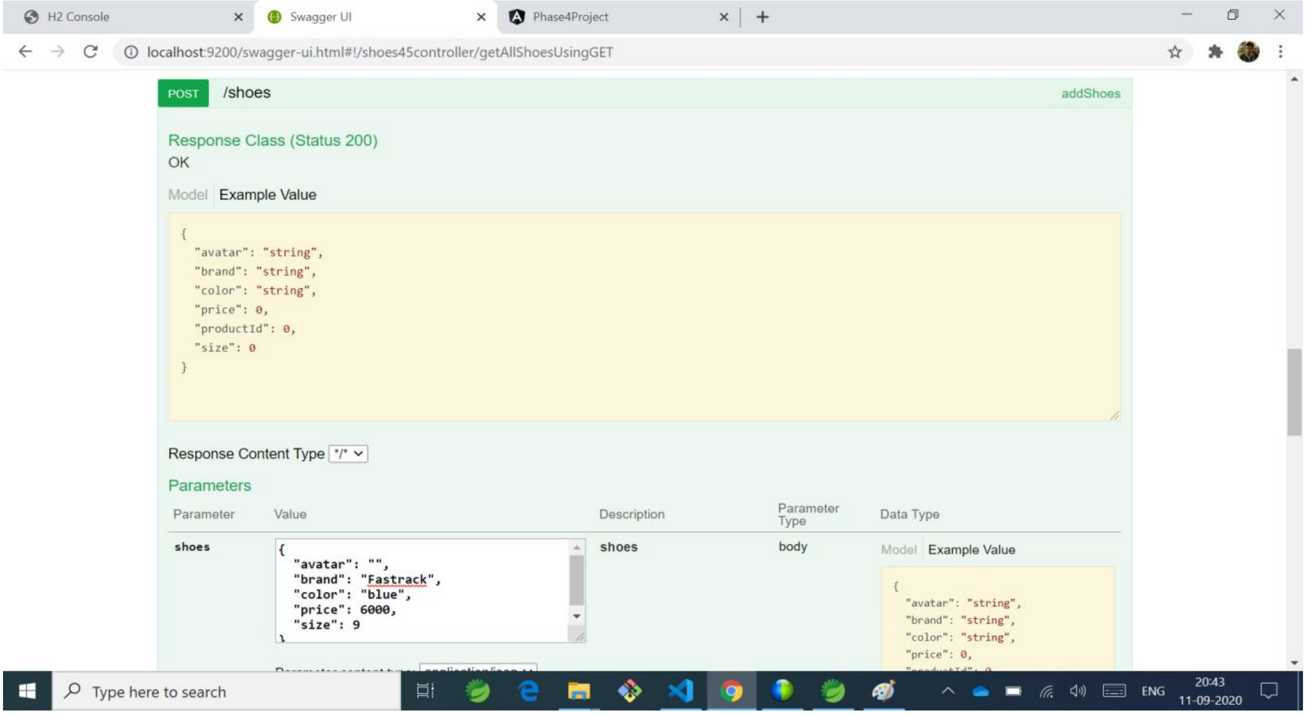
1. Post Http method is used below to add the data to the DataBase.


H2 Console
Swagger UI
Phase4Project
localhost:9200/swagger-ui.html#!/shoes45controller/getAllShoesUsingGET
POST
/shoes
addShoes

Response Class (Status 200)

OK

Model Example Value

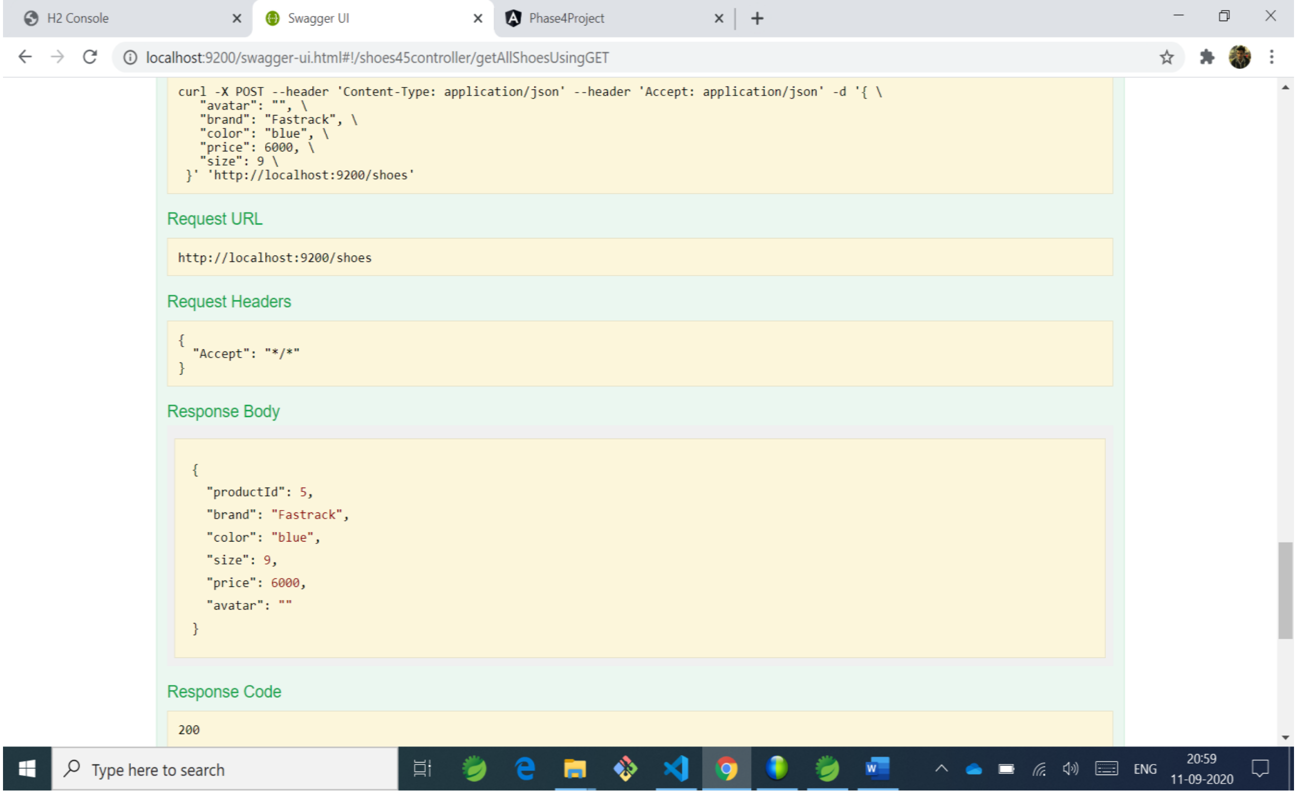
```
{
  "avatar": "string",
  "brand": "string",
  "color": "string",
  "price": 0,
  "productId": 0,
  "size": 0
}
```

Response Content Type */*

Parameters

Parameter	Value	Description	Parameter Type	Data Type
shoes	{ "avatar": "", "brand": "Fastrack", "color": "blue", "price": 6000, "size": 9 }	shoes	body	Model Example Value { "avatar": "string", "brand": "string", "color": "string", "price": 0,

2. Below Image shows the data is posted into Database with response code 200ok


H2 Console
Swagger UI
Phase4Project
localhost:9200/swagger-ui.html#!/shoes45controller/getAllShoesUsingGET

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
   "avatar": "", \
   "brand": "Fastrack", \
   "color": "blue", \
   "price": 6000, \
   "size": 9 \
 }' 'http://localhost:9200/shoes'
```

Request URL

```
http://localhost:9200/shoes
```

Request Headers

```
{
  "Accept": "*/*"
}
```

Response Body

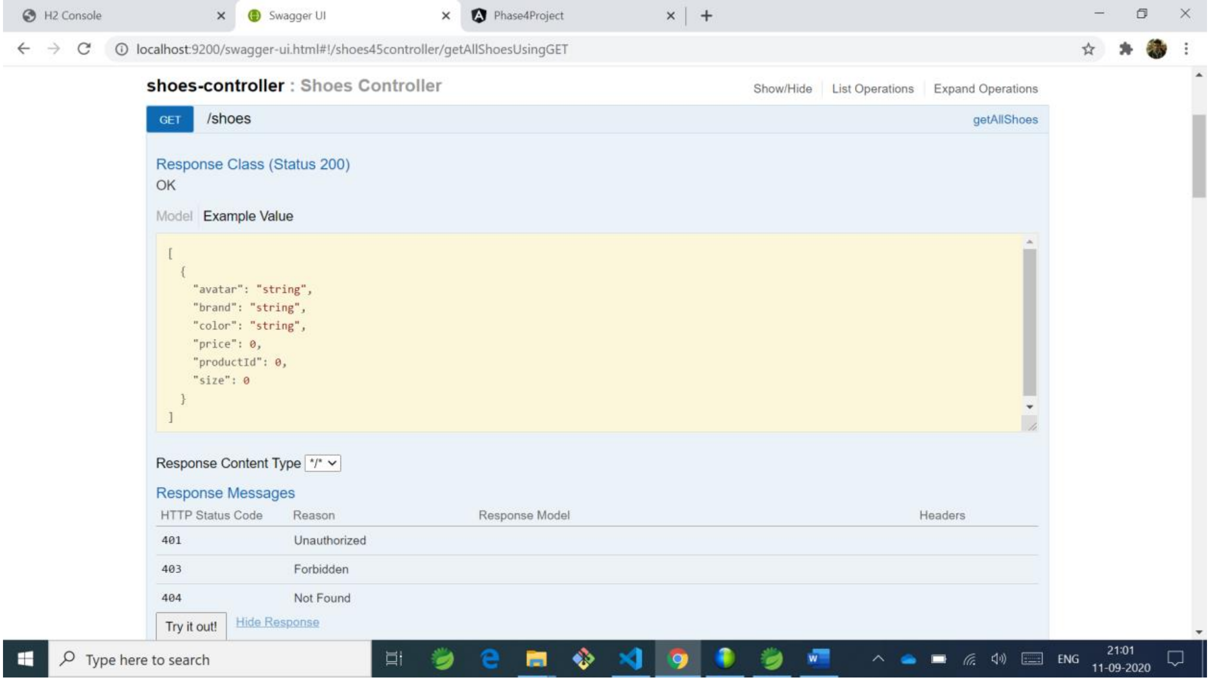
```
{
  "productId": 5,
  "brand": "Fastrack",
  "color": "blue",
  "size": 9,
  "price": 6000,
  "avatar": ""
}
```

Response Code

```
200
```

Type here to search
ENG
20:59
11-09-2020

3. Below Image shows the URI for Get Method is being implemented



shoes-controller : Shoes Controller

GET /shoes

Response Class (Status 200)

OK

Model Example Value

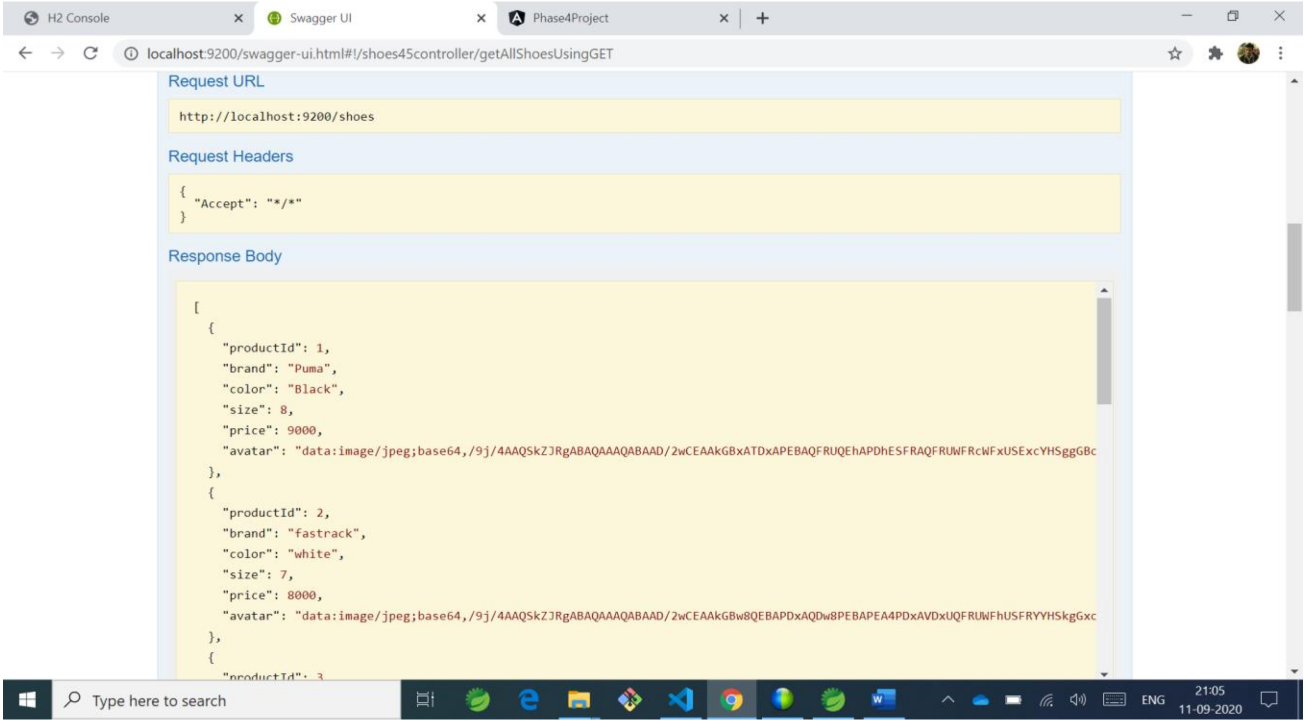
```
[
  {
    "avatar": "string",
    "brand": "string",
    "color": "string",
    "price": 0,
    "productId": 0,
    "size": 0
  }
]
```

Response Content Type */*

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
403	Forbidden		
404	Not Found		

4. Below Images shows the successful execution of Http Get Method


H2 Console
Swagger UI
Phase4Project
localhost:9200/swagger-ui.html#!/shoes45controller/getAllShoesUsingGET
Type here to search
ENG
21:05
11-09-2020

Request URL

```
http://localhost:9200/shoes
```

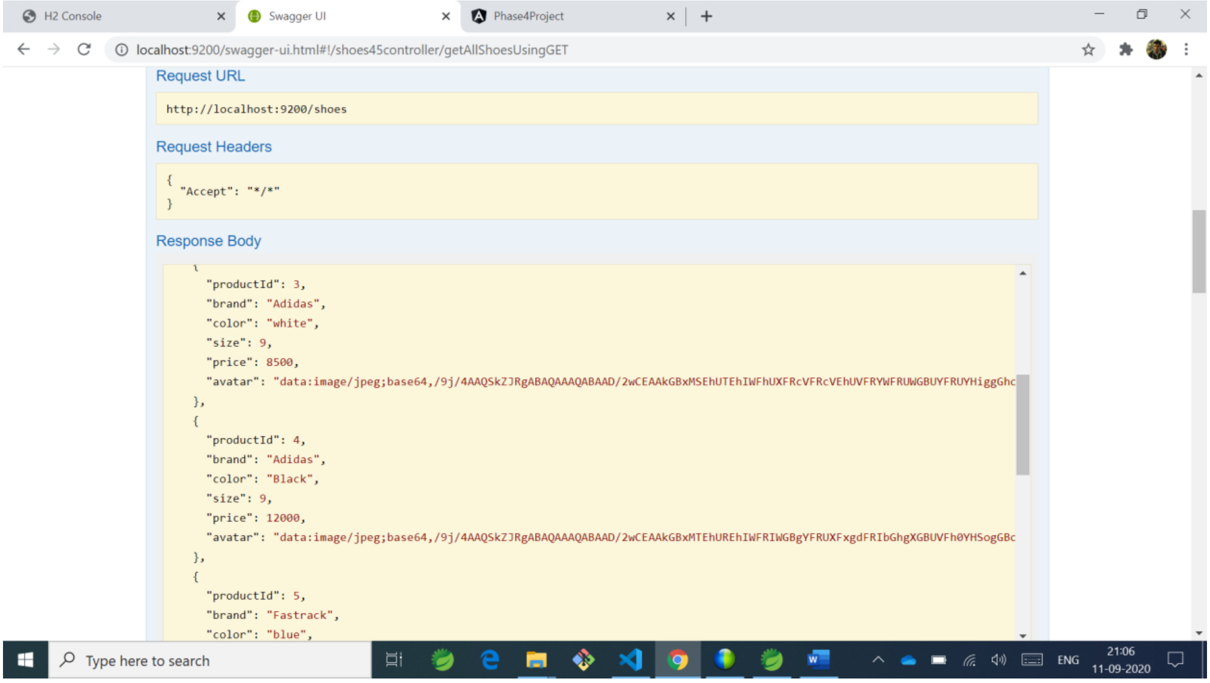
Request Headers

```
{
  "Accept": "*/*"
}
```

Response Body

```
[
  {
    "productId": 1,
    "brand": "Puma",
    "color": "Black",
    "size": 8,
    "price": 9000,
    "avatar": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxATDxAPEBAQFRUQEhAPDhESFRAQFRUWFRcWFxUSExcYHSggGBc
  },
  {
    "productId": 2,
    "brand": "fastrack",
    "color": "white",
    "size": 7,
    "price": 8000,
    "avatar": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBw8QEBAPDxAQDw8PEBAPEA4PDxAVDxUQFRUWFhUSFRYYHSkgGxc
  },
  {
    "productId": 3
```

5.


H2 Console
Swagger UI
Phase4Project
localhost:9200/swagger-ui.html#!/shoes45controller/getAllShoesUsingGET
Type here to search
ENG
21:06
11-09-2020

Request URL

```
http://localhost:9200/shoes
```

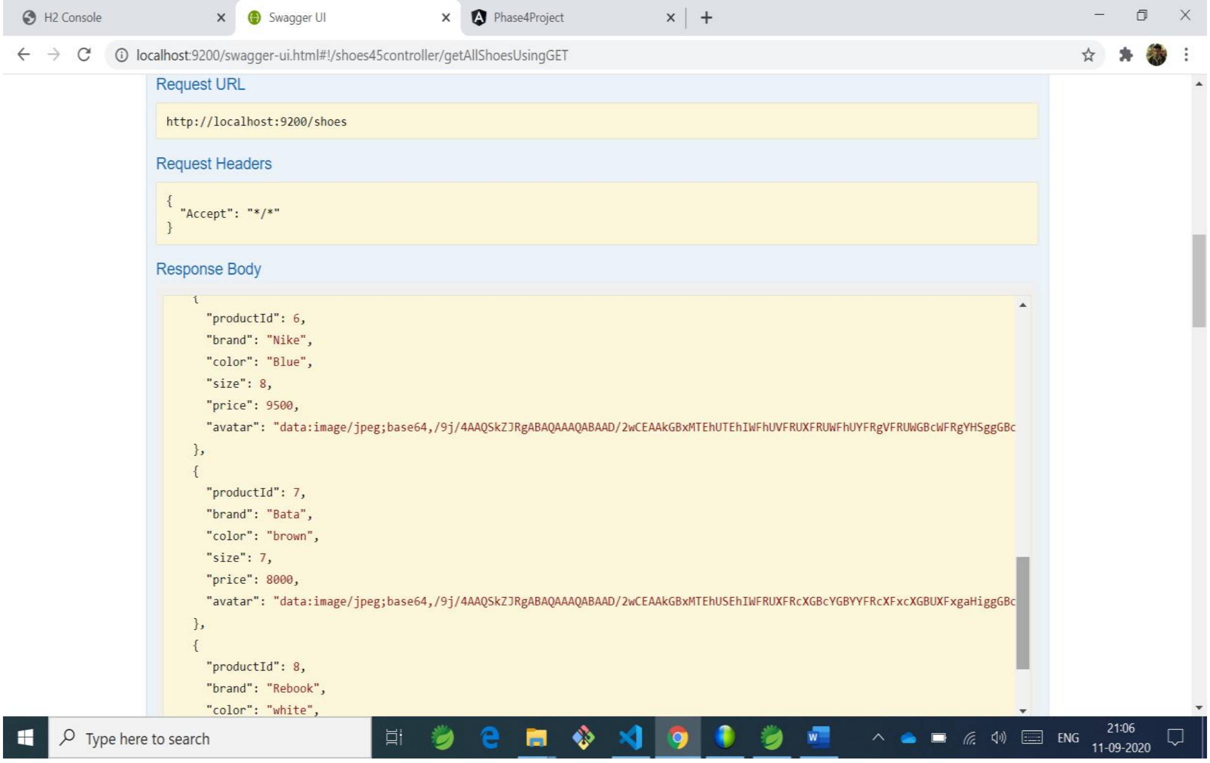
Request Headers

```
{
  "Accept": "*/*"
}
```

Response Body

```
    {
      "productId": 3,
      "brand": "Adidas",
      "color": "white",
      "size": 9,
      "price": 8500,
      "avatar": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxMSEhUTEhIWFhUXFRcVFRcVEhUVFRYWFRUWGBUYFRUYHiggGhc
    },
    {
      "productId": 4,
      "brand": "Adidas",
      "color": "Black",
      "size": 9,
      "price": 12000,
      "avatar": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxMTEhUREhIWFRIWGBgYFRUXFxgdFRIbGhgXGBUVFh0YHSogGBc
    },
    {
      "productId": 5,
      "brand": "Fastrack",
      "color": "blue",
```

6.


H2 Console
Swagger UI
Phase4Project
localhost:9200/swagger-ui.html#!/shoes45controller/getAllShoesUsingGET
Type here to search
ENG
21:06
11-09-2020

Request URL

```
http://localhost:9200/shoes
```

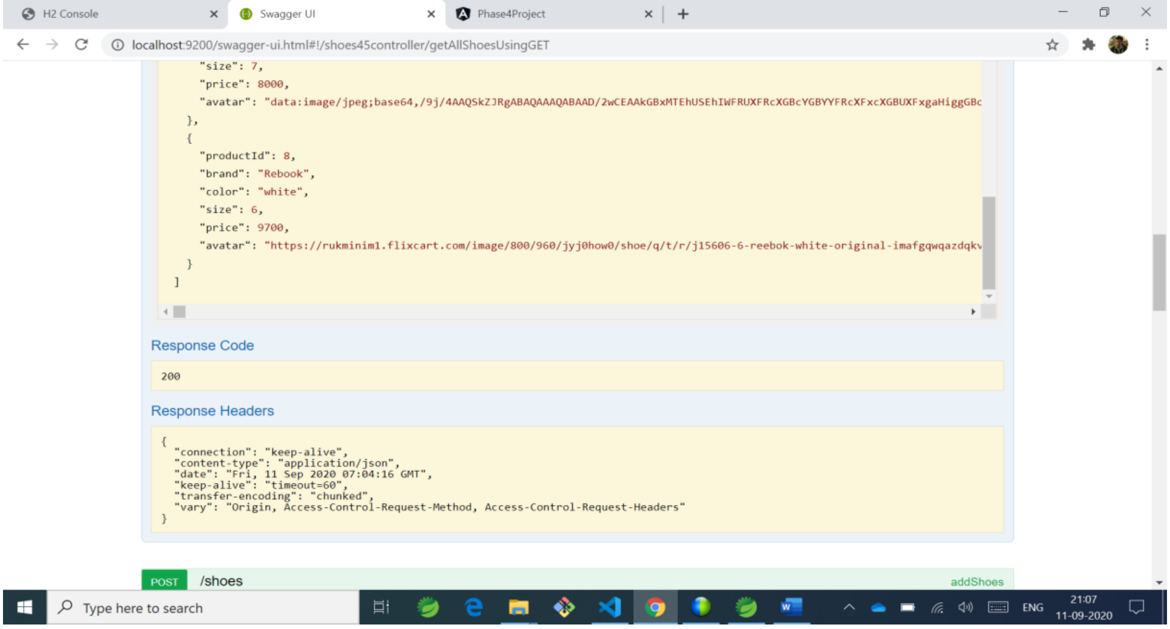
Request Headers

```
{
  "Accept": "*/*"
}
```

Response Body

```
    {
      "productId": 6,
      "brand": "Nike",
      "color": "Blue",
      "size": 8,
      "price": 9500,
      "avatar": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxMTEhUTEhIWFhUVFRUXFRUWFhUYFRgVFRUWGBcWFRgYHSggGBc
    },
    {
      "productId": 7,
      "brand": "Bata",
      "color": "brown",
      "size": 7,
      "price": 8000,
      "avatar": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxMTEhUSEhIWFRUXFRcXGBcYGBYYFRcXFxcXGBUXFxgaHiggGBc
    },
    {
      "productId": 8,
      "brand": "Rebook",
      "color": "white",
```

7.



localhost:9200/swagger-ui.html#!/shoes45controller/getAllShoesUsingGET

```
    "size": 7,
    "price": 8000,
    "avatar": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxMTEhUSEhIWFRUXFRcXGBcYGBYYFRcXFxcXGBUXFxgaHiggGBc
  },
  {
    "productId": 8,
    "brand": "Rebook",
    "color": "white",
    "size": 6,
    "price": 9700,
    "avatar": "https://rukminim1.flixcart.com/image/800/960/jyj0how0/shoe/q/t/r/j15606-6-reebok-white-original-imafgqwqazdqkv
  }
]
```

Response Code

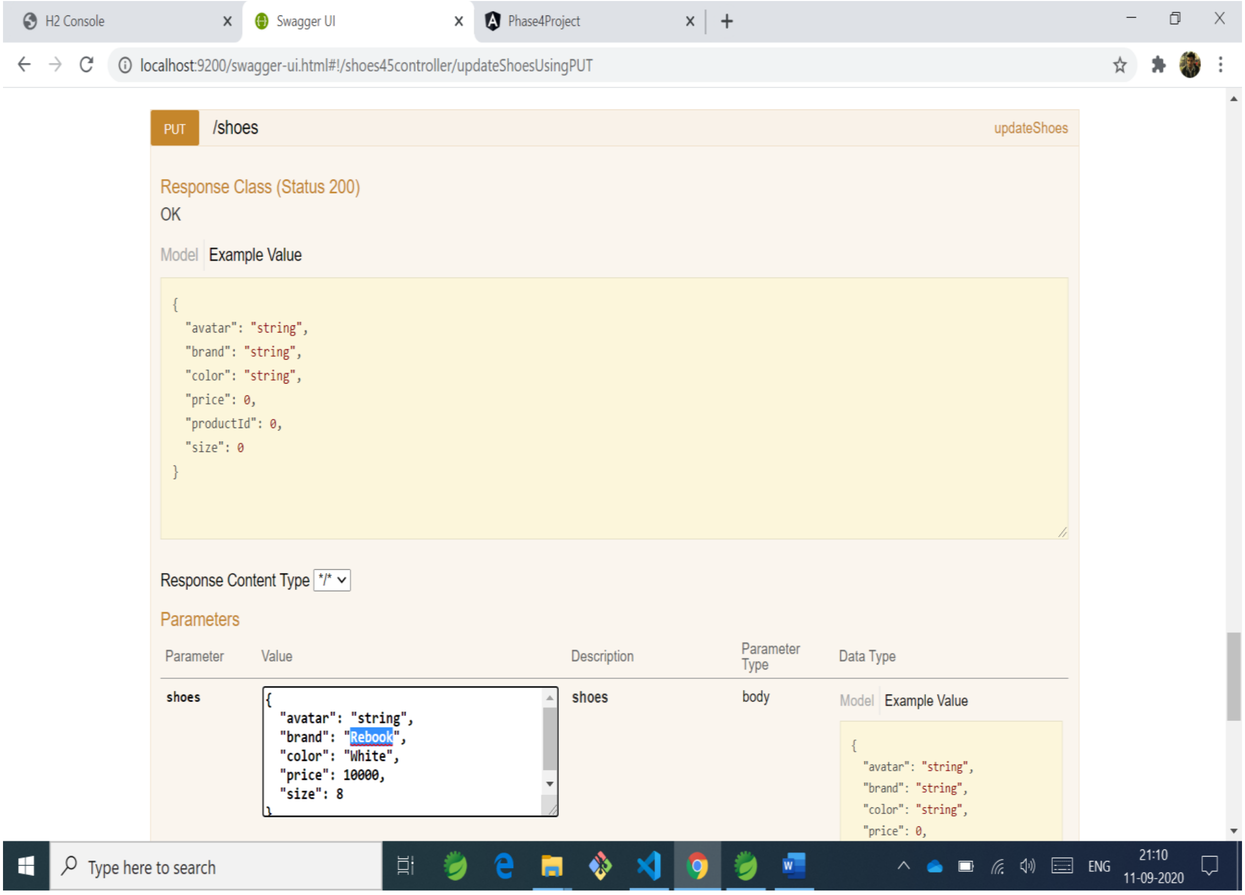
```
200
```

Response Headers

```
{
  "connection": "keep-alive",
  "content-type": "application/json",
  "date": "Fri, 11 Sep 2020 07:04:16 GMT",
  "keep-alive": "timeout=60",
  "transfer-encoding": "chunked",
  "vary": "Origin, Access-Control-Request-Method, Access-Control-Request-Headers"
}
```

POST /shoes addShoes

8. Below Image Shows the URI for Http Post Method



localhost:9200/swagger-ui.html#!/shoes45controller/updateShoesUsingPUT

PUT /shoes updateShoes

Response Class (Status 200)

OK

Model Example Value

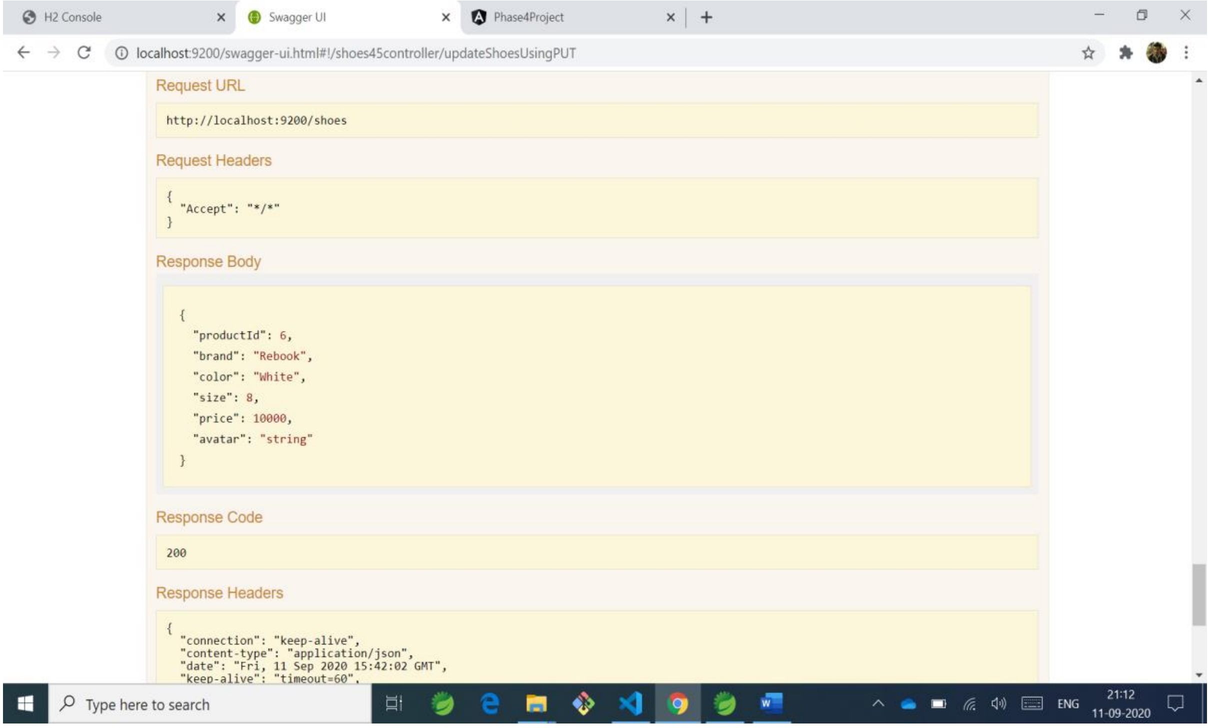
```
{
  "avatar": "string",
  "brand": "string",
  "color": "string",
  "price": 0,
  "productId": 0,
  "size": 0
}
```

Response Content Type */*

Parameters

Parameter	Value	Description	Parameter Type	Data Type
shoes	{ "avatar": "string", "brand": "Rebook", "color": "White", "price": 10000, "size": 8 }	shoes	body	Model Example Value { "avatar": "string", "brand": "string", "color": "string", "price": 0,

9. Image Shows the Execution of Post Method



localhost:9200/swagger-ui.html#!/shoes45controller/updateShoesUsingPUT

Request URL

```
http://localhost:9200/shoes
```

Request Headers

```
{
  "Accept": "*/*"
}
```

Response Body

```
{
  "productId": 6,
  "brand": "Rebook",
  "color": "White",
  "size": 8,
  "price": 10000,
  "avatar": "string"
}
```

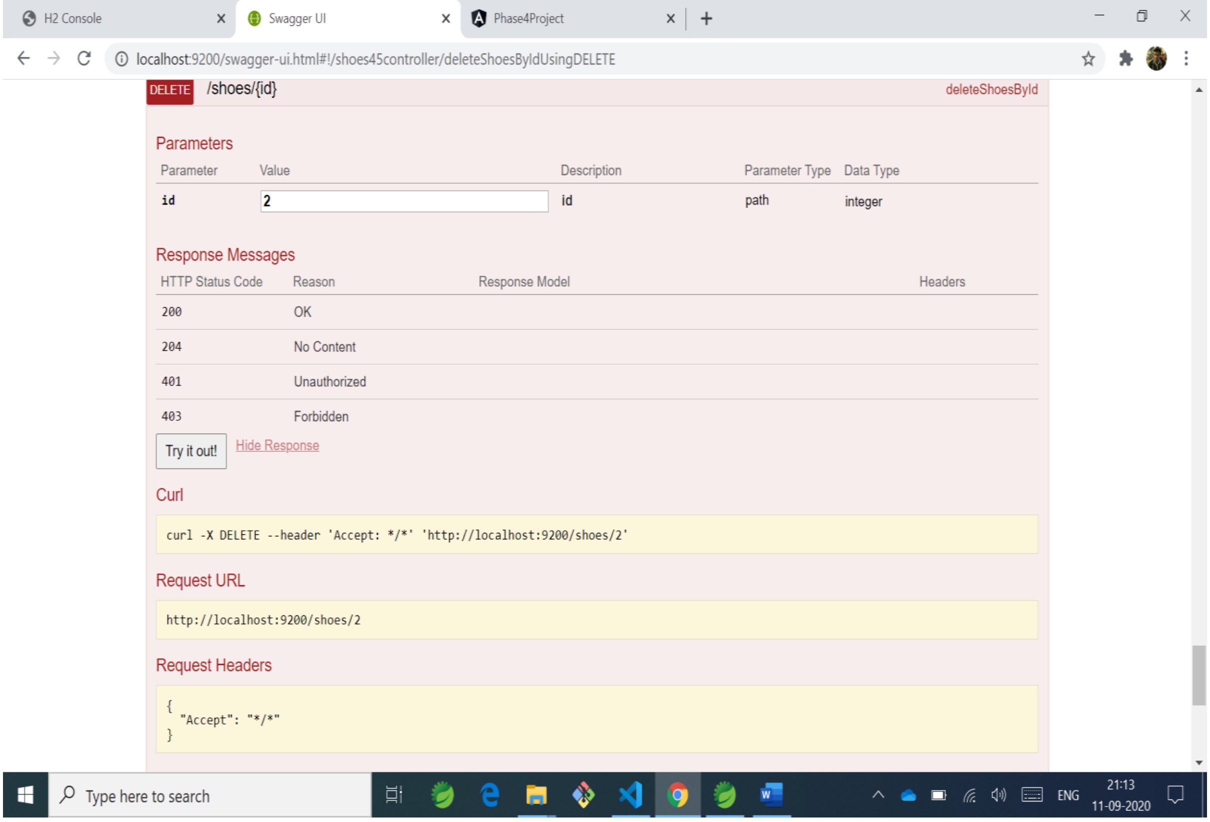
Response Code

```
200
```

Response Headers

```
{
  "connection": "keep-alive",
  "content-type": "application/json",
  "date": "Fri, 11 Sep 2020 15:42:02 GMT",
  "keep-alive": "timeout=60",
```

10. Below Image shows URI for Delete Http Method where I have provided ID



localhost:9200/swagger-ui.html#!/shoes45controller/deleteShoesByIdUsingDELETE

/shoes/{id}

Parameters

Parameter	Value	Description	Parameter Type	Data Type
id	2	id	path	integer

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	OK		
204	No Content		
401	Unauthorized		
403	Forbidden		

Curl

```
curl -X DELETE --header 'Accept: */*' 'http://localhost:9200/shoes/2'
```

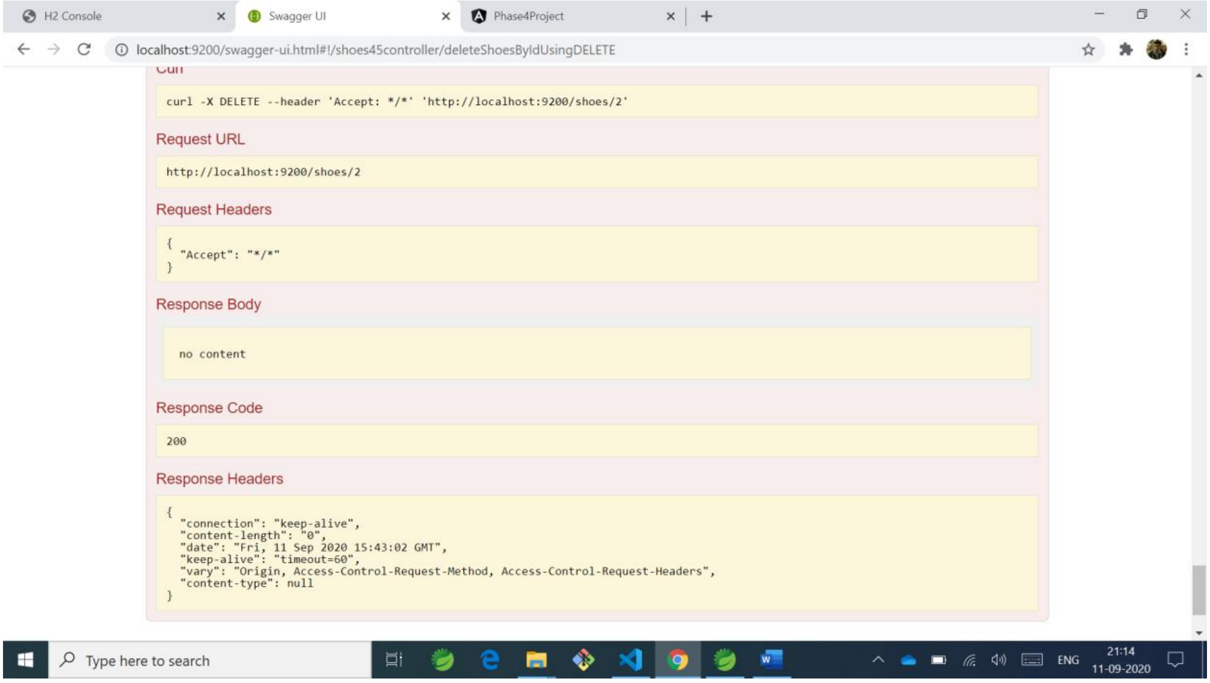
Request URL

```
http://localhost:9200/shoes/2
```

Request Headers

```
{
  "Accept": "*/*"
}
```

11. Delete Request Execution with Response code 200 ok


H2 Console
Swagger UI
Phase4Project
localhost:9200/swagger-ui.html#!/shoes45controller/deleteShoesByIdUsingDELETE
Curl

```
curl -X DELETE --header 'Accept: */*' 'http://localhost:9200/shoes/2'
```

Request URL

```
http://localhost:9200/shoes/2
```

Request Headers

```
{
  "Accept": "*/*"
}
```

Response Body

```
no content
```

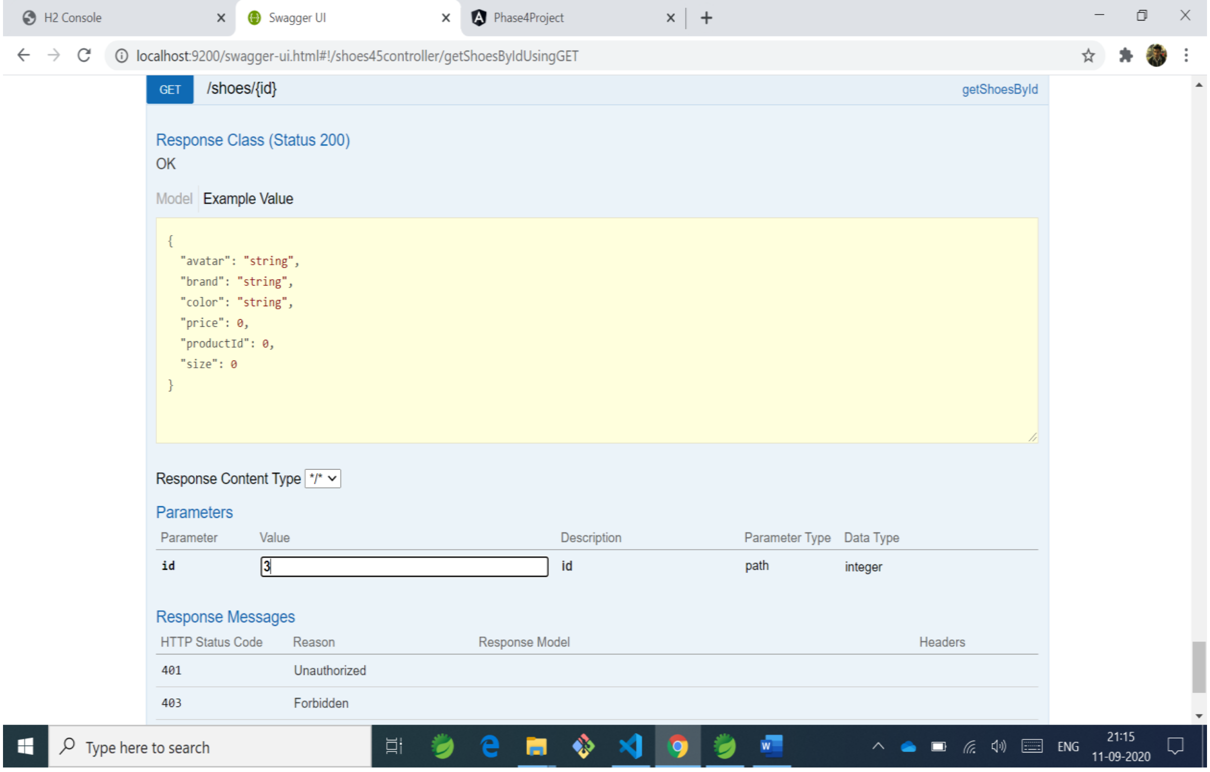
Response Code

```
200
```

Response Headers

```
{
  "connection": "keep-alive",
  "content-length": "0",
  "date": "Fri, 11 Sep 2020 15:43:02 GMT",
  "keep-alive": "timeout=60",
  "vary": "Origin, Access-Control-Request-Method, Access-Control-Request-Headers",
  "content-type": null
}
```

12. Http Get By Id Method where I have provided ID as 3


H2 Console
Swagger UI
Phase4Project
localhost:9200/swagger-ui.html#!/shoes45controller/getShoesByIdUsingGET
GET
/shoes/{id}
getShoesById

Response Class (Status 200)

OK

Model Example Value

```
{
  "avatar": "string",
  "brand": "string",
  "color": "string",
  "price": 0,
  "productId": 0,
  "size": 0
}
```

Response Content Type */*

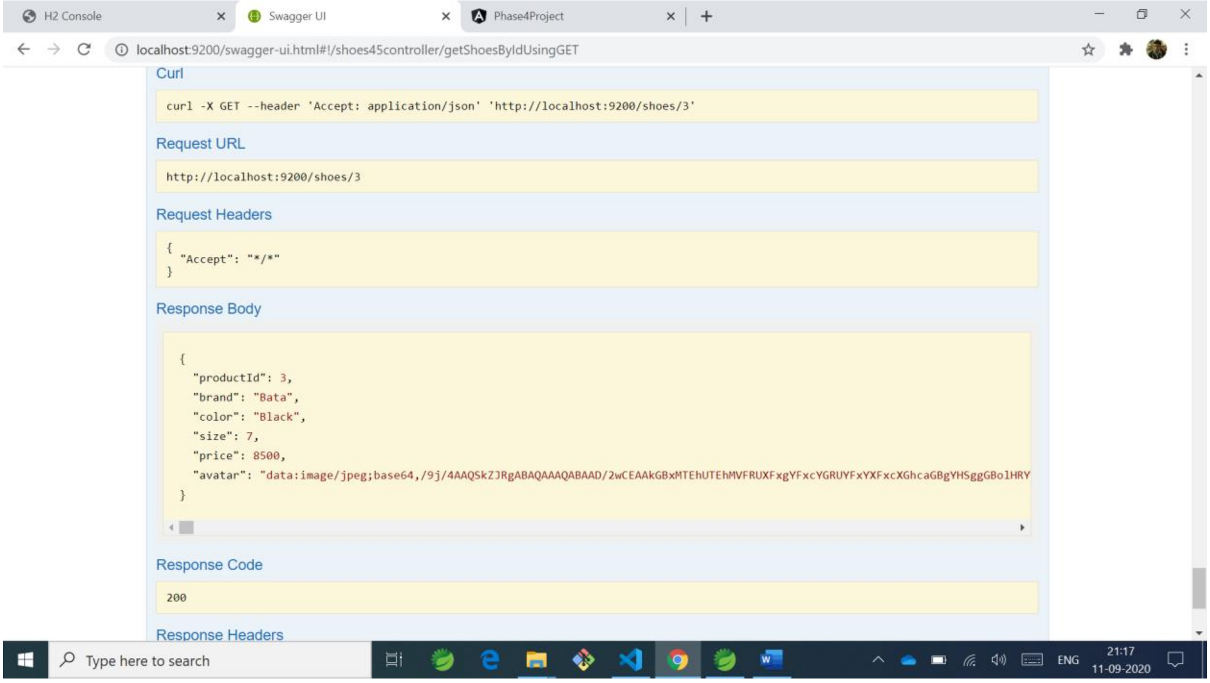
Parameters

Parameter	Value	Description	Parameter Type	Data Type
id	3	id	path	integer

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
403	Forbidden		

13. Execution of above method



localhost:9200/swagger-ui.html#!/shoes45controller/getShoesByIdUsingGET

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:9200/shoes/3'
```

Request URL

```
http://localhost:9200/shoes/3
```

Request Headers

```
{
  "Accept": "*/*"
}
```

Response Body

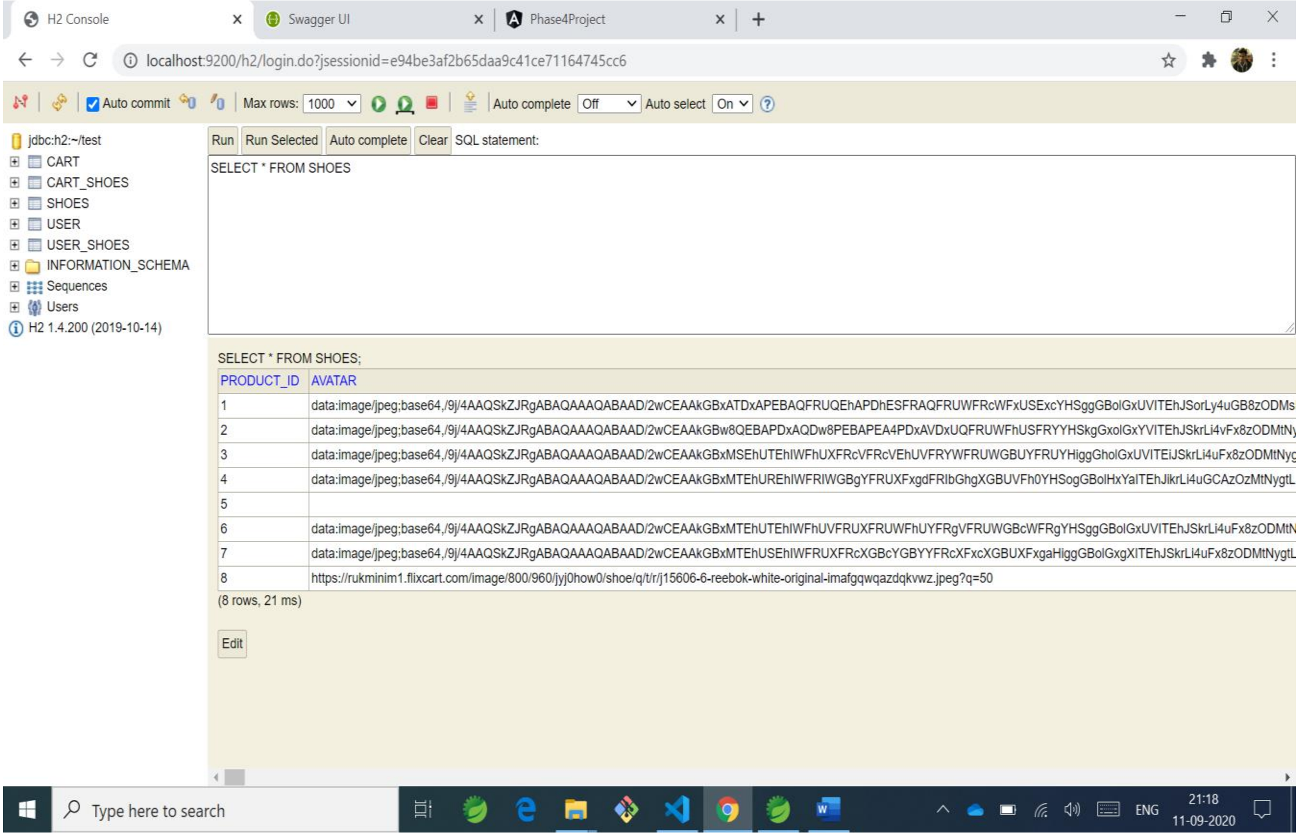
```
{
  "productId": 3,
  "brand": "Bata",
  "color": "Black",
  "size": 7,
  "price": 8500,
  "avatar": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxMTEhUTEhMVFRUXFxgYFxcYGRUYFxYXFxcXGhcaGBgYHSggGBolHRY
}
```

Response Code

```
200
```

Response Headers

14. As I have entered 8 shoes we can clearly see that these are being fed into H2 Database as shown below



localhost:9200/h2/login.do?jsessionid=e94be3af2b65daa9c41ce71164745cc6

☑ Auto commit Max rows: 1000 Auto complete Off Auto select On

SQL statement:

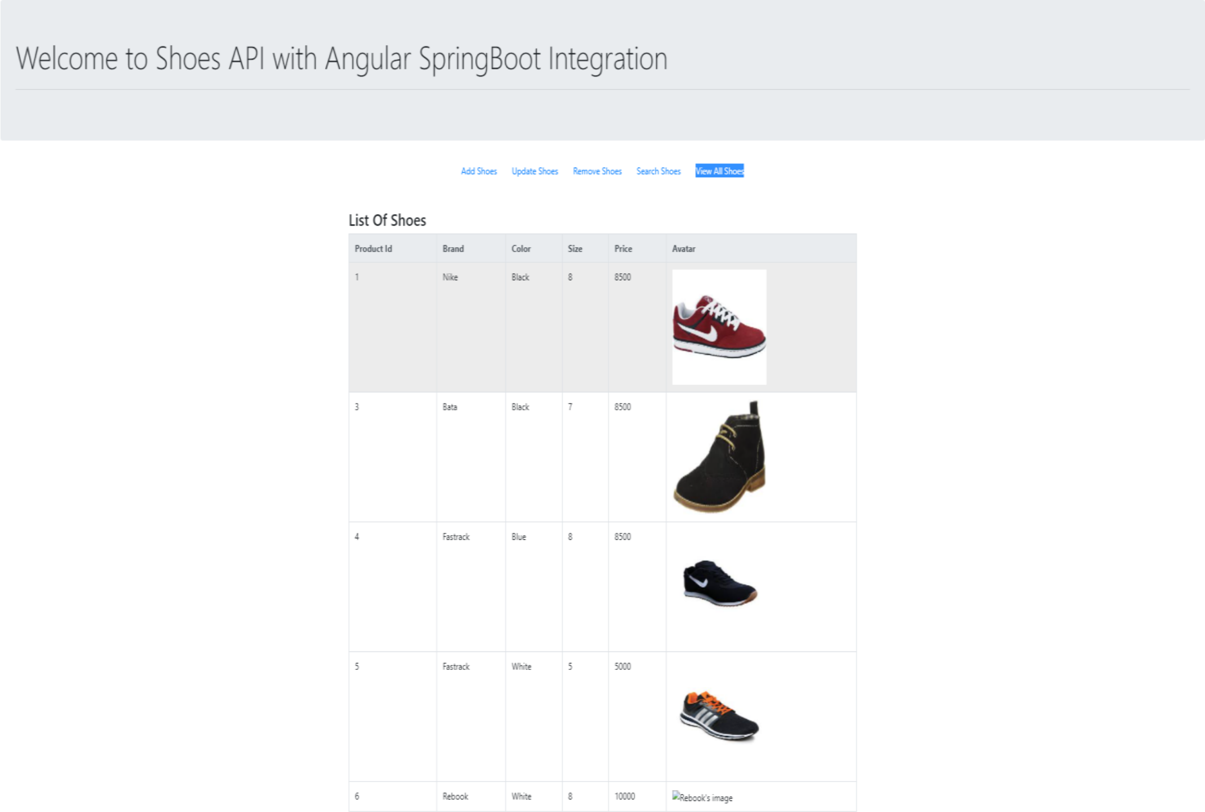
```
SELECT * FROM SHOES
```

SELECT * FROM SHOES;

PRODUCT_ID	AVATAR
1	data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxATDxAPEBAQFRUQEhAPDhESFRAQFRUWFRcWFxUSExcYHSggGBolGxUVITEhJSorLy4uGB8zODMs
2	data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBw8QEBAPDxAQDw8PEBAPEA4PDxAVDxUQFRUWFhUSFRYYHSkgGxolGxYVITEhJSkrLi4vFx8zODMtNy
3	data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxMSEhUTEhIWFhUXFRcVFRcVEhUVFRYWFRUWGBUYFRUYHiggGholGxUVITEiJSkrLi4uFx8zODMtNyg
4	data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxMTEhUREhIWFRIWGBgYFRUXFxgdFRIbGhgXGBUVFh0YHSogGBolHxYaITEhJikrLi4uGCAzOzMtNygtL
5	
6	data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxMTEhUTEhIWFhUVFRUXFRUWFhUYFRgVFRUWGBcWFRgYHSggGBolGxUVITEhJSkrLi4uFx8zODMtN
7	data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxMTEhUSEhIWFRUXFRcXGBcYGBYYFRcXFxcXGBUXFxgaHiggGBolGxgXITEhJSkrLi4uFx8zODMtNygtL
8	https://rukminim1.flixcart.com/image/800/960/jyj0how0/shoe/q/t/r/j15606-6-reebok-white-original-imafgqwqazdqkvwz.jpeg?q=50

(8 rows, 21 ms)

15. Browser’s home page(UI) for Shoes API using Angular is shown below with various links to it. Since I deleted shoes with id being 2, 7 & 8 for above screenshots

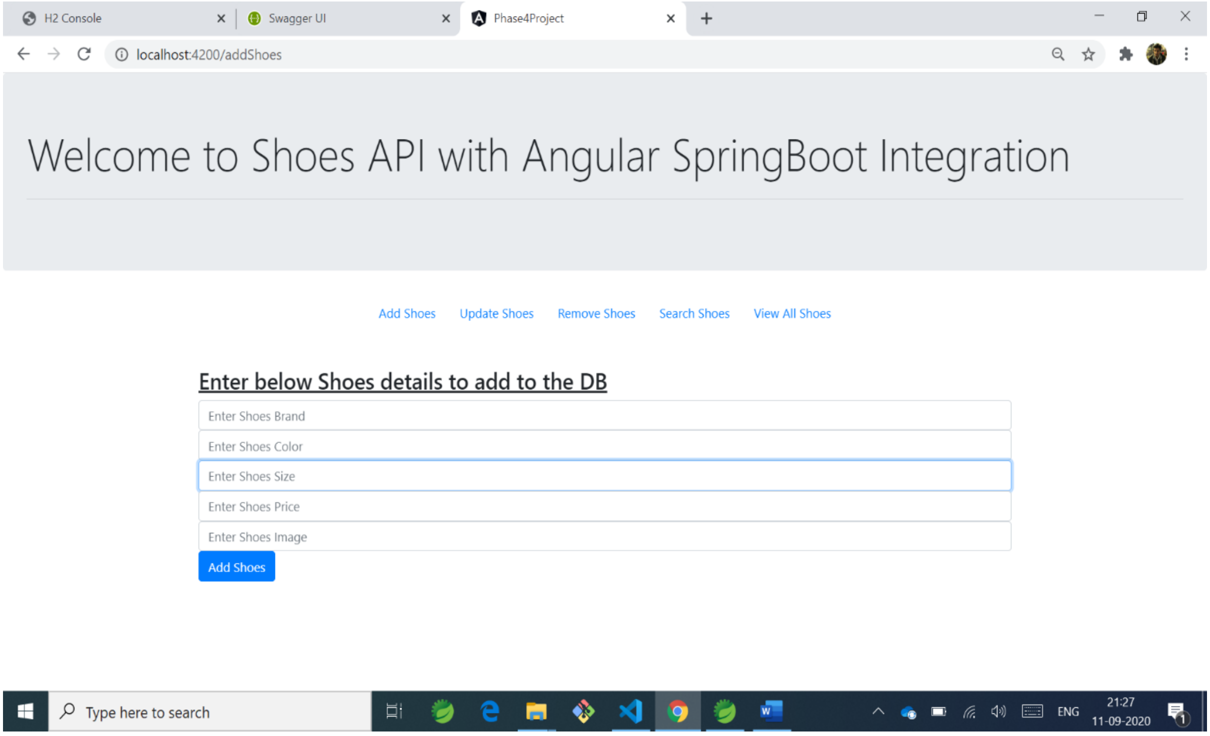


Welcome to Shoes API with Angular SpringBoot Integration

List Of Shoes

Product Id	Brand	Color	Size	Price	Avatar
1	Nike	Black	8	8500	
3	Bata	Black	7	8500	
4	Fastrack	Blue	8	8500	
5	Fastrack	White	5	5000	
6	Rebook	White	8	10000	Rebook's image

16. UI for Adding Shoes to Database



Welcome to Shoes API with Angular SpringBoot Integration

Enter below Shoes details to add to the DB

Enter Shoes Brand

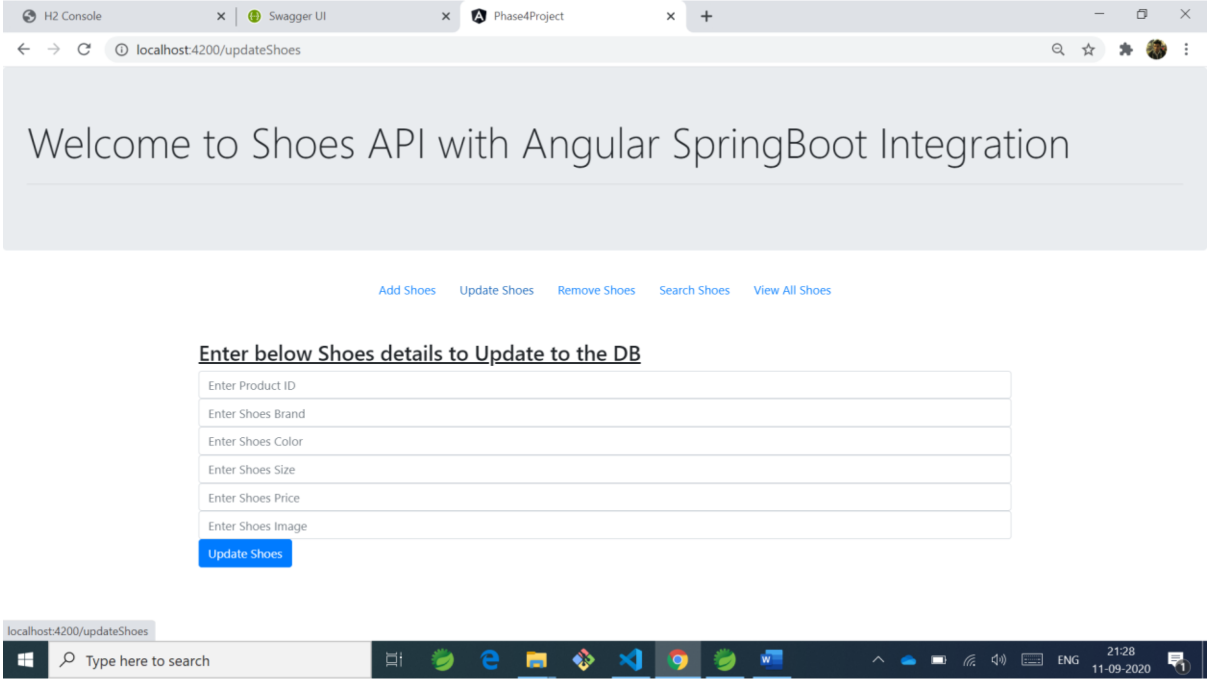
Enter Shoes Color

Enter Shoes Size

Enter Shoes Price

Enter Shoes Image

17. UI for Updating existing product in the Database



Welcome to Shoes API with Angular SpringBoot Integration

Add Shoes Update Shoes Remove Shoes Search Shoes View All Shoes

Enter below Shoes details to Update to the DB

Enter Product ID

Enter Shoes Brand

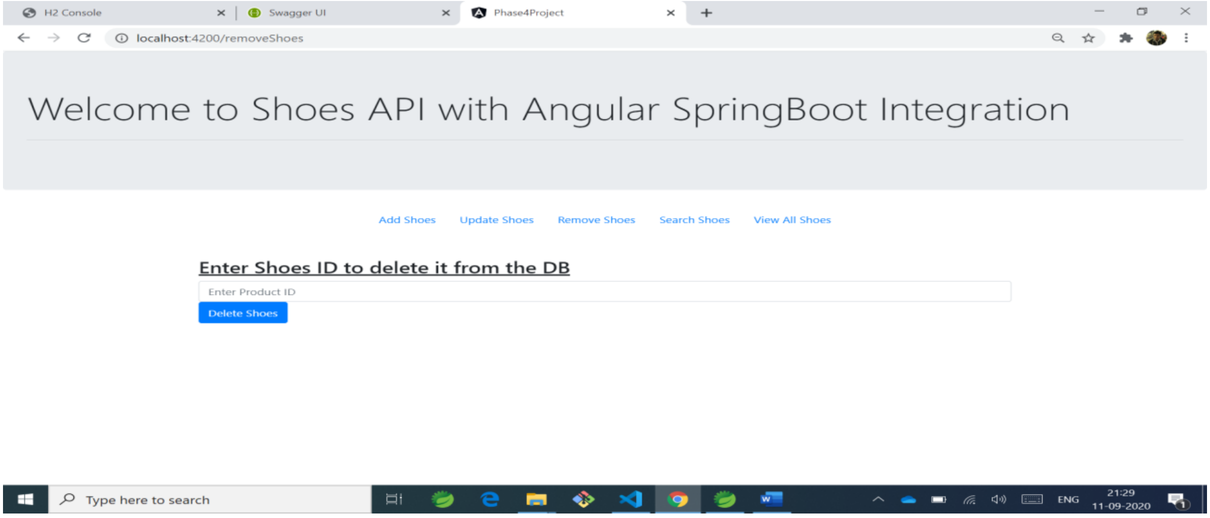
Enter Shoes Color

Enter Shoes Size

Enter Shoes Price

Enter Shoes Image

18. UI for Search and Delete

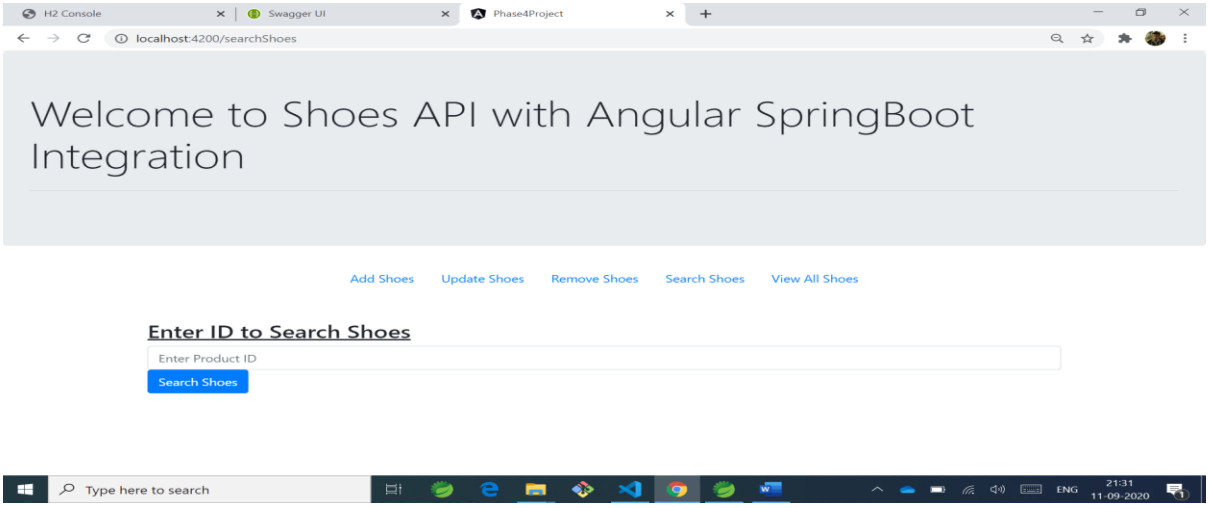


Welcome to Shoes API with Angular SpringBoot Integration

Add Shoes Update Shoes Remove Shoes Search Shoes View All Shoes

Enter Shoes ID to delete it from the DB

Enter Product ID



Welcome to Shoes API with Angular SpringBoot Integration

Add Shoes Update Shoes Remove Shoes Search Shoes View All Shoes

Enter ID to Search Shoes

Enter Product ID