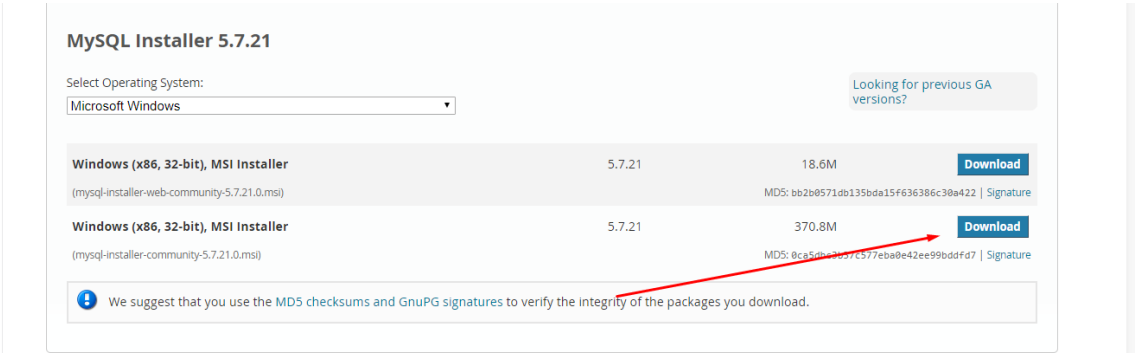
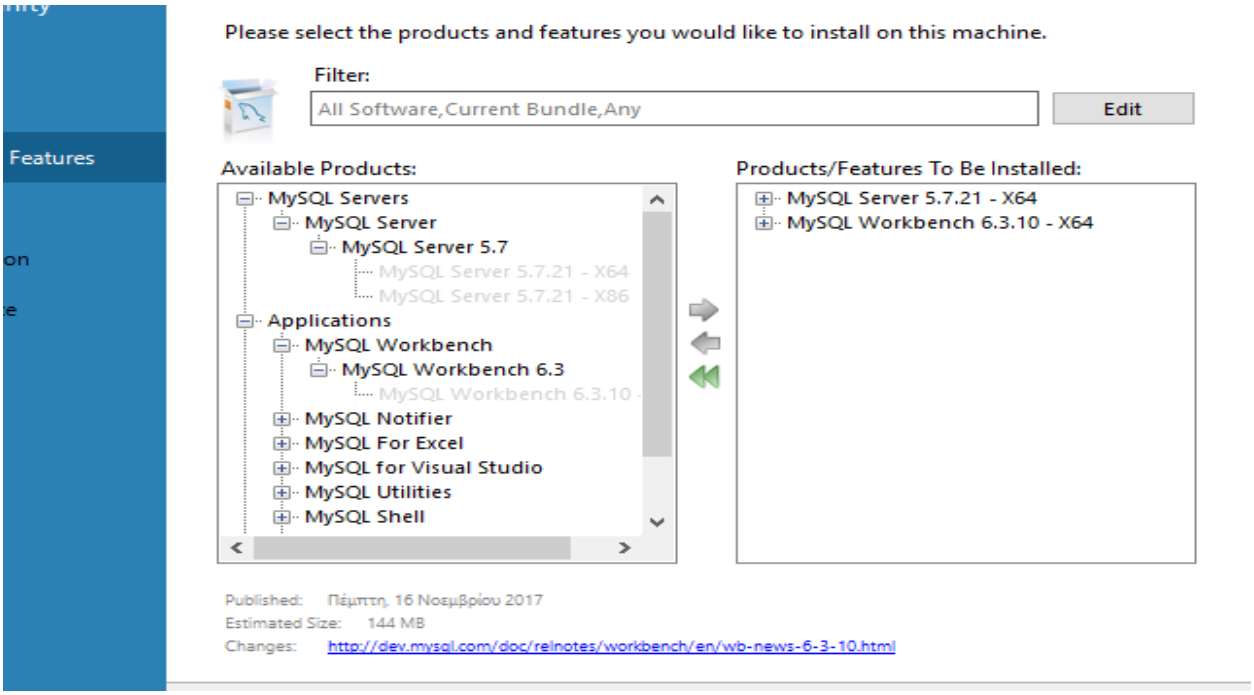
DATABASE AND API INSTALLATION

Database

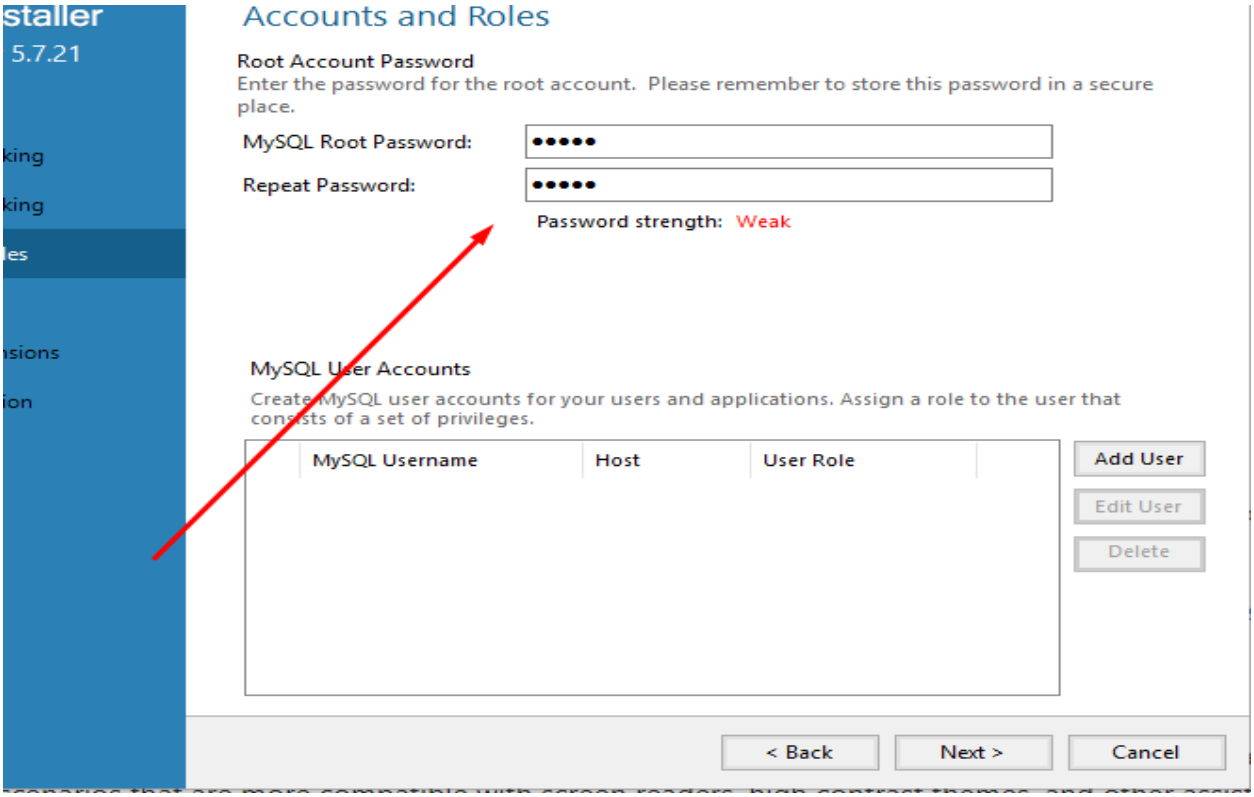
- Download MySql installer : https://dev.mysql.com/downloads/installer/



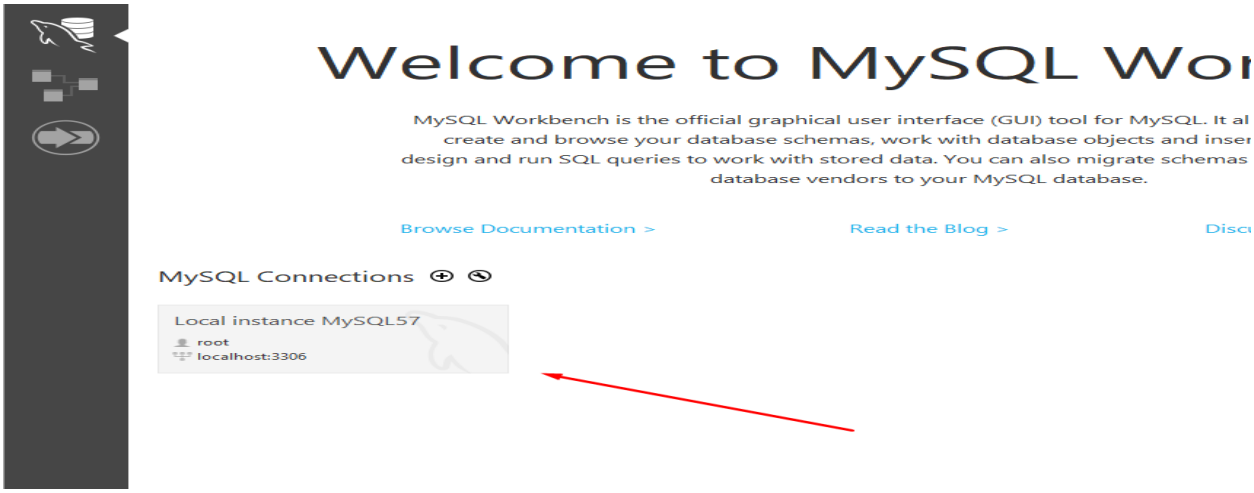
After download Is complete, install mysql server and workbench



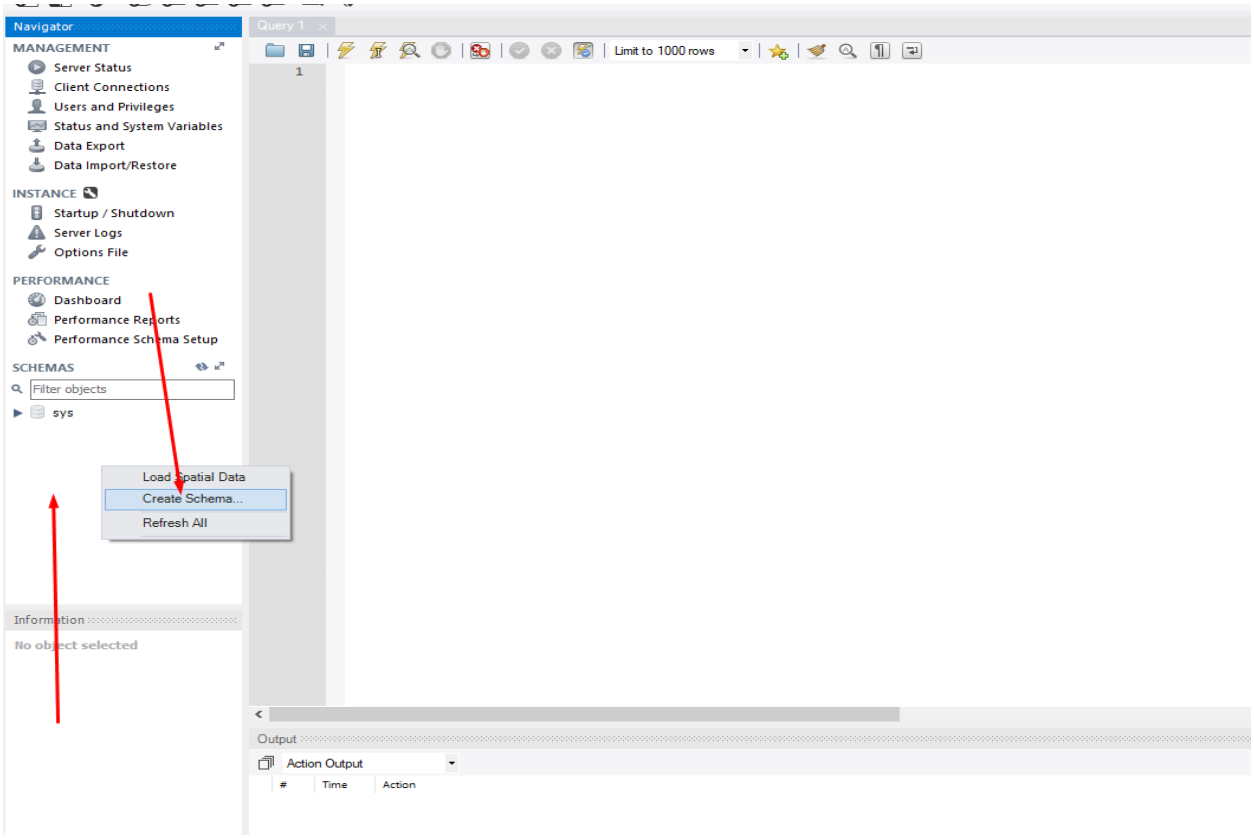
Leave everything in its default settings .it is recommended to use password “12345” ,since the API is preconfigured with that



If everything went well ,workbench should start and you should be presented with the following :



In the next step ,we are going to create our database or “schema” as it’s called in mysql .To do that ,right click in the area of the schemas and “create schema”



It is recommended to use the name “businessplantool” (spaces and capitals will be omitted) .After that’s created ,right click on it and select “set as default schema” so that every script run from now on ,refers to businessplantool .Then :

1. Go to file->open sql script and open the file “create table” .To run ,select the thunder shaped button at the top .Hitting refresh on the schema will reveal the newly created tables .

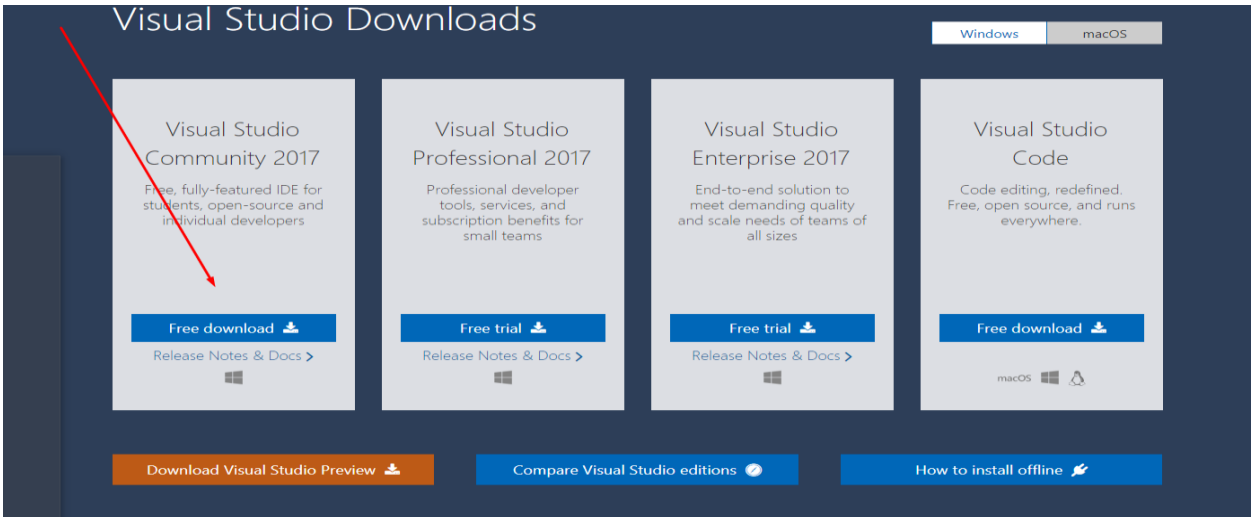
2. Again file->open sql script and open the file “Dummies population” and run the same way .This will create some rows in the tables so that you can use the API directly.

The above files can be found on : https://github.com/eellak/business-plan-tool/tree/master/Backend/MySql

If for any reason the MySql Installer file does not start ,simply download MySql server and MySql Workbench separately and install them manually.

REST API PROJECT

- First ,download visual studio : https://www.visualstudio.com/

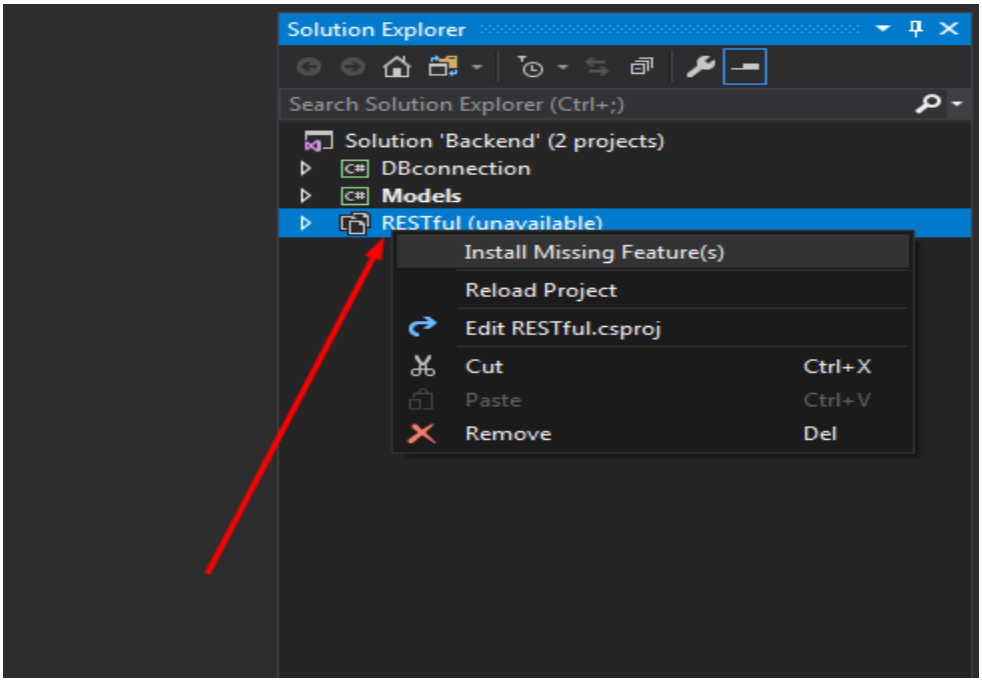


After download is complete ,run the file and you will be presented with choices for packages or “workloads” to install .Select:

-Universal Windows Platform
-.NET desktop
-ASP.NET and any other you might use .

After installation is complete ,download the project at : https://github.com/eellak/business-plan-tool/tree/master/Backend named “Backend.rar” .

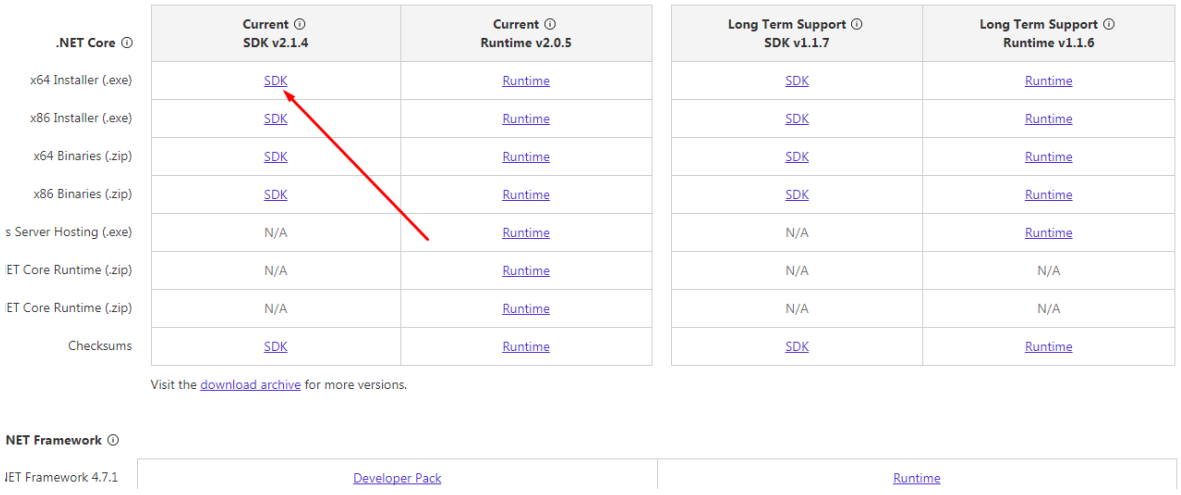
In visual studio ,open Backend.sln (solution) and you should see the three projects named “DBconnection”,”Models” and “RESTful” .RESTful uses MVC 4.0 which by default is not installed in visual studio .In order to do that ,right click on the project -> install missing features .



After that's installed ,visual studio will restart and you should see the project loaded correctly .After that ,right click on it and click "set as startup project"

"Models" targets .NET core 2.0 ,so if you haven't installed that ,trying to run the project will raise the corresponding error message .You can check availability by going to Models->properties and checking the "target framework" on "application".

You can download the SDK here : https://www.microsoft.com/net/download/windows

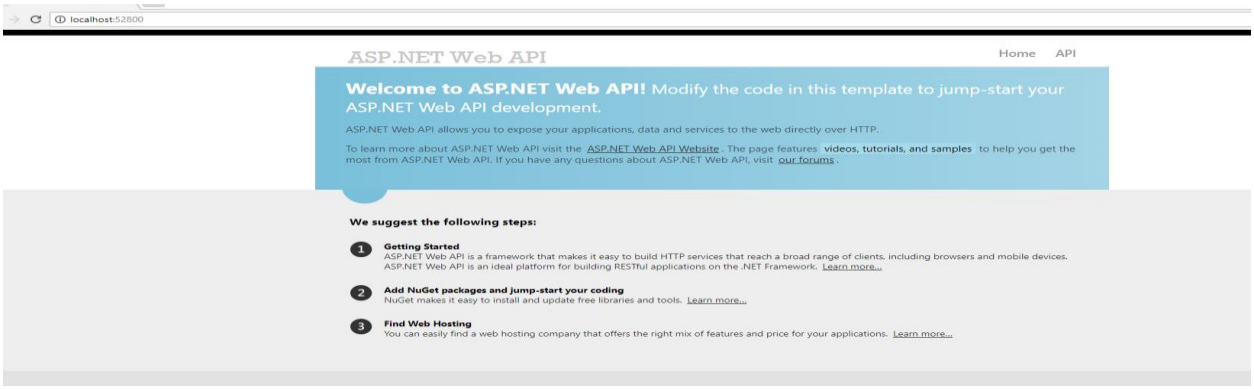


.NET Core ⓘ	Current ⓘ SDK v2.1.4	Current ⓘ Runtime v2.0.5	Long Term Support ⓘ SDK v1.1.7	Long Term Support ⓘ Runtime v1.1.6
x64 Installer (.exe)	SDK	Runtime	SDK	Runtime
x86 Installer (.exe)	SDK	Runtime	SDK	Runtime
x64 Binaries (.zip)	SDK	Runtime	SDK	Runtime
x86 Binaries (.zip)	SDK	Runtime	SDK	Runtime
s Server Hosting (.exe)	N/A	Runtime	N/A	Runtime
ET Core Runtime (.zip)	N/A	Runtime	N/A	N/A
ET Core Runtime (.zip)	N/A	Runtime	N/A	N/A
Checksums	SDK	Runtime	SDK	Runtime

Visit the download archive for more versions.

NET Framework ⓘ		
IET Framework 4.7.1	Developer Pack	Runtime

After .NET is installed ,you should be able to run the project .If everything went as planned a browser window will open with the following page :



At this point ,you can make requests and receive responds from the endpoint:

- localhost:52800/api/"json name" (check FinalJsons file on the repo for applicable json names and supported requests)

To interact with the API ,you can download POSTMAN and make simple requests on the above URL .

POINTS TO CONSIDER

- If the API throws a "Null Reference Exception" ,that's because a connection has not been established to the database ,review your settings .

- By default ,a database connection is attempted at location “localhost” ,on database “businessplantool”,with user id “root” and password “12345” .If for any reason you have set different credentials during installation of the server ,simply edit the connection string located in DBconnection->programs.cs as

```
"Server=localhost;Database=businessplantool;Uid=root
;Pwd=12345;"
```