The Explanation

Installing docker

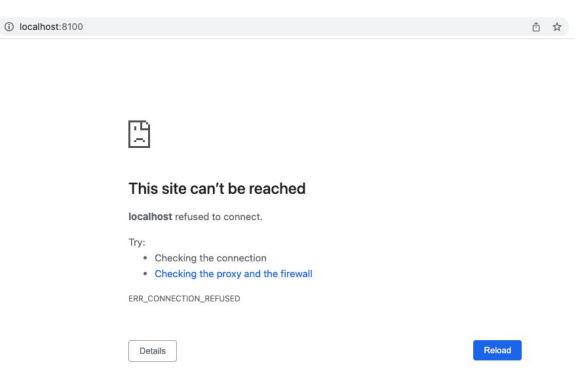
Navigate to project folder and run 'docker-compose up -d --build'

Confirmed build completed successfully and that image and container are up and running

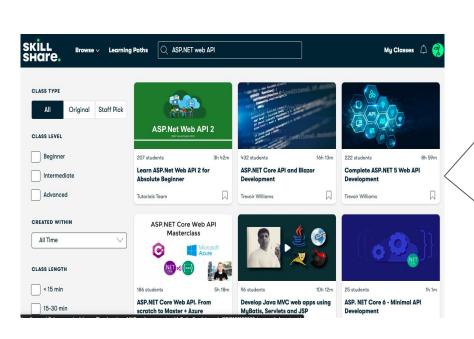
```
ChristophersAir: Assess-API-d8eh-1-master 2 christopherwamble$ docker-compose up -d --build
 # db Pulled
                                                                                                                                                       74.28
   # 09db6f815738 Pull complete
                                                                                                                                                       11.9s
   # e5262d692eef Pull complete
                                                                                                                                                       12.3s
   # 96c1b6a2446e Pull complete
                                                                                                                                                       30.3s
   # 2b0f146fd8bc Pull complete
                                                                                                                                                       47.1s
   # 9815c4e697db Pull complete
                                                                                                                                                       50.1s
   # f07e4d500d49 Pull complete
                                                                                                                                                       50.48
   # b8d2a0fd6a53 Pull complete
                                                                                                                                                       57.0s
   # 6d216eda4087 Pull complete
                                                                                                                                                       57.2s
   # 597f65ab38a9 Pull complete
                                                                                                                                                       59.48
   # 134e4530fa26 Pull complete
                                                                                                                                                       59.5s
[+] Building 2.0s (17/17) FINISHED
 => [internal] load build definition from Dockerfile
                                                                                                                                                       0.1s
 => => transferring dockerfile: 115B
                                                                                                                                                       0.0s
 => [internal] load .dockerignore
                                                                                                                                                       0.1s
 => => transferring context: 2B
                                                                                                                                                       0.05
 => [internal] load metadata for mcr.microsoft.com/dotnet/core/sdk:3.1
 => [internal] load metadata for mcr.microsoft.com/dotnet/core/aspnet:3.1
                                                                                                                                                       1.2s
 => [build 1/5] FROM mcr.microsoft.com/dotnet/core/sdk:3.1@sha256:dc647bd128c4657620d870524443769a7e045b42987af51b55aab2bc1aaa0ce5
                                                                                                                                                       0.0s
 => [runtime 1/6] FROM mcr.microsoft.com/dotnet/core/aspnet:3.1@sha256:3742c3450bdd1674f07f9e4e3dbd06ff96c3e3eabfa3280503147acc514c7329
                                                                                                                                                       0.0s
 => [internal] load build context
                                                                                                                                                       0.1s
 => => transferring context: 6.08kB
                                                                                                                                                       0.0s
 => CACHED [runtime 2/6] WORKDIR /app
                                                                                                                                                       0.0s
 => CACHED [build 2/5] WORKDIR /app
                                                                                                                                                       0.0s
 => CACHED [build 3/5] COPY . ./AppCode/
                                                                                                                                                       0.0s
 => CACHED [build 4/5] WORKDIR /app/AppCode/AppCode.Dev
                                                                                                                                                       0.0s
 => CACHED [build 5/5] RUN dotnet publish -c Release -o publishedOutput
                                                                                                                                                       0.05
 => CACHED [runtime 3/6] COPY --from=build /app/AppCode/AppCode.Dev/publishedOutput .
                                                                                                                                                       0.05
 => CACHED [runtime 4/6] RUN touch appExecutor.sh
 => CACHED [runtime 5/6] RUN echo "dotnet AppCode.Dev.dll" >> appExecutor.sh
                                                                                                                                                       0.0s
 => CACHED [runtime 6/6] RUN chmod +x appExecutor.sh
                                                                                                                                                       0.0s
 => exporting to image
                                                                                                                                                       0.1s
 => => exporting layers
 => => writing image sha256:cda084f4c8cb361de51f12072b4dceaea2d2a09749dc1e7f38dd9e89d7fea6a9
                                                                                                                                                       0.0s
 => => naming to docker.io/library/assess-api-d8eh-1-master2-api
                                                                                                                                                       0.05
[+] Running 2/2
 # Container app_code_db Started
                                                                                                                                                       2.0s
 # Container app_code_api Started
                                                                                                                                                       2.1s
[ChristophersAir:Assess-API-d8eh-1-master 2 christopherwamble$
ChristophersAir: Assess-API-d8eh-1-master 2 christopherwamble$
ChristophersAir: Assess-API-d8eh-1-master 2 christopherwamble$
ChristophersAir: Assess-API-d8eh-1-master 2 christopherwamble$
ChristophersAir: Assess-API-d8eh-1-master 2 christopherwamble$ docker
[^CChristophersAir:Assess-API-d8eh-1-master 2 christopherwamble$
[ChristophersAir:Assess-API-d8eh-1-master 2 christopherwamble$
ChristophersAir: Assess-API-d8eh-1-master 2 christopherwamble$ docker image 1s
                                             IMAGE ID
                                                             CREATED
assess-api-d8eh-1-master2-api
                                   latest
                                             cda084f4c8cb
mcr.microsoft.com/azure-sql-edge
                                   latest
                                             319cbee6d571
                                                            3 months ago
```

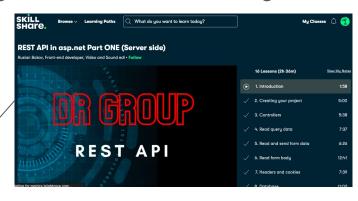
Launch http://localhost:8100

No such page, unable to view Swagger.UI documentation



Since I'm not experienced in coding ASP.NET or coding APIs, I reviewed ASP.NET tutorials from my personal skillshare account to get a better understanding.







What Worked

Downloaded Visual Studios for

Mac (Intel Chip), version 2022

Opened the project, compiled it, ran it

Able to get generated webpage in the project successfully

Hello

△ ☆

```
Debug > [] Google Chrome
                                                                                   AppCode
(i) Enjoying Visual Studio? Please take a quick survey to let us know how we're doing. Don't Show Again Not Now Give Feedback
      Startup.cs
                                     CityController.cs
                                                         AppDbContext.cs
                                                                             UserController.cs × index.html
                                                                                                                         Solution
          <!DOCTYPE html>
                                                                                                                          ∨ ■ AppCode
           <html lang="en">
                                                                                                                           <meta charset="UTF-8">
                                                                                                                              Connected Services
               <title>Code Assessment</title>
                                                                                                                              Controllers
              <img src="/assets/hello.svg" style="opacity:.2;position:absolute;width:600px;transform:translate3d(-50</pre>
                                                                                                                                 CityController.cs
                                                                                                                                ■ UserController.cs
                                                                                                                             > Data
                                                                                                                             ∨ Database
                                                                                                                                AppDbContext.cs
                                                                                                                             > Properties
                                                                                                                              > Services
                                                                                                                             ∨ www.root

√ ■ assets

                                                                                                                                  hello.svg
                                                                                                                                index.html
                                                                                                                               Program.cs
                                                                                                                               Startup.cs
```

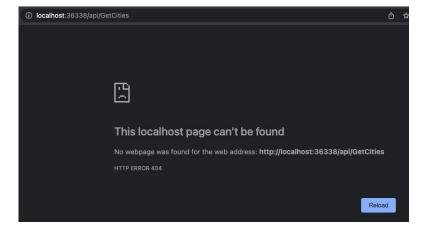
① localhost:36338

But also, what didn't work

Attempted to append the API call for GetCities

Expected to see a list of existing cities, or a response that there are no cities.

Response was localhost page can't be found



While going through the tutorial walkthroughs on Skillshare, I attempted to compare any useful information with the code I was presented.

It appears to me I would need to write out code that is missing from some of the methods provided. This may include having to add Route headers and going down a deeper rabbit hole of understanding the relationship of the Controllers with the Data Entities, Models, and Repositories, and how they all funnel into the Database for storage, modification, and retrieval.

I feel at this point, without an experienced programmer to help guide me through the coding, it would take me more than the allotted time of 1 week to complete this project.

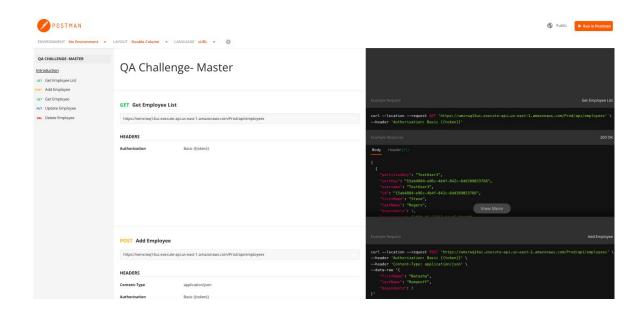


What I would do in a Perfect World

Accessible API

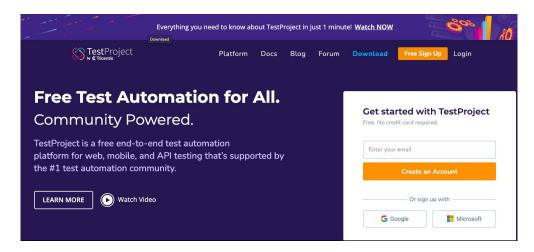
Easy access to API documentation

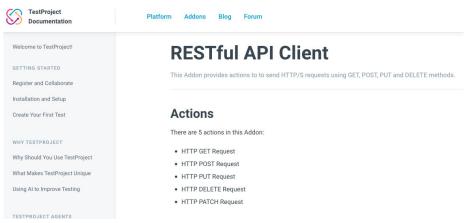
Given an auth token or an API call to extract a token



Tool I would use

TestProject.io utilizing its RESTful API Client Addon microservices





https://docs.testproject.io/testproject-addons/available-addons/restful-api-client-addon

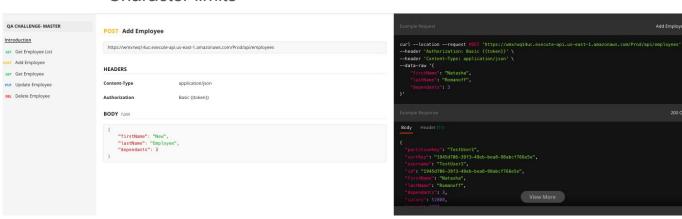
Task 1: Create User Account

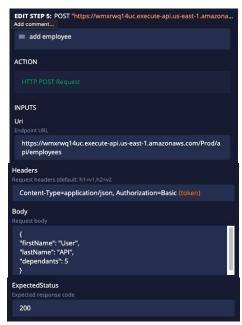
API for Create User Account would have a format like the following:

- POST Add Employee => POST Add User
- firstName => Name (String)
- lastName => Email (String)
- Dependents => Password (String)

Create a step to invoke the call and confirm a 200 status

- Errors from incorrect input (int instead of String)
- Submit empty values and confirm an error code response
- Character limits





Task 1A: Login Authentication

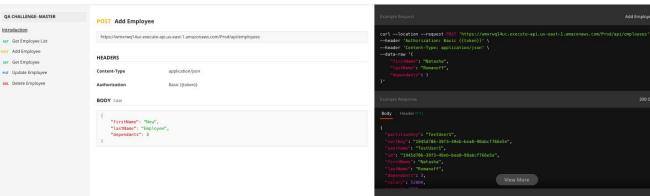
API for Login User would have a format like the following:

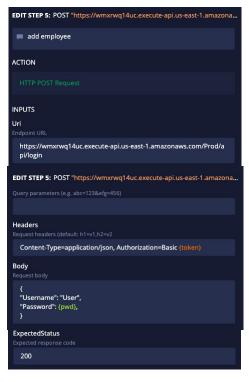
- POST Add Employee => POST Login User
- firstName => Username (String)
- lastName => Password (String)

Create a step to invoke the call and confirm a 200 status for an existing user

Create a step to invoke the call and confirm an error code for a non-existent user

- Errors from incorrect input (int instead of String)
- Submit empty values and confirm an error code response
- Character limits





Task 2: Remove City

API for Delete City would have a format like the following:

- DEL Delete Employee => DEL Delete City
- Use route '/api/cities/{id}'

Create a step to invoke the call and confirm a 200 status that a city was created

- No id in url
- Enter characters as an id
- Enter non-existent id





Task 2: Retrieve City

API for Retrieve City would have a format like the following:

- GET Get Employee => GET Get City
- Use route '/api/cities/{id}'

Create a step to invoke the call and confirm a 200 status that a city was created

- No id in url
- Enter characters as an id
- Enter non-existent id



