**Test cases and Request/Response objects**

**1. Product IDs (Key for the product) are Guids, Token (Key for the user) is an integer and both are unique.**

**2. Products have following properties:**

* Key
* Name
* User
* Password
* Price
* Color
* Discount
* Token
* IsAvailable

**2. First page:**

*Example of HTTP Request:*

User-Agent: Fiddler

Host: localhost:22234

Content-Type: application/json

Content-Length: 0

*URL:*

<http://localhost:22234/api/Product/EnterUsernameHere>

*Response:*

*-1*

***Note****: -1 means invalid Username as* ***EnterUsernameHere*** *is an invalid User.*

**3. Getting Token using Username:**

**Method:**

**[HttpGet("{User}")]**

**public int GetToken(string User)**

*Request:*

*URL:*

<http://localhost:22234/api/Product/Sudeep>

*Response:*

*1*

***Note***: *Token number for Username* ***Sudeep*** *is 1.*

**4. Accessing all products associated with a particular User using its Token:**

**Method:**

**[HttpGet("{User}/{Token}")]**

**public IEnumerable<ProductItem> GetAll(int Token)**

*URL:*

<http://localhost:22234/api/Product/Sudeep/1>

Where {User} is Sudeep and {Token} is 1.

*Response***:**

[{"Key":"7aec53d0-ec86-42f5-a730-cc3f7808805a","Name":"Iphone6S","User":"Sudeep","Password":"1234","Price":45000.0,"Color":"Gold","Discount":"12%","Token":1,"IsAvailable":"False"},{"Key":"ce6255eb-f90a-4ee3-9380-039fa650a4cf","Name":"IphoneSE","User":"Sudeep","Password":"1234","Price":25000.0,"Color":"Gold","Discount":"12%","Token":1,"IsAvailable":"True"},{"Key":"40e0c278-df08-4c6c-9398-c68f5ec85116","Name":"Iphone4S","User":"Sudeep","Password":"1234","Price":15000.0,"Color":"Silver","Discount":"12%","Token":1,"IsAvailable":"False"}]

*URL:*

<http://localhost:22234/api/Product/Sumit/2>

*Response***:**

[{"Key":"0424e5c1-5a35-4c70-ae0a-c6edd0803113","Name":"Iphone5S","User":"Sumit","Password":"1234","Price":25000.0,"Color":"Grey","Discount":"12%","Token":2,"IsAvailable":"True"},{"Key":"bdd04b03-636e-4cd6-b400-f7b7086aa4f4","Name":"Red Mi Note 4g","User":"Sumit","Password":"1234","Price":15000.0,"Color":"Black","Discount":"16%","Token":2,"IsAvailable":"True"},{"Key":"a41e974d-8491-4ffa-a670-c04e6b8aa00a","Name":"Samsung Edge","User":"Sumit","Password":"1234","Price":35000.0,"Color":"Silver","Discount":"12%","Token":2,"IsAvailable":"True"}]

**5. Accessing product by id:**

**Method:**

**[HttpGet("{Token}/{id}/{Password}", Name = "GetProduct")]**

**public IActionResult GetById(string id, int Token, string Password)**

*Request1:*

*URL:*

<http://localhost:22234/api/Product/2/0424e5c1-5a35-4c70-ae0a-c6edd0803113/1234>

Where {Token} is 2, {id} is 0424e5c1-5a35-4c70-ae0a-c6edd0803113 and {Password} is 1234.

*Response***:**

{"Key":"0424e5c1-5a35-4c70-ae0a-c6edd0803113","Name":"Iphone5S","User":"Sumit","Password":"1234","Price":25000.0,"Color":"Grey","Discount":"12%","Token":2,"IsAvailable":"True"}

**6. Deleting product by id:**

**[HttpDelete("{Token}/{id}/{Password}")]**

**public IActionResult Delete(string id, int Token, string Password)**

*Request1:*

*URL:*

<http://localhost:22234/api/Product/2/0424e5c1-5a35-4c70-ae0a-c6edd0803113/1234>

*Response***:**

*Successfully removed*

Note: Now refresh the browser and you will find that the product with the above key is deleted.

*Request2:*

*URL:*

<http://localhost:22234/api/Product/2/0424e5c1-5a35-4c70-ae0a-c6edd080311/1234>

Note: See Product IDs last digits.

*Response***:**

*Deletion Operation failed*

**7. Editing the product details:**

**Method:**

**[HttpPut("{Token}/{id}/{Password}")]**

**public IActionResult Update(string id, [FromBody] ProductItem item, int Token, string Password)**

*Request1***:**

*URL:*

<http://localhost:22234/api/Product/1/7aec53d0-ec86-42f5-a730-cc3f7808805a/1234>

*Request body:*

{"Key":"7aec53d0-ec86-42f5-a730-cc3f7808805a","Name":"Iphone6S","User":"Sudeep","Password":"1234","Price":45000.0,"Color":"**Silver**","Discount":"**15%**","Token":1,"IsAvailable":"True"}

*Response***:**

*Successfully updated*

**8. Adding new product:**

**Method:**

**[HttpPost("{Token}/{Password}")]**

**public IActionResult Create([FromBody] ProductItem item, int Token, string Password)**

*Request:*

*URL:*

<http://localhost:22234/api/Product/1/1234>

*Request body:*

{"Name":"Mi Tab","User":"Sudeep","Password":"1234","Price":45000.0,"Color":"Rose Gold","Discount":"15%","Token":1,"IsAvailable":"True"}

*Response:*

{"Key":"07024df0-c06d-47f4-8ab9-b52ccb18d456","Name":"Mi Tab","User":"Sudeep","Password":"1234","Price":45000.0,"Color":"Rose Gold","Discount":"15%","Token":1,"IsAvailable":"True"}

**\*\* Note: Above keys will not work for you as they are system generated using the following statement during addition of products:**

**item.Key = Guid.NewGuid().ToString();**

**So, use keys (for testing) generated at the run time.**