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LAB 13 EVALUATION

Q: Create a restful web service or rest api and show the results of get , post , put and delete functions on postman (api testing application)

```
Solution: -
```

```
public class Friend
     internal int id;
     public string firstname { get; set; }
     public string lastname { get; set; }
     public string location { get; set; }
     public DateTime dateOfHire { get; set; }
     public Friend()
     public Friend(int id, string firstname, string lastname, string location, DateTime dateOfHire)
       this.id = id;
       this.firstname = firstname;
       this.lastname = lastname;
       this.location = location:
       this.dateOfHire = dateOfHire;
     }
  }
[Route("api/[controller]")]
  [ApiController]
  public class FriendController: ControllerBase
     List<Friend> friends = new List<Friend>();
     public FriendController()
       friends.Add(new Friend(1,"Kindson", "Munonye", "Budapest", DateTime.Today));
       friends.Add(new Friend(2,"Oleander", "Yuba", "Nigeria", DateTime.Today));
       friends.Add(new Friend(3, "Saffron", "Lawrence", "Lagos", DateTime.Today));
```

```
friends.Add(new Friend(4,"Jadon", "Munonye", "Asaba", DateTime.Today));
       friends.Add(new Friend(5, "Solace", "Okeke", "Oko", DateTime.Today));
     }
    // GET: api/<FriendController>
     [HttpGet]
    public int Get()
       return friends.Count;
    // GET api/<FriendController>/5
    [HttpGet("{id}", Name = "Get")]
     public string Get(int id)
       Friend friend = friends.Find(f \Rightarrow f.id == id);
       return "First Name = "+friend.firstname+" \nLast Name = "+friend.lastname+"\nLocation
= "+friend.location+"\nDate Of Hiring = "+friend.dateOfHire;
    // POST api/<FriendController>
     [HttpPost]
     public int Post([FromBody] Friend friend)
       friends.Add(friend);
       return friends.Count:
    // PUT api/<FriendController>/5
    [HttpPut("{id}")]
     public string Put(int id, [FromBody] Friend friend)
       Friend friendToUpdate = friends.Find(f => f.id == id);
       int index = friends.IndexOf(friendToUpdate);
       friends[index].firstname = friend.firstname;
       friends[index].lastname = friend.lastname;
       friends[index].location = friend.location;
       friends[index].dateOfHire = friend.dateOfHire;
       return "Updated Successfully";
    // DELETE api/<FriendController>/5
     [HttpDelete("{id}")]
    public int Delete(int id)
```

```
{
    Friend friend = friends.Find(f => f.id == id);
    friends.Remove(friend);
    return friends.Count;
}
```

Output: -(Used Swagger)

Get API for /api/Friend

```
Response body

Number of friends = 5
```

POST API for /api/Friend

```
{
    "firstname": "string",
    "lastname": "string",
    "location": "string",
    "dateOfHire": "2022-06-23T18:11:39.259Z"
}
```

```
Response body

Number of friends = 6
```

Get API for /api/Friend/{id}

```
id * required
integer($int32)
(path)
1
```

```
First Name = Kindson
Last Name = Munonye
Location = Budapest
Date Of Hiring = 6/23/2022 12:00:00 AM
```

PUT API for /api/Friend/{id}

```
id * required
integer($int32)

(path)
```

```
{
  "firstname": "string",
  "lastname": "string",
  "location": "string",
  "dateOfHire": "2022-06-23T18:21:25.334Z"
}
```

Response body

Updated Successfully

DELETE API for /api/Friend/{id}

```
id * required
integer($int32)
(path)
```

Response body

Number of friends = 4