on their face, shoulders, elbows, wrists, hips, knees, and ankles, representing pose estimation points. The person is smiling and has their arms slightly out to the sides.

| Confidence         | Part | X                 | Y                 |
|--------------------|------|-------------------|-------------------|
| 0.9988592863082886 | nose | 594.4566286032357 | 72.42671870336335 |

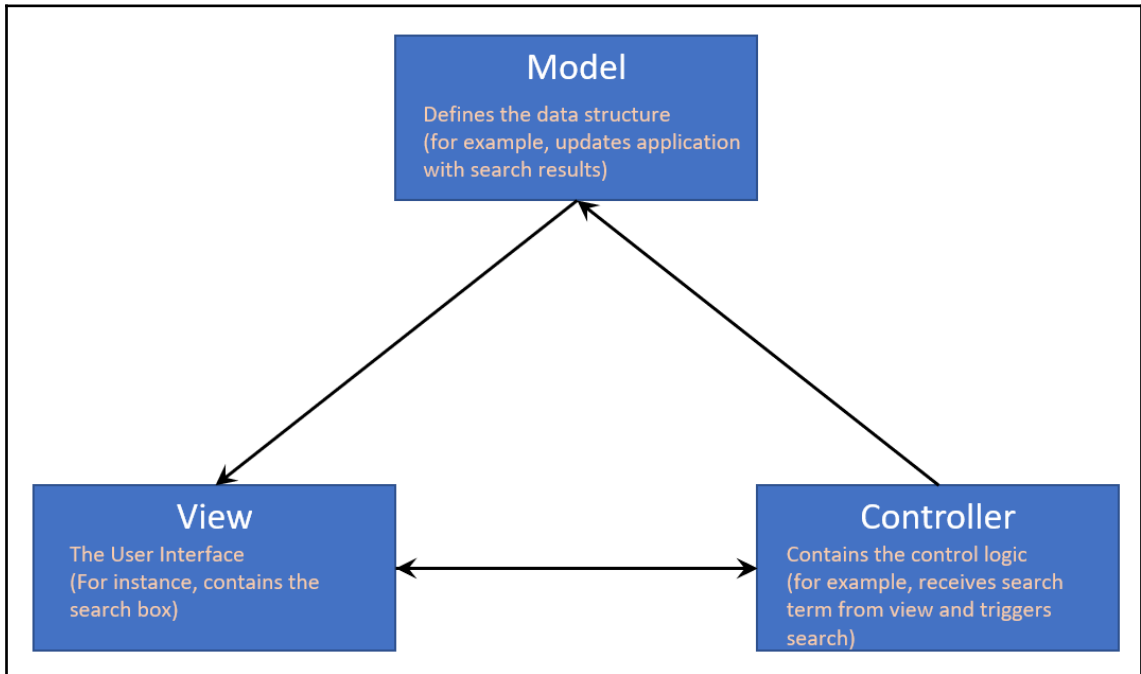


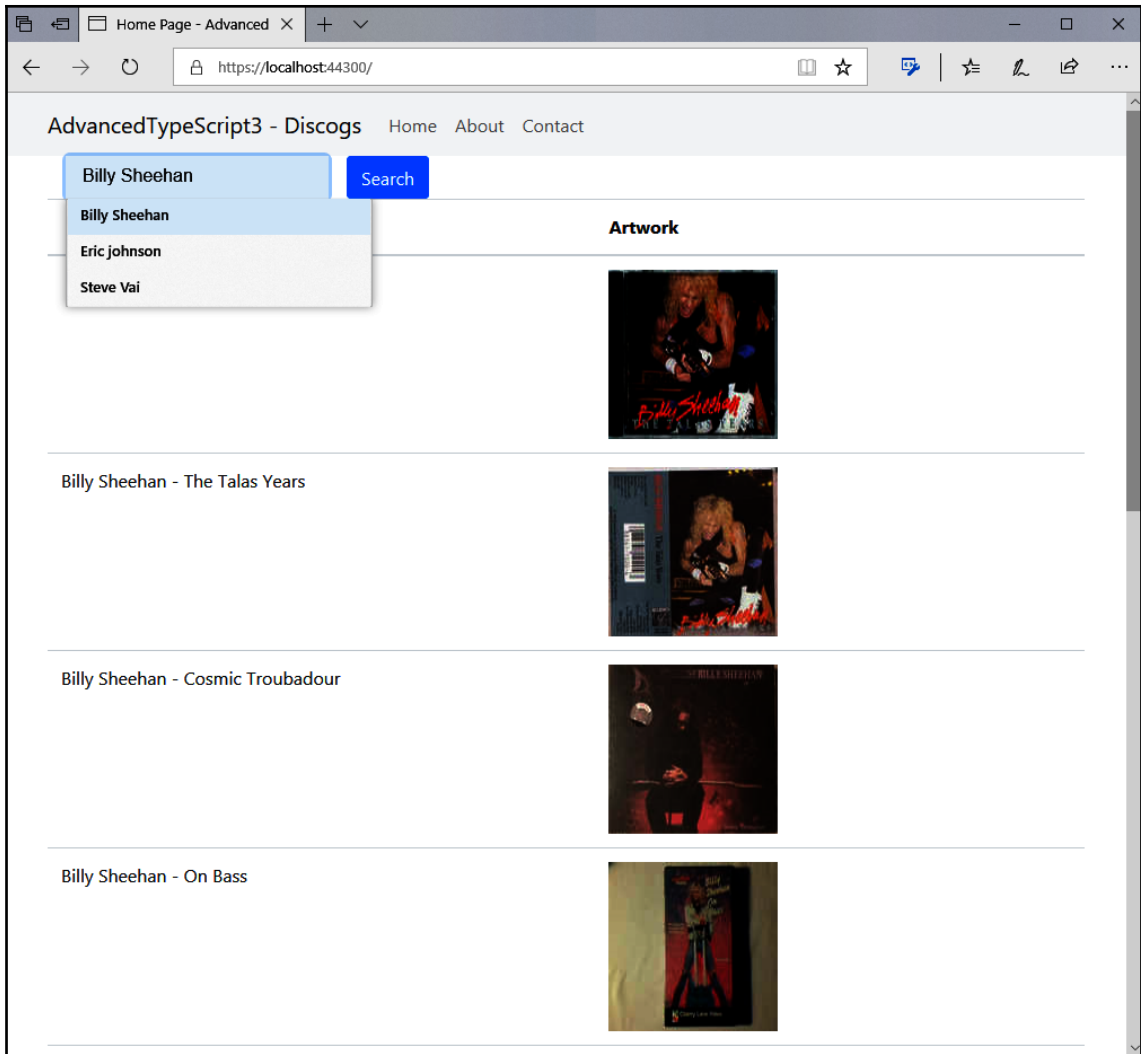
| Score              | Part          | Position  |
|--------------------|---------------|---|
| 0.9987358450889587 | nose          | { "x": 609.2214137265494, "y": 96.3691179405688 }   |
| 0.99735426902771   | leftEye       | { "x": 622.8994848756324, "y": 81.57606888949341 }  |
| 0.9937373399734497 | rightEye      | { "x": 595.8745380678225, "y": 82.42955193675237 }  |
| 0.7634420990943909 | leftEar       | { "x": 640.5678348637753, "y": 93.0896776012568 }   |
| 0.8069733381271362 | rightEar      | { "x": 580.304891705312, "y": 91.04273029180238 }   |
| 0.996222972869873  | leftShoulder  | { "x": 662.522334955997, "y": 168.17369149771218 }  |
| 0.9918087124824524 | rightShoulder | { "x": 562.4284869703837, "y": 169.9369543737757 }  |
| 0.9935077428817749 | leftElbow     | { "x": 676.5773007680755, "y": 256.7679091094156 }  |
| 0.9866399168968201 | rightElbow    | { "x": 541.2397567980607, "y": 262.2065694112806 }  |
| 0.9844734072685242 | leftWrist     | { "x": 694.8799429213217, "y": 337.6351183882807 }  |
| 0.9753631949424744 | rightWrist    | { "x": 513.5915412066557, "y": 347.45533091378143 } |
| 0.9840610027313232 | leftHip       | { "x": 643.1100057309233, "y": 340.3249859456139 }  |
| 0.9862855076789856 | rightHip      | { "x": 572.4433371429701, "y": 336.18741700486543 } |
| 0.9751607775688171 | leftKnee      | { "x": 628.0197683916526, "y": 484.9938084180702 }  |
| 0.9893770217895508 | rightKnee     | { "x": 583.7360967472071, "y": 489.50879807288294 } |
| 0.942963182926178  | leftAnkle     | { "x": 624.272127457051, "y": 612.1918018918363 }   |

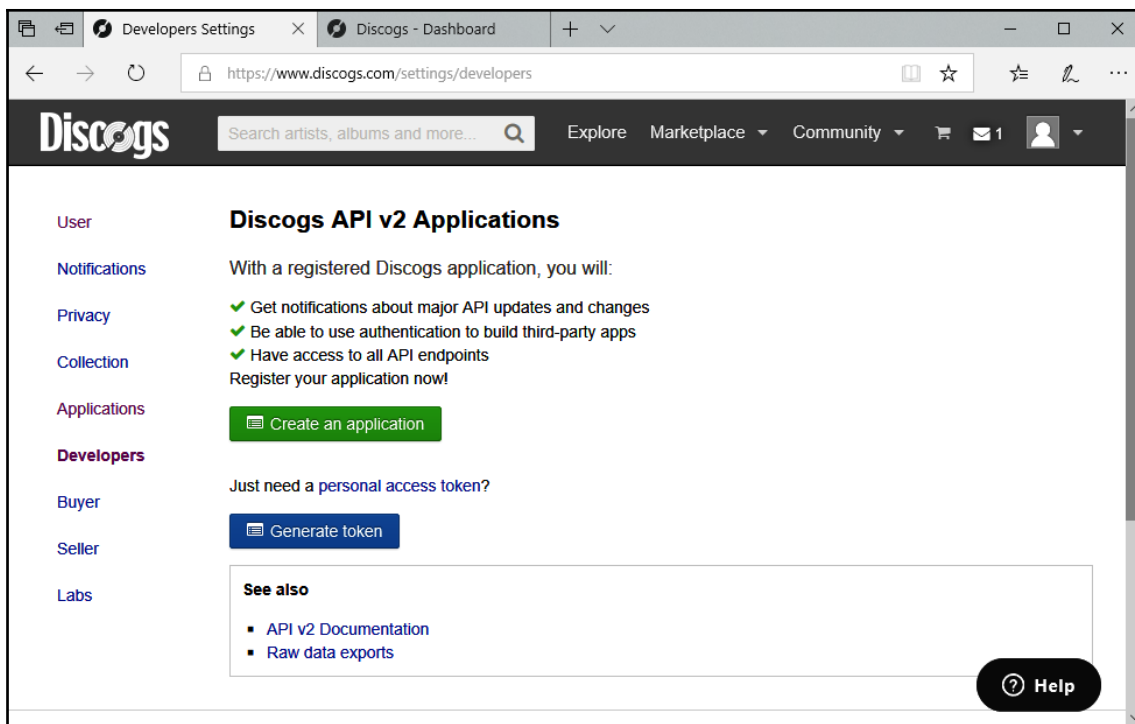
| Confidence         | Part          | X                 | Y                  |
|--------------------|---------------|-------------------|--------------------|
| 0.9987358450889587 | nose          | 609.2214137265494 | 96.3691179405688   |
| 0.99735426902771   | leftEye       | 622.8994848756324 | 81.57606888949341  |
| 0.9937373399734497 | rightEye      | 595.8745380678225 | 82.42955193675237  |
| 0.7634420990943909 | leftEar       | 640.5678348637753 | 93.0896776012568   |
| 0.8069733381271362 | rightEar      | 580.304891705312  | 91.04273029180238  |
| 0.996222972869873  | leftShoulder  | 662.522334955997  | 168.17369149771218 |
| 0.9918087124824524 | rightShoulder | 562.4284869703837 | 169.9369543737757  |
| 0.9935077428817749 | leftElbow     | 676.5773007680755 | 256.7679091094156  |
| 0.9866399168968201 | rightElbow    | 541.2397567980607 | 262.2065694112806  |
| 0.9844734072685242 | leftWrist     | 694.8799429213217 | 337.6351183882807  |
| 0.9753631949424744 | rightWrist    | 513.5915412066557 | 347.45533091378143 |
| 0.9840610027313232 | leftHip       | 643.1100057309233 | 340.3249859456139  |
| 0.9862855076789856 | rightHip      | 572.4433371429701 | 336.18741700486543 |
| 0.9751607775688171 | leftKnee      | 628.0197683916526 | 484.9938084180702  |
| 0.9893770217895508 | rightKnee     | 583.7360967472071 | 489.50879807288294 |
| 0.942963182926178  | leftAnkle     | 624.272127457051  | 612.1918018918363  |

---

## Chapter 10: Building an ASP.NET Core Music Library







# Create a new project

Search for project templates 🔍

Language ▾

Platform ▾

Project type ▾

## Recent project templates



Class Library (.NET Standard)

C#



ASP.NET Core Web Application

C#



Console App (.NET Core)

A project for creating a command-line application that can run on .NET Core on Windows, Linux and MacOS.

C#

Linux

macOS

Windows

Console



ASP.NET Core Web Application

Project templates for creating ASP.NET Core applications for Windows, Linux and macOS using .NET Core or .NET Framework. Create Razor Pages, MVC, Web API, and Single Page (SPA) Applications.

C#

Windows

Linux

macOS

Web



WPF App (.NET Framework)

Windows Presentation Foundation client application

C#

Windows

Desktop



Class Library (.NET Standard)

A project for creating a class library that targets .NET Standard.

C#

Android

iOS

Linux

macOS

Windows

Library



Azure Functions

A template to create an Azure Function project.

C#

Azure

Cloud



Empty Project

Back

Next

---

# Configure your new project

ASP.NET Core Web Application

C#

Windows

Linux

macOS

Web

Project name

Chapter10

Location

e:\Packt\AdvancedTypeScript3

...

Solution name 

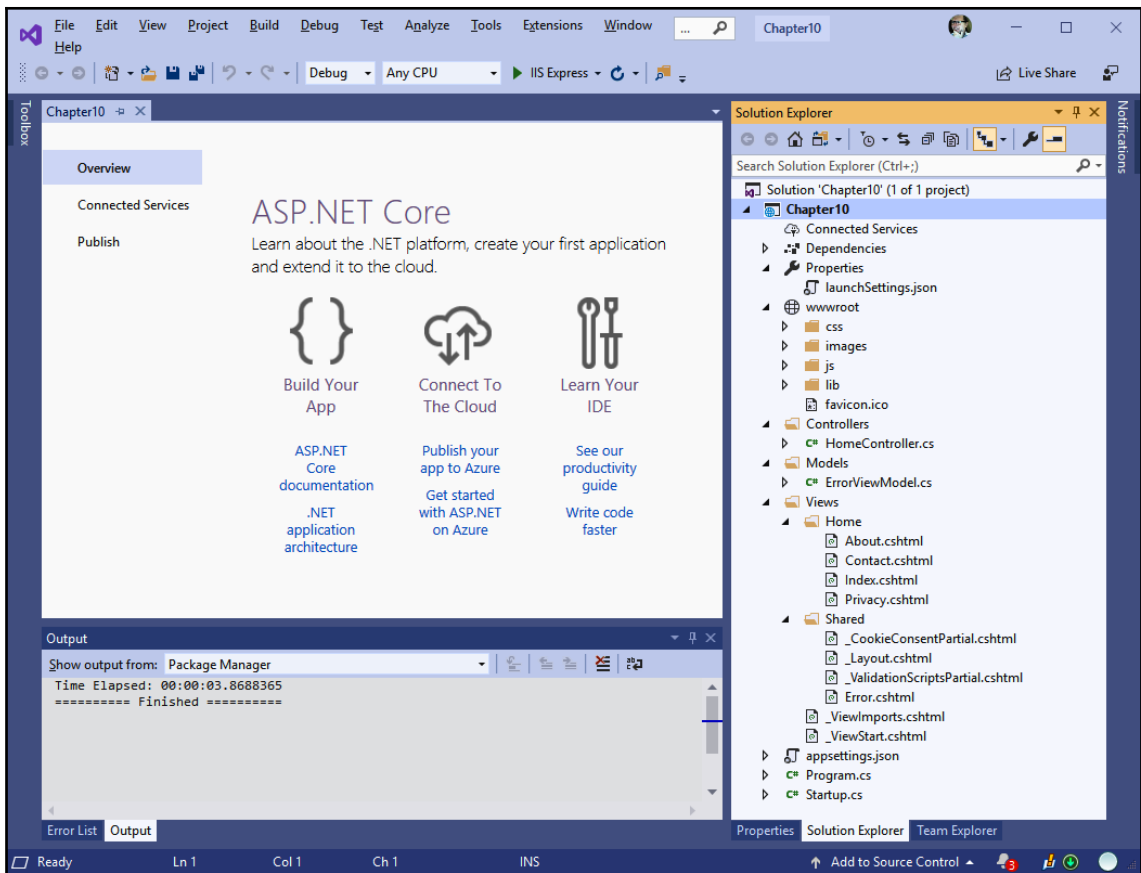
Chapter10

☐

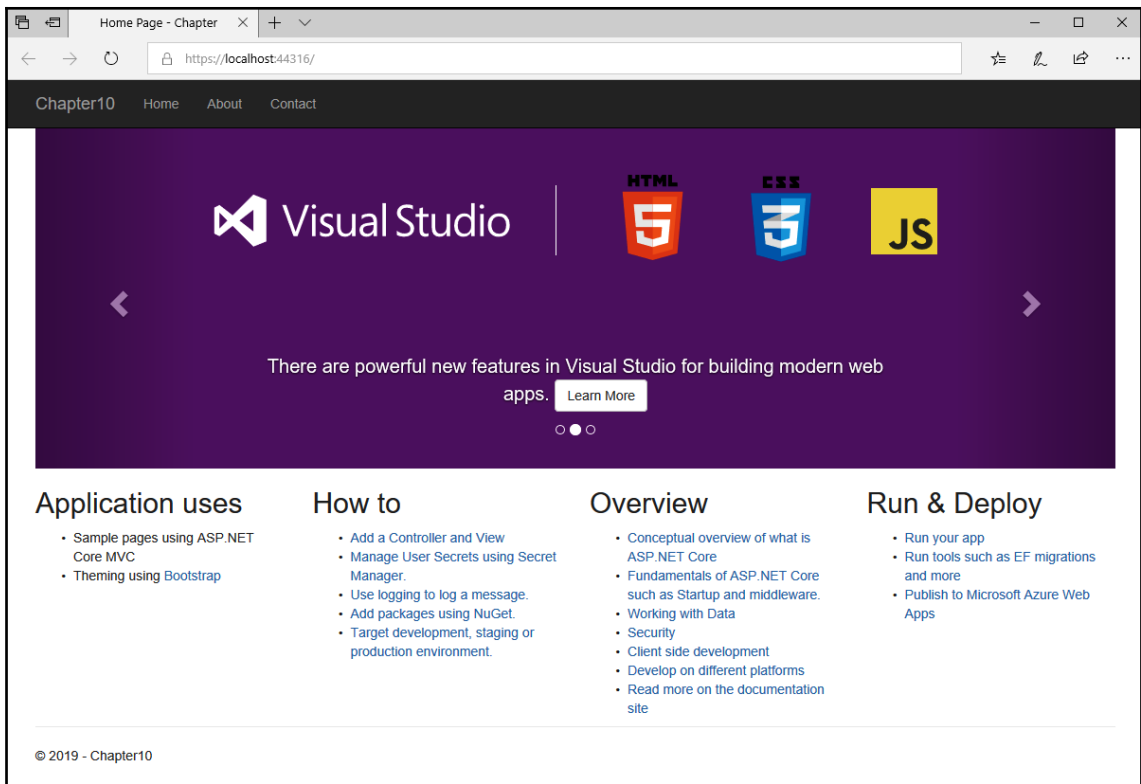
Place solution and project in the same directory

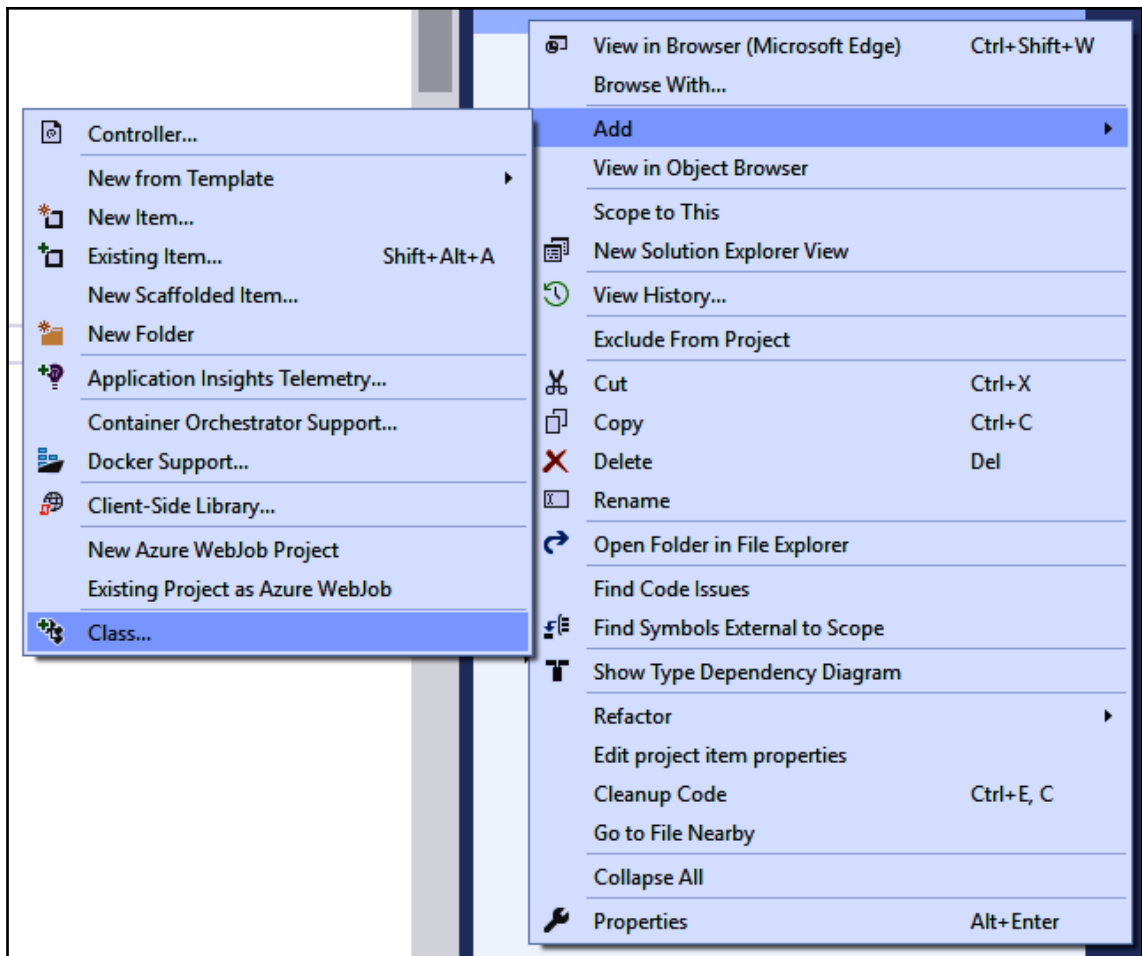
Back

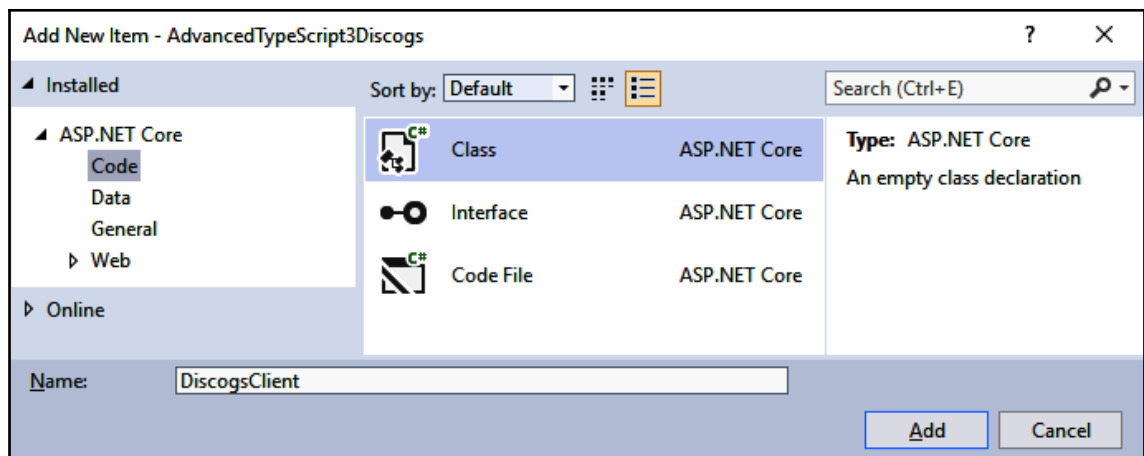
Create











QuickWatch

Expression:

result.ResultsList[0].community

Reevaluate

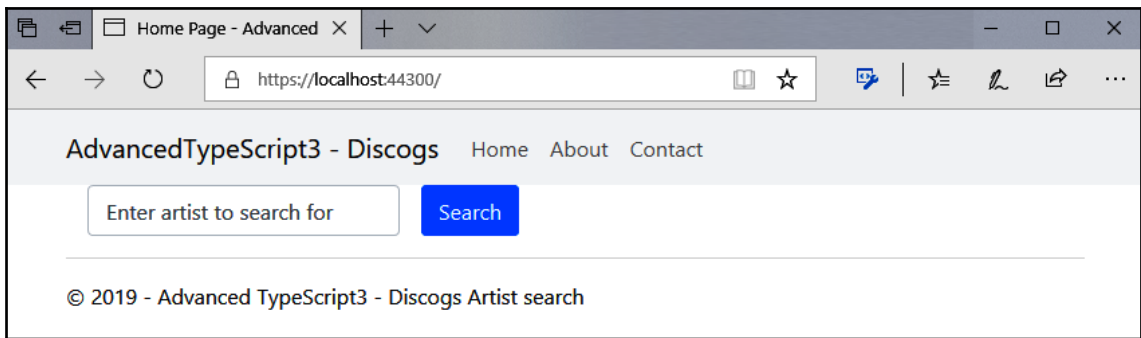
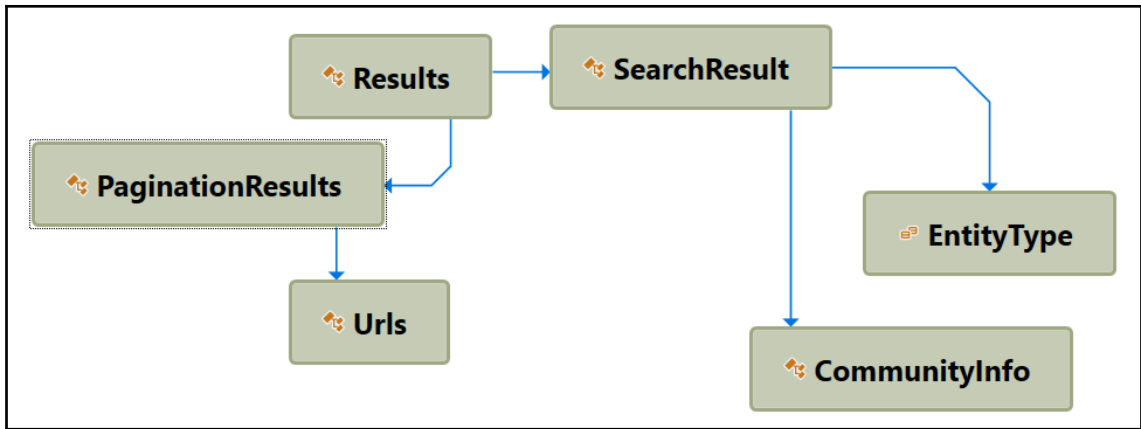
Add Watch

Value:

| Name           | Value   | Type             |
|----------------|---|------------------|
| ▸  Pagination  | {AdvancedTypeScript3Discogs.Models.Discogs.OuterRe... | AdvancedTypeS... |
| ▸  ResultsList | {AdvancedTypeScript3Discogs.Models.Discogs.SearchR... | AdvancedTypeS... |
| ▸  [0]         | {AdvancedTypeScript3Discogs.Models.Discogs.SearchR... | AdvancedTypeS... |
| ▸  BarCode     | {string[6]}   | string[]         |
| CatalogNumber  | "88561-1037-2"  | string           |
| Country        | "US"  | string           |
| ▸  Format      | {string[2]}   | string[]         |
| [0]            | "CD"  | string           |
| [1]            | "Album"   | string           |
| ▸  Genre       | {string[1]}   | string[]         |
| [0]            | "Rock"  | string           |
| Id             | 44477   | int              |
| ▸  Label       | {string[6]}   | string[]         |
| [0]            | "Relativity"  | string           |
| [1]            | "Relativity Records, Inc."                            | string           |
| [2]            | "Relativity Records, Inc."                            | string           |
| [3]            | "SyVy Music, Inc."                                    | string           |
| [4]            | "The Mothership"                                      | string           |
| [5]            | "PDO, USA"  | string           |
| ResourceUrl    | "https://api.discogs.com/masters/44477"               | string           |
| ▸  Style       | {string[2]}   | string[]         |
| [0]            | "Hard Rock"   | string           |
| [1]            | "Pop Rock"  | string           |
| Thumb          | "https://img.discogs.com/YRKghuiJuEylGu3GZwP..."      | string           |
| Title          | "Steve Vai - Passion And Warfare"                     | string           |
| Type           | master  | AdvancedTypeS... |
| Uri            | "/Steve-Vai-Passion-And-Warfare/master/44477"         | string           |
| Year           | 1990  | int?             |
| ▸  community   | {AdvancedTypeScript3Discogs.Models.Discogs.Commu...   | AdvancedTypeS... |
| Have           | 5621  | int              |
| Want           | 1177  | int              |

Close

Help



Home Page - Advanced

+

⌵

←

→

↺

https://localhost:44300/

📖

☆

🔍

🔖

🔗

⋮

AdvancedTypeScript3 - Discogs

Home

About

Contact

Enter artist to search for

Search

| Title   | Artwork   |
|---|---|
| ZZ Top - Rocking The Castle                     | <a href="https://api.discogs.com/masters/928299">https://api.discogs.com/masters/928299</a>   |
| ZZ Top - Chrome, Smoke & B-B-Q - The ZZ Top Box | <a href="https://api.discogs.com/masters/409300">https://api.discogs.com/masters/409300</a>   |
| ZZ Top - Burger Man                             | <a href="https://api.discogs.com/masters/327288">https://api.discogs.com/masters/327288</a>   |
| ZZ Top - Foolish Kings                          | <a href="https://api.discogs.com/masters/427781">https://api.discogs.com/masters/427781</a>   |
| ZZ Top - Gimme All Your Lovin' · Sleeping Bag   | <a href="https://api.discogs.com/masters/567405">https://api.discogs.com/masters/567405</a>   |
| ZZ Top - Double Down Live 1980 ★ 2008           | <a href="https://api.discogs.com/masters/790882">https://api.discogs.com/masters/790882</a>   |
| ZZ Top - Fandango / Afterburner                 | <a href="https://api.discogs.com/masters/1174548">https://api.discogs.com/masters/1174548</a> |
| ZZ Top - First Album / Recycler                 | <a href="https://api.discogs.com/masters/1174557">https://api.discogs.com/masters/1174557</a> |
| ZZ Top - The ZZ Top Sixpack                     | <a href="https://api.discogs.com/masters/91861">https://api.discogs.com/masters/91861</a>     |
| ZZ Top - Francene                               | <a href="https://api.discogs.com/masters/371880">https://api.discogs.com/masters/371880</a>   |

© 2019 - Advanced TypeScript3 - Discogs Artist search




Home Page - Advanced

https://localhost:44300/

AdvancedTypeScript3 - DiscogsHomeAboutContact

Enter artist to search for

Search

| Title   | Artwork  |
|---|--|
| ZZ Top - Rocking The Castle                     |   |
| ZZ Top - Chrome, Smoke & B-B-Q - The ZZ Top Box |   |
| ZZ Top - Burger Man                             |  |
| ZZ Top - Foolish Kings                          |  |