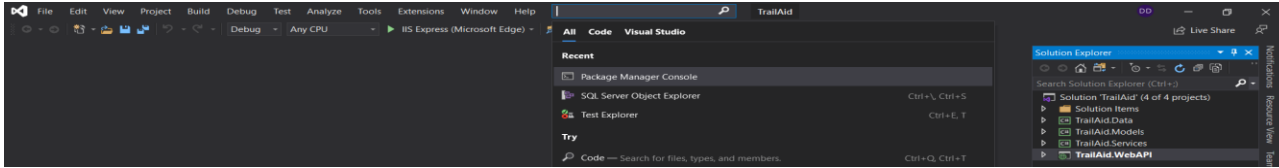


Before starting up the API in Visual Studio, the State Database needs to be updated.

At the top Search Bar, select: Package Manager Console:

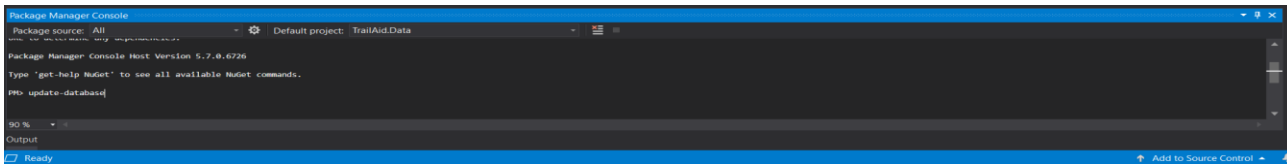


This creates a Package Manager Console window (usually at the bottom of the program window).

In the Package Manager Console window, under Default Project, select TrailAid.Data.

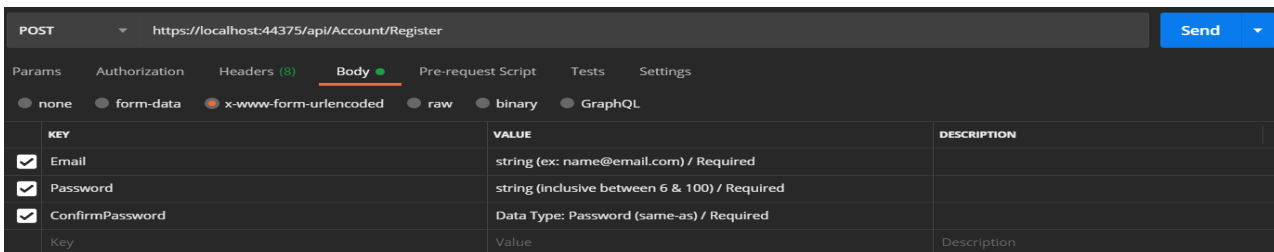
Next to PM>, type: update-database

Hit: Enter & the States will be Updated to the Database.

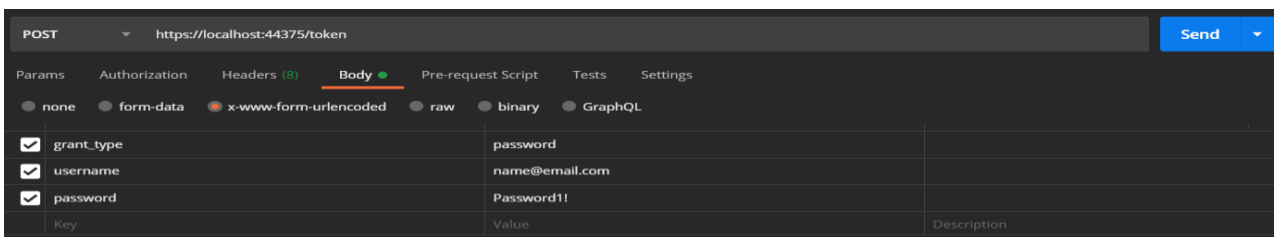


You can now run the API & begin accessing it with Postman.

Using Postman, Register an account ([https:// ... /api/Account/Register](https://.../api/Account/Register)):



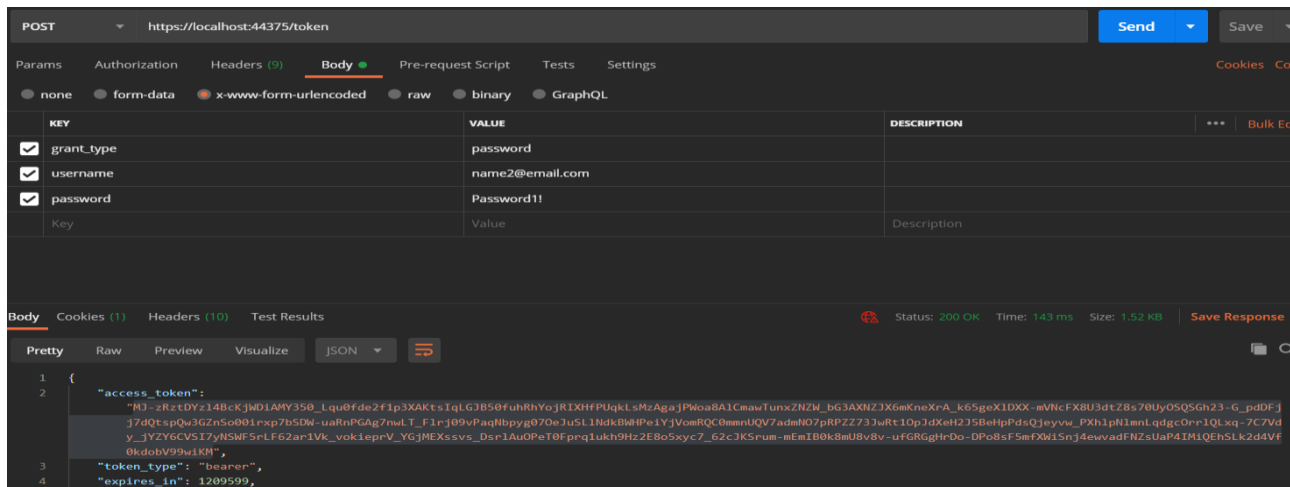
Generate a token ([https:// ... /token](https://.../token)):



The grant_type is password. The username is the Email entered in the Account Register.

The password is the Password entered in the Account Register.

This will create a token:



POST <https://localhost:44375/token> Send Save

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies Co

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> grant_type	password	
<input checked="" type="checkbox"/> username	name2@email.com	
<input checked="" type="checkbox"/> password	Password1!	
Key	Value	Description

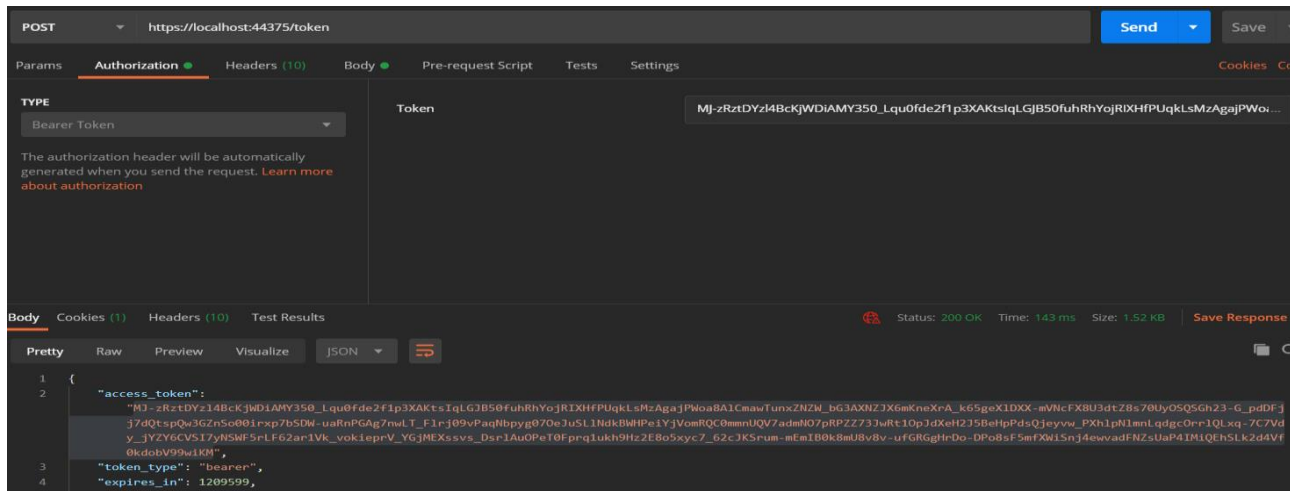
Body Cookies (1) Headers (10) Test Results Status: 200 OK Time: 143 ms Size: 1.52 KB Save Response

Pretty Raw Preview Visualize **JSON**

```
1 {
2   "access_token":
3     "MJ-zRztDYz14BcKjWd1AMY350_Lqu0fde2f1p3XAKtsIqLGJB50FuhRhYoJRIXHfPUqkLsMzAgaJPWoa8A1CmawTunxZNZW_bG3AXN2JX6mKneXrA_k65geX1DXX-mVNcFX8U3dtZ8s70UyOSQSGh23-G_pDfJj7dQtspQv3GZnSo081rxp7b5DW-uaRnPGAg7nwlT_F1r-j09vPaqNbpyg070eJuSL1NdkBMPe1YjVomRQC0mmnUQV7admN07pRPZ273JwRt10pJdXeH2J5BeHpPdsQjeyvw_PXh1pN1mLqdgC0rr1QLxq-7C7Vdy_jYZY6CVS17yNSWF5rLF62ar1Vke_vok1eprV_YGjMEKssvs_Dsr1Au0PeT0fprq1ukh9Hz2E8o5xyc7_G2cJKSrum-mE1B0k8mU8v8v-ufGRGgHrDo-DP08sF5mFXN1SnJ4ewvadFNZsUaP4IM1QEHSLk2d4Vf0kdobV99w1KH",
4   "token_type": "bearer",
5   "expires_in": 1209599,
```

Any tabs from here on will need to have this token placed in the Authorization.

Copy the token (between the quotations). In the Authorization tab, select Bearer Token, & paste the information into the space for Token:



POST <https://localhost:44375/token> Send Save

Params **Authorization** Headers (10) Body Pre-request Script Tests Settings Cookies Co

TYPE
Bearer Token

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

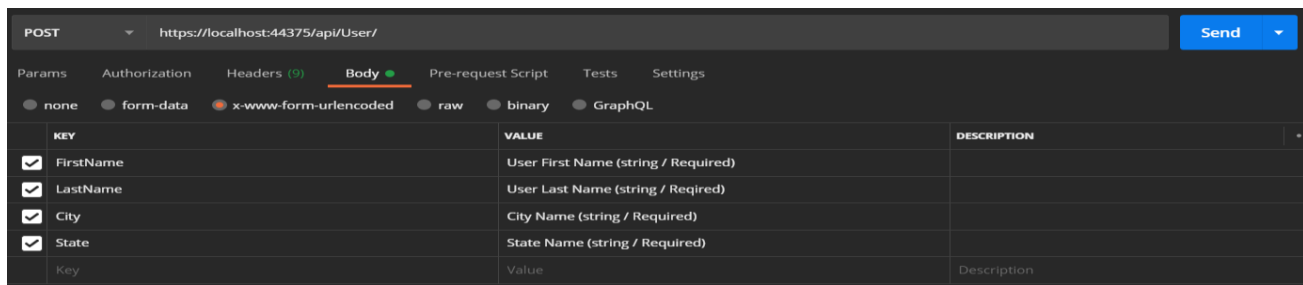
Token
MJ-zRztDYz14BcKjWd1AMY350_Lqu0fde2f1p3XAKtsIqLGJB50FuhRhYoJRIXHfPUqkLsMzAgaJPWoa8A1CmawTunxZNZW_bG3AXN2JX6mKneXrA_k65geX1DXX-mVNcFX8U3dtZ8s70UyOSQSGh23-G_pDfJj7dQtspQv3GZnSo081rxp7b5DW-uaRnPGAg7nwlT_F1r-j09vPaqNbpyg070eJuSL1NdkBMPe1YjVomRQC0mmnUQV7admN07pRPZ273JwRt10pJdXeH2J5BeHpPdsQjeyvw_PXh1pN1mLqdgC0rr1QLxq-7C7Vdy_jYZY6CVS17yNSWF5rLF62ar1Vke_vok1eprV_YGjMEKssvs_Dsr1Au0PeT0fprq1ukh9Hz2E8o5xyc7_G2cJKSrum-mE1B0k8mU8v8v-ufGRGgHrDo-DP08sF5mFXN1SnJ4ewvadFNZsUaP4IM1QEHSLk2d4Vf0kdobV99w1KH

Body Cookies (1) Headers (10) Test Results Status: 200 OK Time: 143 ms Size: 1.52 KB Save Response

Pretty Raw Preview Visualize **JSON**

```
1 {
2   "access_token":
3     "MJ-zRztDYz14BcKjWd1AMY350_Lqu0fde2f1p3XAKtsIqLGJB50FuhRhYoJRIXHfPUqkLsMzAgaJPWoa8A1CmawTunxZNZW_bG3AXN2JX6mKneXrA_k65geX1DXX-mVNcFX8U3dtZ8s70UyOSQSGh23-G_pDfJj7dQtspQv3GZnSo081rxp7b5DW-uaRnPGAg7nwlT_F1r-j09vPaqNbpyg070eJuSL1NdkBMPe1YjVomRQC0mmnUQV7admN07pRPZ273JwRt10pJdXeH2J5BeHpPdsQjeyvw_PXh1pN1mLqdgC0rr1QLxq-7C7Vdy_jYZY6CVS17yNSWF5rLF62ar1Vke_vok1eprV_YGjMEKssvs_Dsr1Au0PeT0fprq1ukh9Hz2E8o5xyc7_G2cJKSrum-mE1B0k8mU8v8v-ufGRGgHrDo-DP08sF5mFXN1SnJ4ewvadFNZsUaP4IM1QEHSLk2d4Vf0kdobV99w1KH",
4   "token_type": "bearer",
5   "expires_in": 1209599,
```

Create a User ([https:// ... /api/User/](https://.../api/User/)):



POST <https://localhost:44375/api/User/> Send Save

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> FirstName	User First Name (string / Required)	
<input checked="" type="checkbox"/> LastName	User Last Name (string / Required)	
<input checked="" type="checkbox"/> City	City Name (string / Required)	
<input checked="" type="checkbox"/> State	State Name (string / Required)	
Key	Value	Description

Create a List of All Tags ([https:// ... /api/AllTags/](https://.../api/AllTags/)):

This will initially be an empty list, but is important to be created.

KEY	VALUE	DESCRIPTION
AddTags	false	
DeleteTags	false	
ListOfAllTags	true	

How to add Tags to the All Tags ([https:// ... /api/AllTags/](https://.../api/AllTags/)):

Notice this is a **Put** (not a Post). These are optional tags. When creating Trails, if tags are used, they need to have been entered to the AllTags in this way.

KEY	VALUE	DESCRIPTION
AddTags	true	
DeleteTags	false	
ListOfAllTags	false	

Setup / Get the States ([https:// ... /api/State/](https://.../api/State/)):

KEY	VALUE	DESCRIPTION
Name	State	
Key	StateID	

This will

show the list of States from the Updated Database (performed earlier). The State ID will be used when setting up the City in the next step.

Create a City ([https:// ... /api/City/](https://.../api/City/)):

KEY	VALUE	DESCRIPTION
Name	City	
StateID	1	

Create a Park ([https:// ... /api/Park](https://.../api/Park)):

POST <https://localhost:44375/api/Park> Send

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> CityID	ID from Created City (integer/Required) ...	
<input checked="" type="checkbox"/> Name	Park Name (string/Required)	
<input checked="" type="checkbox"/> Acreage	integer (optional)	
<input checked="" type="checkbox"/> Hours	string (optional)	
<input checked="" type="checkbox"/> PhoneNumber	string (optional)	
<input checked="" type="checkbox"/> Website	string (optional)	
Key	Value	Description

Create a Trail ([https:// ... /api/Trail/](https://.../api/Trail/)):

POST <https://localhost:44375/api/Trail/> Send

Params Authorization Headers (10) **Body** Pre-request Script Tests Settings

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> Name	Trail Name (string/Required)	
<input checked="" type="checkbox"/> CityID	ID from Created City (integer/Required)	
<input checked="" type="checkbox"/> ParkID	ID from Created Park (integer/Required)	
<input checked="" type="checkbox"/> Difficulty	string (optional)	
<input checked="" type="checkbox"/> Description	string (optional)	
<input checked="" type="checkbox"/> Distance	double (optional)	
<input checked="" type="checkbox"/> TypeOfTerrain	string (optional)	
<input checked="" type="checkbox"/> AddTags	string (optional)	
<input checked="" type="checkbox"/> Elevation	double (optional)	
<input checked="" type="checkbox"/> RouteType	string (optional)	
Key	Value	Description

Create a Visited ([https:// ... /api/Visited/](https://.../api/Visited/)):

POST <https://localhost:44375/api/Visited/> Send

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> TrailID	ID of Created Trail (integer / Required) ...	
<input checked="" type="checkbox"/> Rating	integer (between 0-5) / Required ...	
<input checked="" type="checkbox"/> Review	string (optional)	
<input checked="" type="checkbox"/> AddToFavorites	boolean (true or false) / (optional)	
Key	Value	Description

After all these are created, all of the features of the API will be available.