Practice Project

ASP.NET WEB API Application

Aim:

To Create an ASP.NET WEB API Application to Add Subject Marks to Students and View Their Marks

Github link:

https://github.com/Sukirthalakshmanan1/API

https://github.com/Sukirthalakshmanan1/WEBAPI3

Procedure:

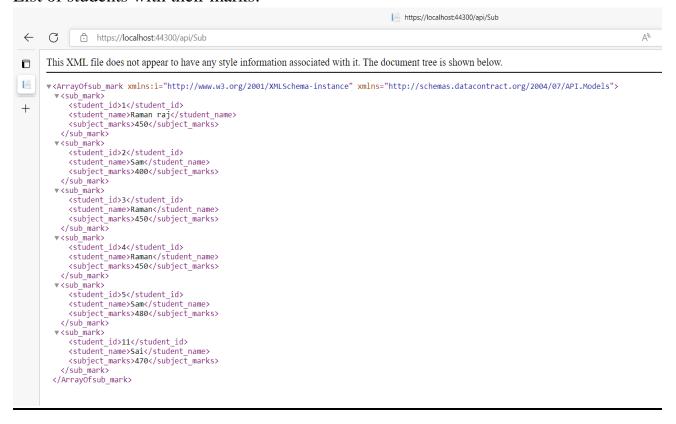
- ➤ Create an ASP.NET Web application. Select WEB API application.
- Create Business Logic Library, Data Access Library, Helper Library for student marks.
- > Add dependencies for the Project.
- Add controller named Sub and Add GET,POST,PUT,Delete methods and access the operation with the help of helper class.
- Add model class marks.cs in Model Folder and write the necessary properties like student id, student name, subject marks
- Download Postman Application and create an account.
- ➤ Run the project and copy the URL and paste it in Postman.
- ➤ Test the Method GET(https://localhost:44300/api/Sub)
- POST Method(/api/controller) ,PUT(/api/controller/id)
- ➤ Delete(/api/controller/id) and to find the Student marks with id(https://localhost:44300/FindById/2)
- ➤ Add project ASP.NET application and select MVC application
- ➤ Download microsoft.ASPNET.webapi.client from nuget package manager
- ➤ Add dependencies.
- ➤ Add controller to perform List and create Operation
- ➤ Add model class mark.cs in model
- > Create views Index, Create, Delete, Edit and details to perform operations.

- From solution of the project. select start up project and select project build order.
- ➤ Set the WEB API start and MVC application start
- > Run the project.

Output:

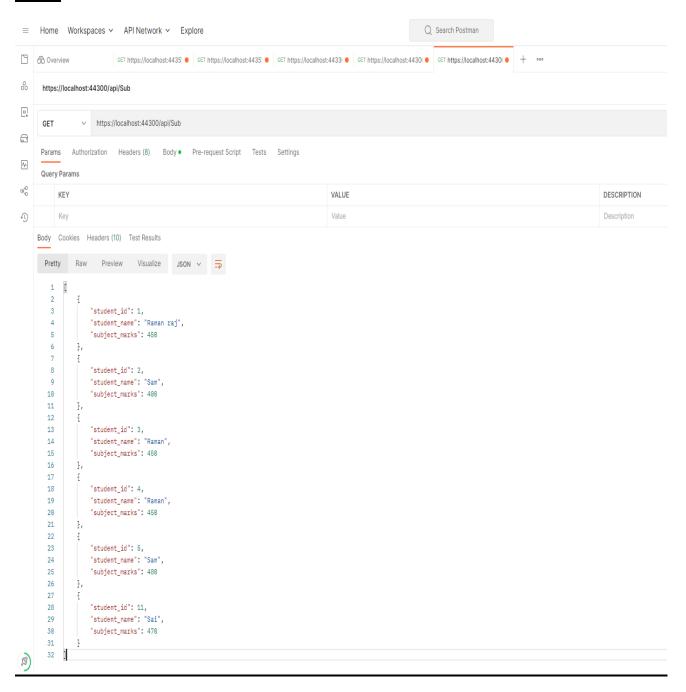
GET:

List of students with their marks:

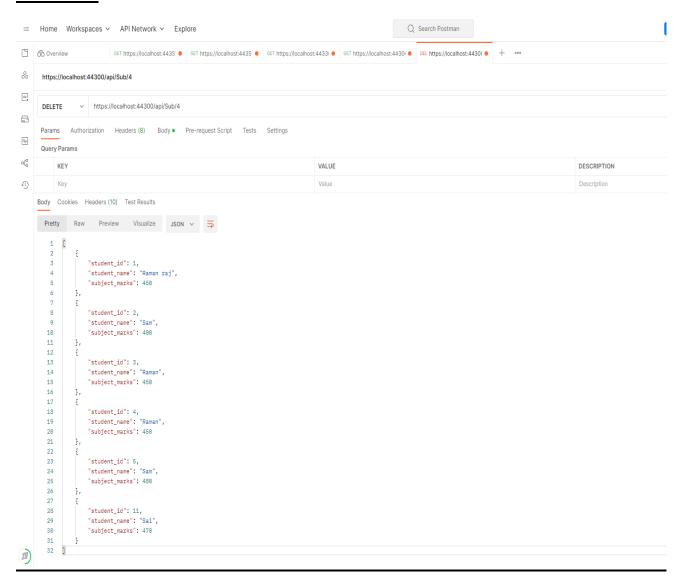


POSTMAN:

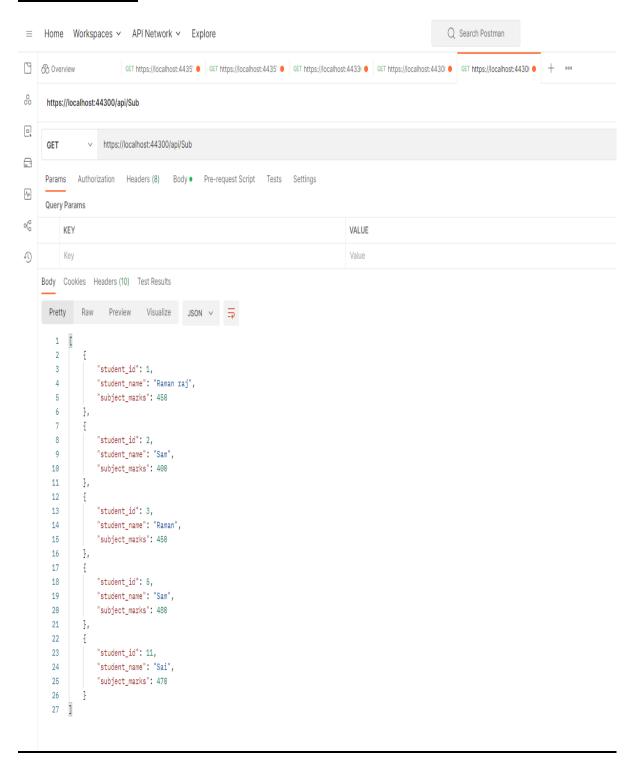
GET:



DELETE:



After Deletion:



POST:

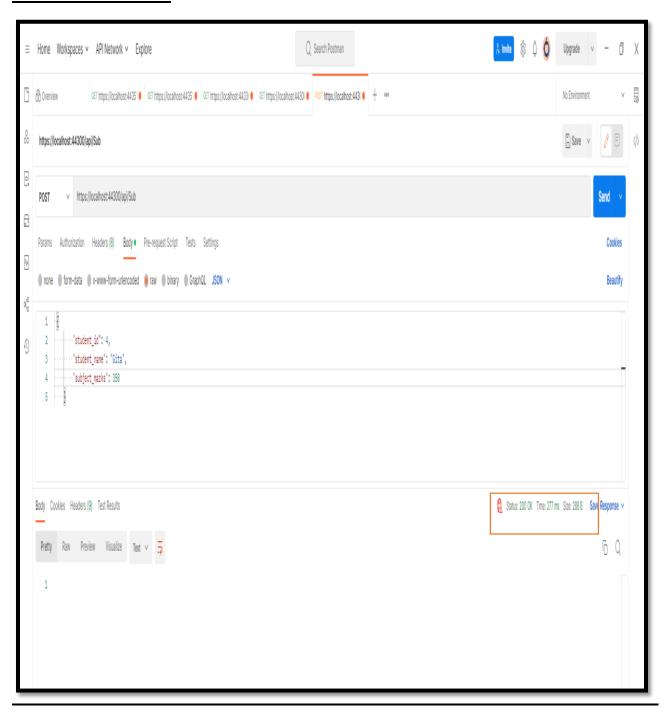
```
Q Search Postman
 \equiv Home Workspaces \checkmark API Network \checkmark Explore
                                                                                            GET https://localhost:4435* 

GET https://localhost:4435* 

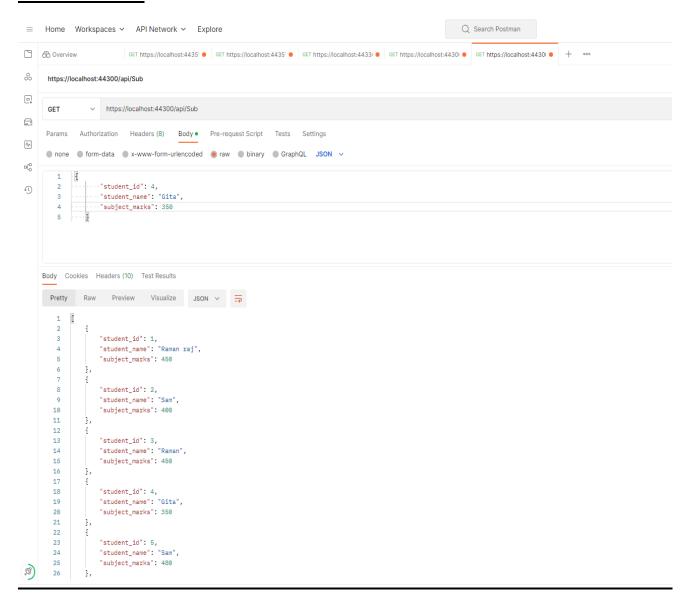
GET https://localhost:44301* 

GE
                      https://localhost:44300/api/Sub
0
                      POST
                                                     https://localhost:44300/api/Sub
Params Authorization Headers (8) Body • Pre-request Script Tests Settings
1/4
                      0(0
                                           - 5
                                                         student_id": 4,
student_name": "Gita",
subject_marks": 350
49
                 Body Cookies Headers (10) Test Results
                        Pretty Raw Preview Visualize JSON V
                              1 [
                              2
                                                                     "student_id": 1,
"student_name": "Raman raj",
"subject_marks": 450
                                                                     "student_id": 2,
"student_name": "Sam",
                              8
                                                                   "subject_marks": 400
                           10
                           11
                          12
13
                                                                     "student_id": 3,
"student_name": "Raman",
"subject_marks": 450
                           14
                           15
                           16
                           17
                                                                    "student_id": 5,
"student_name": "Sam",
"subject_marks": 480
                           18
                           19
                           20
                           21
                           22
                                                                     "student_id": 11,
"student_name": "Sai",
"subject_marks": 470
                           23
                           24
                           25
                           26
```

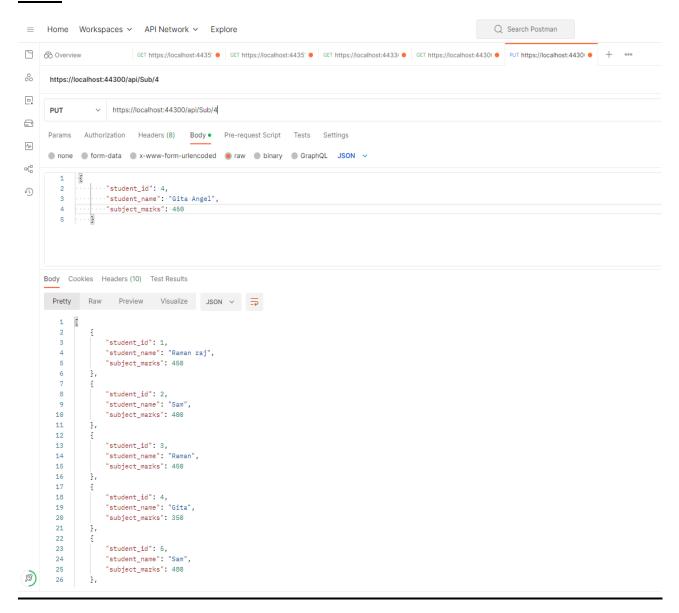
Success status code:



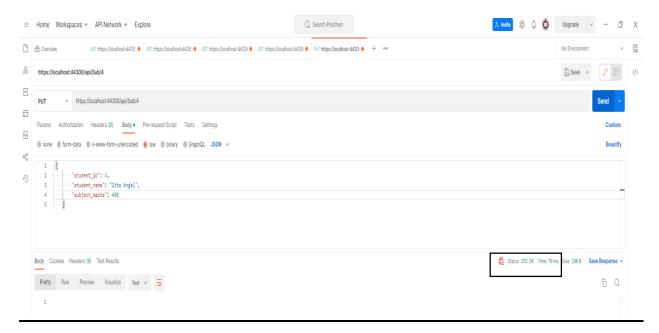
After Insertion:



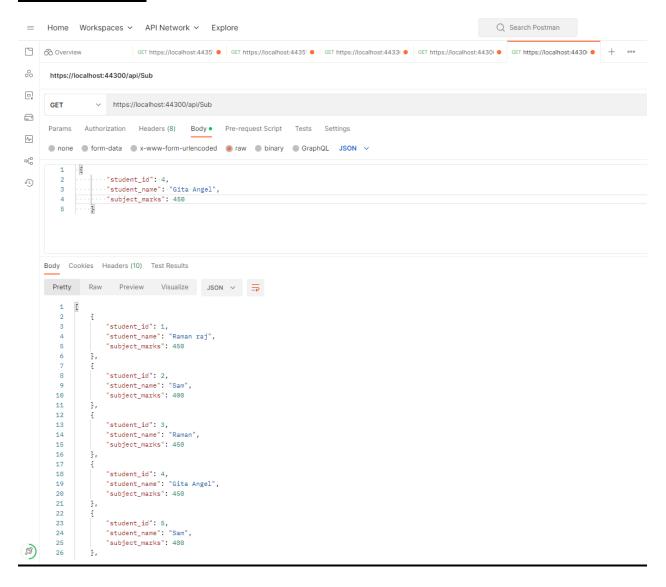
PUT:



Success Status Code:



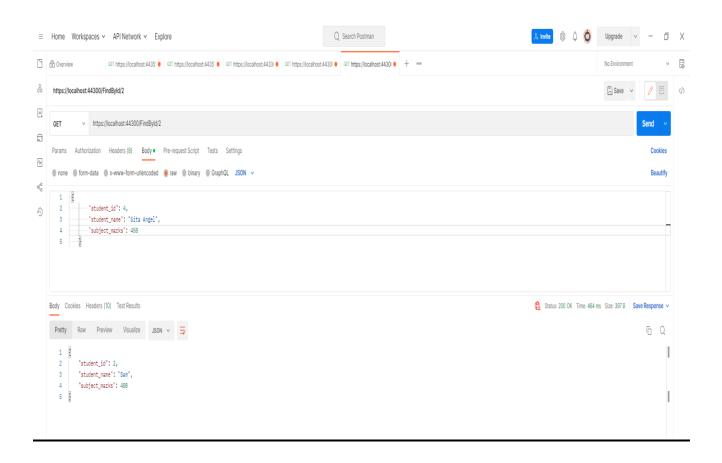
After Updation:



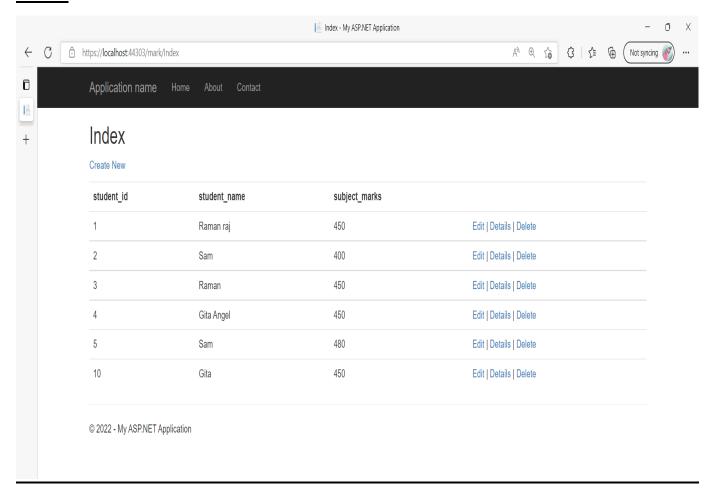
Find By ID:



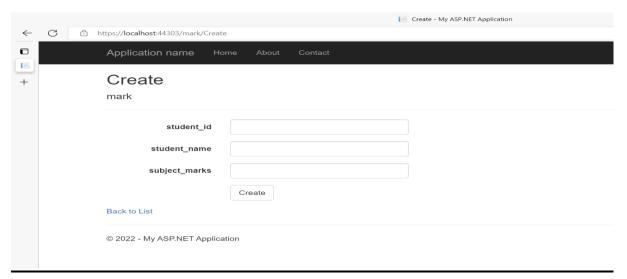
In POSTMAN:

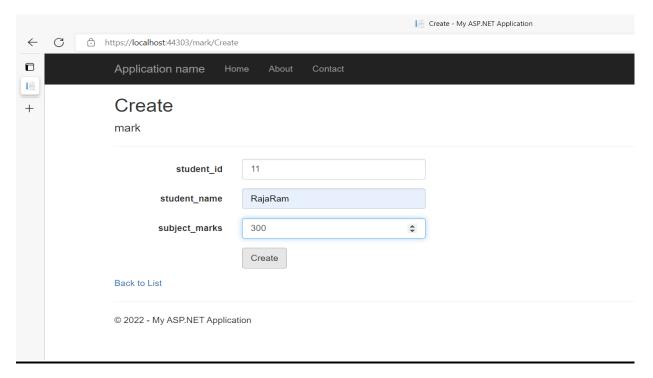


Index:

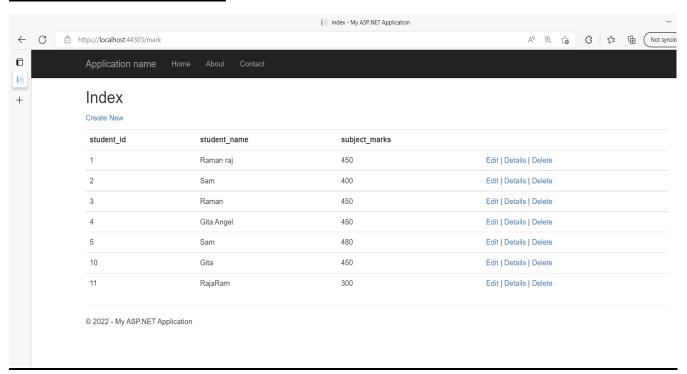


Create:





List of student with marks:



Conclusion:

Thus the Web API application is created successfully.