

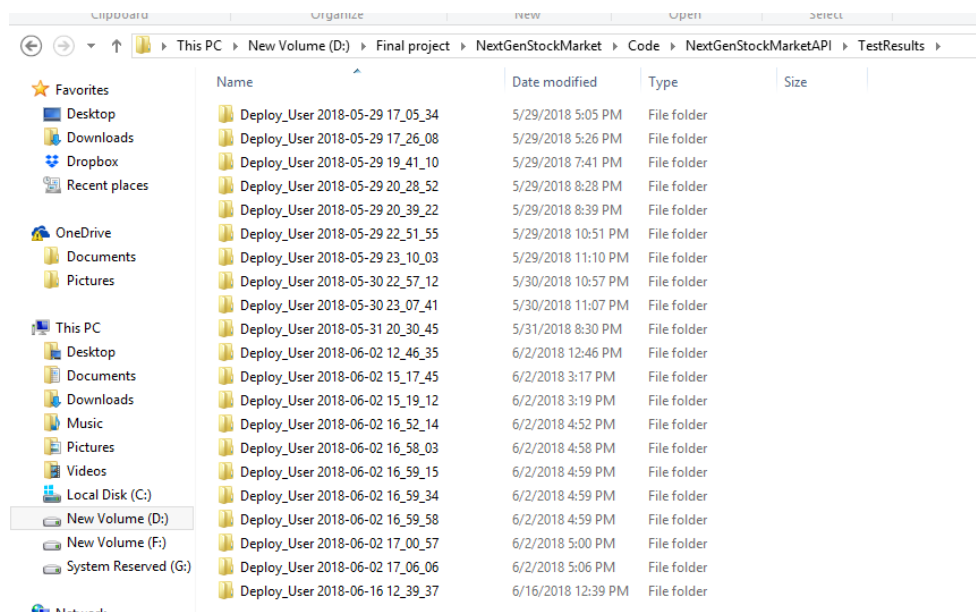
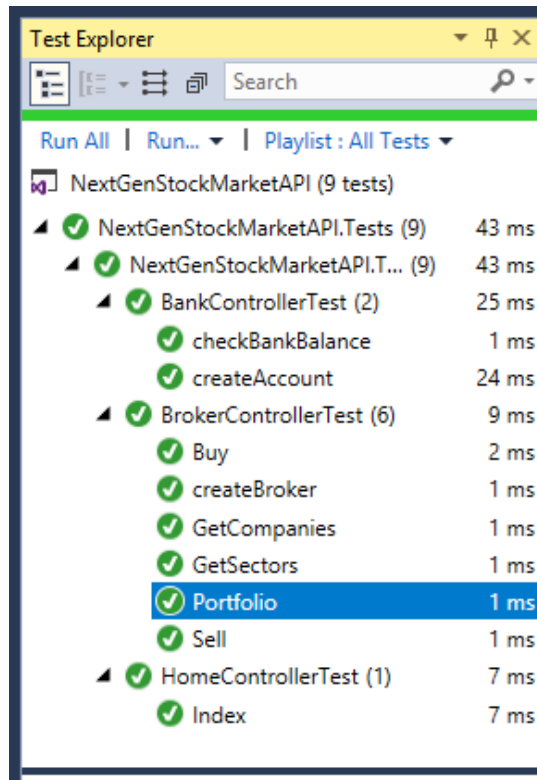
NextGenStockMarket

Testing Document



Unit testing

Evidence



NextGenStockMarketAPI - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Debug Any CPU IIS Express (Google)

Test Explorer

Run All | Run... | Playlist: All Tests

NextGenStockMarketAPI (13 tests) 1 failed

- NextGenStockMarketAPI.Tests (13) 1 sec
 - NextGenStockMarketAPI.Tests.Controllers (13) 1 sec
 - BankControllerTest (2) 754 ms
 - CheckBankBalance 456 ms
 - createAccount 297 ms
 - BrokerControllerTest (6) 8 ms
 - Buy 2 ms
 - createBroker 2 ms
 - GetCompanies 1 ms
 - GetSectors < 1 ms
 - Portfolio 1 ms
 - Sell 1 ms
 - GameControllerTest (4) 4 ms
 - connectedPlayers 1 ms
 - gameStatus 1 ms
 - getWinners < 1 ms
 - newGame < 1 ms
 - HomeControllerTest (1) 656 ms
 - Index 656 ms

BankControllerTest.cs

```

31
32
33
34
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40
41
42
43
44
45
46

```

Output

Show output from: Tests

[6/24/2018 7:56:39 PM Informa

[6/24/2018 7:56:58 PM Informa

Deploy_User 2018-06-21 05_21_57	6/21/2018 5:21 AM	File folder
Deploy_User 2018-06-21 05_34_58	6/21/2018 5:34 AM	File folder
Deploy_User 2018-06-21 05_43_30	6/21/2018 5:43 AM	File folder
Deploy_User 2018-06-21 05_45_03	6/21/2018 5:45 AM	File folder
Deploy_User 2018-06-21 05_47_58	6/21/2018 5:47 AM	File folder
Deploy_User 2018-06-21 06_24_25	6/21/2018 6:24 AM	File folder
Deploy_User 2018-06-21 06_27_25	6/21/2018 6:27 AM	File folder
Deploy_User 2018-06-23 07_23_59	6/23/2018 7:23 AM	File folder
Deploy_User 2018-06-23 08_41_05	6/23/2018 8:41 AM	File folder
Deploy_User 2018-06-23 08_42_54	6/23/2018 8:42 AM	File folder
Deploy_User 2018-06-23 08_43_16	6/23/2018 8:43 AM	File folder
Deploy_User 2018-06-23 08_57_33	6/23/2018 8:57 AM	File folder
Deploy_User 2018-06-23 08_59_13	6/23/2018 8:59 AM	File folder
Deploy_User 2018-06-23 09_14_53	6/23/2018 9:14 AM	File folder
Deploy_User 2018-06-23 18_31_12	6/23/2018 6:31 PM	File folder
Deploy_User 2018-06-24 19_56_54	6/24/2018 7:56 PM	File folder

Back end manual testing

- When execute the back end can see the below screen first.

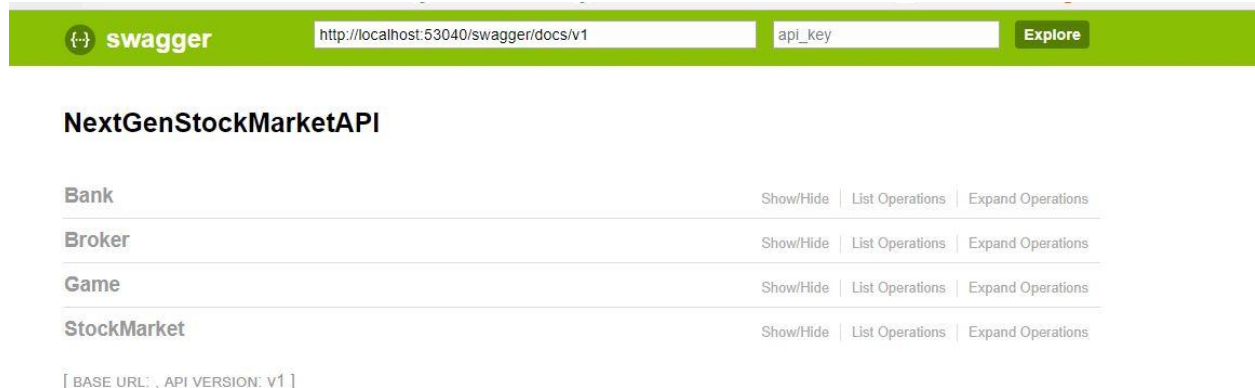
NextGen Stock Market Simulation API

Contributors

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- Buddhi Kavee
- Amila Sandaruwan
- Chamini Makawita

[View Api](#)

- Click on view Api to see the below screen



The image shows the Swagger UI interface for the NextGenStockMarketAPI. At the top, there is a green header bar with the Swagger logo, the API name "NextGenStockMarketAPI", and a search bar containing "http://localhost:53040/swagger/docs/v1". Below the header, the API name "NextGenStockMarketAPI" is displayed. Underneath, there is a table listing the API's resources: Bank, Broker, Game, and StockMarket. Each resource has a "Show/Hide" button, a "List Operations" button, and an "Expand Operations" button. At the bottom, there is a footer indicating the base URL and API version: "[BASE URL: , API VERSION: v1]".

Resource	Show/Hide	List Operations	Expand Operations
Bank	Show/Hide	List Operations	Expand Operations
Broker	Show/Hide	List Operations	Expand Operations
Game	Show/Hide	List Operations	Expand Operations
StockMarket	Show/Hide	List Operations	Expand Operations

[BASE URL: , API VERSION: v1]

- Then click on Bank to view the functions it contains...
- It contains
 - Create account
 - Bank balance
 - Deposit
 - Withdraw
 - Get account

NextGenStockMarketAPI

Bank		Show/Hide	List Operations	Expand Operations
POST	/api/v1/bank/createaccount			
GET	/api/v1/bank/bankbalance			
PUT	/api/v1/bank/deposit			
PUT	/api/v1/bank/withdraw			
GET	/api/v1/bank/getaccount			
Broker		Show/Hide	List Operations	Expand Operations
Game		Show/Hide	List Operations	Expand Operations
StockMarket		Show/Hide	List Operations	Expand Operations
[BASE URL: , API VERSION: v1]				

Bank Api

Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
1	Create bank account	Player should enter name.	Name = "Thathsarani"	Response code should be 200	Response code = 200 (see Image : Test1)	Pass	
2	Create bank account	Player not enter name		Response code should not be 200	Response code is 500 (see Image : Test2) Should display an error	Pass	
3	Create bank account	Player enter an existing name	Name = "Thathsarani"	Response code should not be 200	Response code is 500 (see Image : Test3) Should display an error	Pass	
4	Check bank balance	Enter player's name which is already registered	Name = "Thathsarani"	Response code should be 200 Display the current balance	Response code is 200 (see Image : Test4) Display the current balance	Pass	
5	Check bank balance	Enter player's name which is not registered	Name = "Salmaan"	Response code should not be 200	Response code is 500. Exception displayed as No bank account exist for the provided player name.(See image: Test5)	Pass	
6	Deposit	Enter players name & Amount needs to deposit	Name = "Thathsarani" Price = "99"	Response code should be 200	Response code is 200 (See Image: Test6,Test7)	Pass	

Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
7	Deposit	Enter player's name which is not registered with amount to deposit	Name= "Salmaan" Price = 1001	Response code should not be 200	Response code is 500. (See image: Test8, Test9)	Pass	
8	Withdraw	Enter players name with valid withdraw amount	Name = "Thathsarani" Price= "1000"	Response code should be 200	Response code is 200 (See Image: Test10, Test11)	Pass	
9	Get Account	Enter players name	Name= "Thathsarani"	Response code should be 200	Response code is 200 & show the bank transaction history (See Image 12, 13)	Pass	

Image: Test1

Parameters

Parameter	Value	Description	Parameter Type	Data Type
bankAccount	<pre>{ "PlayerName": "Thathsarani", "Balance": 1000 }</pre>		body	<div>Model</div> <div>Example Value</div> <pre>{ "PlayerName": "string", "Balance": 0 }</pre>

Parameter content type:
application/json

Try it out! [Hide Response](#)

Curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
  "PlayerName": "Thathsarani", \
  "Balance": 1000 \
}' 'http://localhost:53040/api/v1/bank/createaccount'
```

Request URL

```
http://localhost:53040/api/v1/bank/createaccount
```

Response Body

```
{
  "PlayerName": "Thathsarani",
  "Balance": 1000
}
```

Response Code

```
200
```

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sat, 23 Jun 2018 13:14:31 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "access-control-allow-origin": "*",
  "cache-control": "no-cache",
  "x-sourcefiles": "?UTF-8?B?RDpcRmluYWwgCHJvanVjdFxoZXh8R2VuU3RvY2tNYXJrZXRCQ29kZWxoZXh8R2VuU3RvY2tNYXJrZXRBUE1cTnV4dEd1b1N8b2Nr",
  "content-length": "45",
  "expires": "-1"
}
```


Image: Test 2

Parameter	Value	Description	Parameter Type	Data Type				
bankAccount	<pre>{ "PlayerName": , "Balance": 0 }</pre>		body	<table><tr><th>Model</th><th>Example Value</th></tr><tr><td></td><td><pre>{ "PlayerName": "string", "Balance": 0 }</pre></td></tr></table>	Model	Example Value		<pre>{ "PlayerName": "string", "Balance": 0 }</pre>
Model	Example Value							
	<pre>{ "PlayerName": "string", "Balance": 0 }</pre>							

Try it out!

Hide Response

Curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{  \  "PlayerName": ,  "Balance": 0 }' http://localhost:53040/api/v1/bank/createaccount'
```

Request URL

```
http://localhost:53040/api/v1/bank/createaccount
```

Response Body

```
{  "Message": "An error has occurred.",  "ExceptionMessage": "Can't create a account. Maxinum players are connected!",  "ExceptionType": "System.Exception",  "StackTrace": "   at NextGenStockMarket.Service.GameService.CreatePlayer(Players player) in D:\\\\Final project\\\\NextGenStockMa" }
```

Response Code

```
500
```

Response Headers

```
{  "pragma": "no-cache",  "date": "Sat, 23 Jun 2018 14:01:25 GMT",  "server": "Microsoft-IIS/10.0",  "x-aspnet-version": "4.0.30319",  "x-powered-by": "ASP.NET",  "content-type": "application/json; charset=utf-8",  "access-control-allow-origin": "*",  "cache-control": "no-cache",  "x-sourcefiles": "?UTF-8?RDpcRnluYWwgchJvanVjdFxoZXh0R2VuU3RvY2t1bnVXJrZXRlcQ29kZVxoZXh0R2VuU3RvY2t1bnVXJrZXRBUE1cTnV4dEd1b1N0b2Nr",  "content-length": "2560",  "expires": "-1" }
```

Image: Test3

Parameter	Value	Description	Parameter Type	Data Type
bankAccount	<pre>{ "PlayerName": "Thathsarani", "Balance": 0 }</pre>		body	Model Example Value <pre>{ "PlayerName": "string", "Balance": 0 }</pre>

Parameter content type:
application/json

Try it out! [Hide Response](#)

Curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
  "PlayerName": "Thathsarani", \
  "Balance": 0 \
}' 'http://localhost:53040/api/v1/bank/createaccount'
```

Request URL

```
http://localhost:53040/api/v1/bank/createaccount
```

Response Body

```
{
  "Message": "An error has occurred.",
  "ExceptionMessage": "Player Name already exists.Please try a different player name",
  "ExceptionType": "System.Exception",
  "StackTrace": "   at NextGenStockMarket.Service.GameService.CreatePlayer(Players player) in D:\\\\Final project\\\\NextGenStockMa
}
```

Response Code

```
500
```

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sat, 23 Jun 2018 13:52:00 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "access-control-allow-origin": "*",
  "cache-control": "no-cache",
  "x-sourcefiles": "?UTF-8?B?RDpcRmluYm9wcHJvanVjdFxoZXh8R2VuU3RvY2tNYXJrZXRCQ29kZVxoZXh8R2VuU3RvY2tNYXJrZXRBUE1cTnV4dEd1b1N8b2Nr",
  "content-length": "2567",
  "expires": "-1"
}
```

Image: Test4

Parameter	value	Description	Parameter type	Data type
playerName	Thathsarani		query	string

Try it out

Hide Response

Curl

curl -X GET --header 'Accept: application/json' 'http://localhost:53040/api/v1/bank/bankbalance?playerName=Thathsarani'

Request URL

http://localhost:53040/api/v1/bank/bankbalance?playerName=Thathsarani

Response Body

```
{
  "Accounts": {
    "PlayerName": "Thathsarani",
    "Balance": 0
  },
  "BankTransactions": [],
  "CurrentTurn": 0
}
```

Response Code

200

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 05:40:52 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "cache-control": "no-cache",
  "x-sourcefiles": "?UTF-8?RDpcRm1uYWwgCHJvamVjdFxoZXh0R2VuU3RvY2tNYXJrZXRcQ29kZVx0ZXh0R2VuU3RvY2tNYXJrZXRBUE1cTmV4dEdlb1N0b2Nr",
  "content-length": "93",
  "expires": "-1"
}
```

Image: Test5

Parameter	value	Description	Parameter type	Data type
playerName	<input type="text" value="salmaan"/>		query	string

[Try it out!](#) [Hide Response](#)

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:53040/api/v1/bank/bankbalance?playerName=salmaan'
```

Request URL

```
http://localhost:53040/api/v1/bank/bankbalance?playerName=salmaan
```

Response Body

```
{
  "Message": "An error has occurred.",
  "ExceptionMessage": "No bank account exists for provided player",
  "ExceptionType": "System.Exception",
  "StackTrace": "   at NextGenStockMarket.Service.BankService.<ShowBankBalance>d__6.MoveNext() in D:\\\\Final project\\\\NextGenSto"
}
```

Response Code

```
500
```

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 05:44:07 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "cache-control": "no-cache",
  "x-sourcefiles": "=?UTF-8?B?RDpcRmluYWwgCHJvamVjdFxoZXh0R2VuU3RvY2tNYXJrZXRcQ29kZVxoZXh0R2VuU3RvY2tNYXJrZXRBUE1cTmV4dEd1b1N0b2Nr",
  "content-length": "2337",
  "expires": "-1"
}
```

Image: Test6

PUT /api/v1/bank/deposit

Response Class (Status 200)
OK

Model | Example Value

{ }

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
transaction	<div><pre>{ "PlayerName": "Thathsarani", "Turn": 1, "Transceiver": "string", "Price": 99, "Status": "" }</pre></div> <div>Parameter content type: application/json ▼</div>		body	<div>Model Example Value</div> <div><pre>{ "PlayerName": "string", "Turn": 0, "Transceiver": "string", "Price": 0, "Status": "string" }</pre></div>

Try it out!

[Hide Response](#)

Curl

```
curl -X PUT --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
  "PlayerName": "Thathsarani", \
  "Turn": 1, \
  "Transceiver": "string", \
  "Price": 99, \
  "Status": "" \
}' 'http://localhost:53040/api/v1/bank/deposit'
```

Image: Test7

Request URL

http://localhost:53040/api/v1/bank/deposit

Response Body

```
{
  "Accounts": {
    "PlayerName": "Thathsarani",
    "Balance": 99
  },
  "BankTransactions": [
    {
      "PlayerName": "Thathsarani",
      "Turn": 1,
      "Transceiver": "string",
      "Price": 99,
      "Status": "Deposit"
    }
  ],
  "CurrentTurn": 1
}
```

Response Code

200

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 05:54:14 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "access-control-allow-origin": "*",
  "cache-control": "no-cache",
  "x-sourcefiles": "=?UTF-8?0?RDpcRm1uYWwgchJvamVjdFxoZXh0R2VuU3RvY2tNYXJrZXRCQ29kZVxoZXh0R2VuU3RvY2tNYXJrZXRBUE1cTmV4dEd1b1N0b2Nr",
  "content-length": "186",
  "expires": "-1"
}
```

Image: Test 8

PUT /api/v1/bank/deposit

Response Class (Status 200)
OK

Model | Example Value

{}

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
transaction	<div><div><pre>{ "playerName": "salmaan", "Turn": 1, "Transceiver": "string", "Price": 1001, "Status": "" }</pre></div><div>Parameter content type: application/json ▼</div></div>		body	<div>Model Example Value</div> <div><pre>{ "PlayerName": "string", "Turn": 0, "Transceiver": "string", "Price": 0, "Status": "string" }</pre></div>

Try it out!

[Hide Response](#)

Curl

```
curl -X PUT --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \n  "PlayerName": "salmaan", \n  "Turn": 1, \n  "Transceiver": "string", \n  "Price": 1001, \n  "Status": "" \n}' 'http://localhost:53040/api/v1/bank/deposit'
```

Request URL

```
http://localhost:53040/api/v1/bank/deposit
```

Response Body

Image: Test 9

Request URL

http://localhost:53040/api/v1/bank/deposit

Response Body

```
{
  "Message": "An error has occurred.",
  "ExceptionMessage": "No bank account exists for provided player",
  "ExceptionType": "System.Exception",
  "StackTrace": "   at NextGenStockMarket.Service.BankService.<Deposit>d__7.MoveNext() in D:\\Final project\\NextGenStockMarket"
}
```

Response Code

500

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 06:04:52 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "access-control-allow-origin": "*",
  "cache-control": "no-cache",
  "x-sourcefiles": "=?UTF-8?B?RDpcRmluYWwgCHJvamVjdFxoZXh0R2VuU3RvY2tNYXJrZXRCQ29kZVxoZXh0R2VuU3RvY2tNYXJrZXRBUE1cTmV4dEd1b1N0b2Nr",
  "content-length": "2333",
  "expires": "-1"
}
```


Image: Test 10

PUT /api/v1/bank/withdraw

Response Class (Status 200)
OK

Model | Example Value

{}

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
transaction	<div><pre>{ "PlayerName": "Thathsarani", "Turn": 0, "Transceiver": "string", "Price": 1000, "Status": "string" }</pre></div> <div>Parameter content type: application/json ▼</div>		body	<div>Model Example Value</div> <div><pre>{ "PlayerName": "string", "Turn": 0, "Transceiver": "string", "Price": 0, "Status": "string" }</pre></div>

Try it out!

[Hide Response](#)

Curl

```
curl -X PUT --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
  "PlayerName": "Thathsarani", \
  "Turn": 0, \
  "Transceiver": "string", \
  "Price": 1000, \
  "Status": "string" \
}' 'http://localhost:53040/api/v1/bank/withdraw'
```

Request URL

http://localhost:53040/api/v1/bank/withdraw

Image: Test 11

Response Body

```
{
  "Price": 901,
  "Status": "Deposit"
},
{
  "PlayerName": "Thathsarani",
  "Turn": 1,
  "Transceiver": "string",
  "Price": 99,
  "Status": "Deposit"
},
{
  "PlayerName": "Thathsarani",
  "Turn": 0,
  "Transceiver": "string",
  "Price": 1000,
  "Status": "Withdraw"
}
],
"CurrentTurn": 1
}
```

Response Code

200

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 06:17:06 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "access-control-allow-origin": "*",
  "cache-control": "no-cache",
  "x-sourcefiles": "?UTF-8?RDpcRm1uYWwgCHJvamVjdFxoZXh0R2VuU3RvY2tNYXJrZXRBUE1cTmV4dEd1b1N0b2Nr",
  "content-length": "657",
  "expires": "-1"
}
```

Image: Test12

GET /api/v1/bank/getaccount

Response Class (Status 200)
OK

Model

Example Value

{ }

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
playerName	<input type="text" value="Thathsarani"/>		query	string

Try it out!

[Hide Response](#)

Curl

curl -X GET --header 'Accept: application/json' 'http://localhost:53040/api/v1/bank/getaccount?playerName=Thathsarani'

Request URL

http://localhost:53040/api/v1/bank/getaccount?playerName=Thathsarani

Response Body

```
{
  "Price": 99,
  "Status": "Deposit"
},
{
  "PlayerName": "Thathsarani",
  "Turn": 0,
  "Transceiver": "string",
  "Price": 1000,
  "Status": "Withdraw"
},
```

Image: Test13

```
{
  "Accounts": {
    "PlayerName": "Thathsarani",
    "Balance": -500
  },
  "BankTransactions": [
    {
      "PlayerName": "Thathsarani",
      "Turn": 1,
      "Transceiver": "string",
      "Price": 99,
      "Status": "Deposit"
    },
    {
      "PlayerName": "Thathsarani",
      "Turn": 1,
      "Transceiver": "string",
      "Price": 0,
      "Status": "Deposit"
    },
  ]
}
```

Image: test14

Response Code

200

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 06:25:11 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "cache-control": "no-cache",
  "x-sourcefiles": "=?UTF-8?B?RDpcRmluYWwgCHJvamVjdFh0R2VuU3RvY2tNYXJrZXRCQ29kZVx0ZXh0R2VuU3RvY2tNYXJrZXRBUe1cTmV4dEd1b1",
  "content-length": "753",
  "expires": "-1"
}
```

◀

Broker Api

Click on Broker to view the functions it contains...

It contains

- Create account
- Get sectors
- Get stocks
- Buy
- Sell
- Portfolio

Bank

Show/Hide | List Operations | Expand Operations

Broker

Show/Hide | List Operations | Expand Operations

POST	/api/v1/broker/createaccount
GET	/api/v1/broker/getsectors
GET	/api/v1/broker/getstocks
POST	/api/v1/broker/buy
POST	/api/v1/broker/sell
GET	/api/v1/broker/portfolio

Game

Show/Hide | List Operations | Expand Operations

StockMarket

Show/Hide | List Operations | Expand Operations

Broker Api

Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
10	Create broker account	Enter registered player's name	Name="Thatsarani"	Response code should be 200	Response code is 200 (Image: Test 15)	Pass	
11	Create broker account	Enter player's name which not registered	Name="Salman"	Response code should not be 200	Response code is 500(Image: Test 16)	Pass	

Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
12	Get the available sectors	Before run stock market api click on try it out button		Response code should not be 200	Response code is 500 (See Image: Test 17)	Pass	
13	Get the available sectors	After run stock market api click on try it out button		Response code should be 200	Response code is 200 (See Image: Test 18)	Pass	
14	Get the stock	Before run stock market api click on try it out button	Company name = "Google"	Response code should not be 200	Response code is 500 (See Image: Test 19)	Pass	
15	Get the stock	After run stock market api click on try it out button	Company name = "Google"	Response code should be 200	Response code is 200 (See Image: Test 20)	Pass	

Image: Test 15

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
playerName	Thatsarani		query	string

[Try it out!](#) [Hide Response](#)

Curl

```
curl -X POST --header 'Accept: application/json' 'http://localhost:53040/api/v1/broker/createaccount?playerName=Thatsarani'
```

Request URL

```
http://localhost:53040/api/v1/broker/createaccount?playerName=Thatsarani
```

Response Body

```
{
  "PlayerName": "Thatsarani"
}
```

Response Code

```
200
```

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 06:35:49 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
}
```

Image: Test16

Parameters

Parameter	Value	Description	Parameter Type	Data Type
playerName	Salman		query	string

[Try it out!](#) [Hide Response](#)

Curl

```
curl -X POST --header 'Accept: application/json' 'http://localhost:53040/api/v1/broker/createaccount?playerName=Salman'
```

Request URL

```
http://localhost:53040/api/v1/broker/createaccount?playerName=Salman
```

Response Body

```
{
  "Message": "An error has occurred.",
  "ExceptionMessage": "Bank account needs to be created first!",
  "ExceptionType": "System.Exception",
  "StackTrace": "    at NextGenStockMarket.Service.BrokerService.<CreateAccount>d__3.MoveNext() in D:\\Final project\\NextGenSto"
}
```

Response Code

```
500
```

Response Headers

Image: Test17

Response Class (Status 200)
OK

Model | **Example Value**

```
{}
```

Response Content Type application/json [Hide Response](#)

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:53040/api/v1/broker/getsectors'
```

Request URL

```
http://localhost:53040/api/v1/broker/getsectors
```

Response Body

```
{
  "Message": "An error has occurred.",
  "ExceptionMessage": "Stock market is empty",
  "ExceptionType": "System.Exception",
  "StackTrace": "    at NextGenStockMarket.Service.BrokerService.<GetSectors>d__4.MoveNext() in D:\\Final project\\NextGenStockM"
}
```

Response Code

```
500
```

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 10:29:22 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "cache-control": "no-cache",
  "x-sourcefiles": "?UTF-8?B?RDpcRnluYWwgchJvanVjdfxOZXh0R2VuU3RvV2tNYXJrZXRlcQ29kZVxvO2Zh0R2VuU3RvV2tNYXJrZXRBUe1cTnV4dEdlb1N0b2Nn",
  "content-length": "2328",
  "expires": "-1"
}
```

Image: Test18

GET /api/v1/broker/getsectors

Response Class (Status 200)
OK

Model | Example Value

```
{}
```

Response Content Type

[Try it out!](#) [Hide Response](#)

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:53040/api/v1/broker/getsectors'
```

Request URL

```
http://localhost:53040/api/v1/broker/getsectors
```

Response Body

```
[
  "Google",
  "Yahoo",
  "Microsoft",
  "Amazon"
]
```

Response Code

```
200
```

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 10:23:34 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "cache-control": "no-cache",
  "x-sourcefiles": "=?UTF-8?B?RDpcRm1uYWwgCHJvanVjdFh0ZXh0R2VuU3RvY2tNYXJrZXRBUE1cTnV4dEd1b1N0b2Nr",
  "content-length": "39",
  "expires": "-1"
}
```


Image: Test19

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
companyName	google		query	string

[Try it out!](#) [Hide Response](#)

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:53040/api/v1/broker/getstocks?companyName=google'
```

Request URL

```
http://localhost:53040/api/v1/broker/getstocks?companyName=google
```

Response Body

```
{
  "Message": "An error has occurred.",
  "ExceptionMessage": "Stock market is empty",
  "ExceptionType": "System.Exception",
  "StackTrace": "   at NextGenStockMarket.Service.BrokerService.<GetStocks>d__5.MoveNext() in D:\\Final project\\NextGenStockMa
}
```

Response Code

```
500
```

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 10:37:35 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "cache-control": "no-cache",
  "x-sourcefiles": "=?UTF-8?B?RDpcRmluYWwgCHJvamVjdFxoZXh0R2VuU3RvY2tNYXJrZXRCQ29kZVxoZXh0R2VuU3RvY2tNYXJrZXRBUE1cTmV4dEd1b1N0b2Nr",
  "content-length": "2324",
  "expires": "-1"
}
```

Image: Test 20

Parameters

Parameter	Value	Description	Parameter Type	Data Type
companyName	<input type="text" value="Google"/>		query	string

[Try it out!](#) [Hide Response](#)

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:53040/api/v1/broker/getstocks?companyName=Google'
```

Request URL

```
http://localhost:53040/api/v1/broker/getstocks?companyName=Google
```

Response Body

```
[
  {
    "SectorName": "Financial",
    "StockPrice": 100
  },
  {
    "SectorName": "Artificial Intelligence",
    "StockPrice": 120
  },
  {
    "SectorName": "Robotics",
    "StockPrice": 120
  },
  {
    "SectorName": "Android",
    "StockPrice": 50
  }
]
```

Response Code

```
200
```

Response Headers

➤ Testing of Api/Broker/Buy

Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
16	Buy the stock	Enter Player name, sector , stock & quantity (Player does not have broker account & bank account)	Name = "Thathsarani" Sector = "Google" Stock = "Android" Quantity = "10"	Response code should not be 200	Response code is 500. Exception displayed there is no any broker account for the player	Pass	

POST /api/v1/broker/buy

Response Class (Status 200)
OK

Model | Example Value

```
{}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
brokerInfo	<pre>{ "PlayerName": "Thathsarani", "Sector": "Google", "Stock": "Android", "Quantity": 15, "StockPrice": 100, "Status": "string" }</pre>		body	Model Example Value <pre>{ "PlayerName": "string", "Sector": "string", "Stock": "string", "Quantity": 0, "StockPrice": 0, "Status": "string" }</pre>

Parameter content type:

[Try it out!](#) [Hide Response](#)

Curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
  "PlayerName": "Thathsarani", \
  "Sector": "Google", \
  "Stock": "Android", \
  "Quantity": 15, \
  "StockPrice": 100, \
  "Status": "string" \
}' 'http://localhost:53040/api/v1/broker/buy'
```

```
curl -X POST -H 'Content-Type: application/json' -H 'Accept: application/json' -d '{
  "PlayerName": "Thathsarani", \
  "Sector": "Google", \
  "Stock": "Android", \
  "Quantity": 15, \
  "StockPrice": 100, \
  "Status": "string" \
}' 'http://localhost:53040/api/v1/broker/buy'
```

Request URL

http://localhost:53040/api/v1/broker/buy

Response Body

```
{
  "Message": "An error has occurred.",
  "ExceptionMessage": "No broker account exists for provided player",
  "ExceptionType": "System.Exception",
  "StackTrace": "    at NextGenStockMarket.Service.BrokerService.<BuyStock>d__7.MoveNext() in D:\\Final project\\NextGenStockMar
```

Response Code

500

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 13:20:15 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "access-control-allow-origin": "*",
  "cache-control": "no-cache",
  "x-sourcefiles": "=?UTF-8?B?RDpcRmluYWwgCHJvamVjdFxoZXh0R2VuU3RvY2tNYXJrZXRCQ29kZVx0ZXh0R2VuU3RvY2tNYXJrZXRBUE1cTmV4dEd1b1N0b2Nr",
  "content-length": "2341",
  "expires": "-1"
```

Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
17	Buy the stock	Enter Player name, sector , stock & quantity (Player does not has broker account & bank account)	Name = "Thathsarani" Sector = "Google" Stock = "Android" Quantity = "15" When create the player initially he has Rs.1000	Response code should not be 200	Response code is 500. Exception displayed as player doesn't have enough money to buy	Pass	

Curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
  "PlayerName": "Thathsarani", \
  "Sector": "Google", \
  "Stock": "Android", \
  "Quantity": 15, \
  "StockPrice": 100, \
  "Status": "string" \
}' 'http://localhost:53040/api/v1/broker/buy'
```

Request URL

http://localhost:53040/api/v1/broker/buy

Response Body

```
{
  "Message": "An error has occurred.",
  "ExceptionMessage": "Player doesn't have enough money to buy",
  "ExceptionType": "System.Exception",
  "StackTrace": "    at NextGenStockMarket.Service.BrokerService.<BuyStock>d__7.MoveNext() in D:\\Final project\\NextGenStockMar
```

Response Code

500

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 13:26:29 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
```

Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
18	Buy the stock	Enter Player name, sector , stock & quantity (Player does not has broker account & bank account)	Name = "Thathsarani" Sector = "Google" Stock = "Android" Quantity = "5" When create the player initially he has Rs.1000	Response code should not be 200	Response code is 500. Exception displayed stock market is empty	Pass	

application/json

"Status": "string"

Try it out!

Hide Response

Curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
  "PlayerName": "Thathsarani", \
  "Sector": "Google", \
  "Stock": "Android", \
  "Quantity": 5, \
  "StockPrice": 100, \
  "Status": "string" \
}' 'http://localhost:53040/api/v1/broker/buy'
```

Request URL

http://localhost:53040/api/v1/broker/buy

Response Body

```
{
  "Message": "An error has occurred.",
  "ExceptionMessage": "Stock market is empty",
  "ExceptionType": "System.Exception",
  "StackTrace": "    at NextGenStockMarket.Service.BrokerService.<GetStocks>d__5.MoveNext() in D:\\Final project\\NextGenStockMa
}
```

Response Code

Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
19	Buy the stock	Run stock market api before buy. Enter Player name, sector , stock & quantity	Name = "Thathsarani" Sector = "Google" Stock = "Android" Quantity = "5" When create the player initially he has Rs.1000	-Response code should be 200 -Api/Bank/getAccount should display the Withdraw of money -Bank balance should be Rs.500	-Response code is 200. -Api/Bank/getAccount display the Withdraw of money (Image: Test 21) -Bank balance should is Rs.500 (Image: Test 22)	Pass	

Image: Test 21

playerName query string

[Try it out!](#) [Hide Response](#)

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:53040/api/v1/bank/getaccount?playerName=Thatsarani'
```

Request URL

```
http://localhost:53040/api/v1/bank/getaccount?playerName=Thatsarani
```

Response Body

```
{
  "Accounts": {
    "PlayerName": "Thatsarani",
    "Balance": 500
  },
  "BankTransactions": [
    {
      "PlayerName": "Thatsarani",
      "Turn": 1,
      "Transceiver": "Google",
      "Price": 500,
      "Status": "Withdraw"
    }
  ]
}
```

Image: Test 22

GET /api/v1/bank/bankbalance

Response Class (Status 200)
OK

Model | Example Value

```
{}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
playerName	<input type="text" value="Thatsarani"/>		query	string

[Try it out!](#) [Hide Response](#)

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:53040/api/v1/bank/bankbalance?playerName=Thatsarani'
```

Request URL

```
http://localhost:53040/api/v1/bank/bankbalance?playerName=Thatsarani
```

Response Body

```
{
  "Accounts": {
    "PlayerName": "Thatsarani",
    "Balance": 500
  },
  "BankTransactions": [
    {
      "PlayerName": "Thatsarani",
      "Turn": 1,
      "Transceiver": "Google",
      "Price": 500,
      "Status": "Withdraw"
    }
  ]
}
```

Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
20	Sell the stock	Run stock market api before sell. Enter Player name(who don't have any stock / who does not do the buy), sector , stock & quantity	Name = "Salman" Sector = "Google" Stock = "Android" Quantity = "5" When create the player initially he has Rs.1000	-Response code should not be 200	-Response code is 500.	Pass	

[Try it out!](#)
[Hide Response](#)

Curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
  "PlayerName": "Salman", \
  "Sector": "Google", \
  "Stock": "Android", \
  "Quantity": 10, \
  "StockPrice": 150, \
  "Status": "string" \
}' 'http://localhost:53040/api/v1/broker/sell'
```

Request URL

```
http://localhost:53040/api/v1/broker/sell
```

Response Body

```
{
  "Message": "An error has occurred.",
  "ExceptionMessage": "Object reference not set to an instance of an object.",
  "ExceptionType": "System.NullReferenceException",
  "StackTrace": "   at NextGenStockMarket.Service.StockMarketService.EventGenerate(Int32 CurrentTurn, Int32 Sum) in D:\\Final p"
}
```

Response Code

```
500
```

Response Headers

```
{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 13:53:57 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "access-control-allow-origin": "*",
  "cache-control": "no-cache",
  "x-sourcefiles": "=?UTF-8?B?RDpcRm1uYWwgCHJvamVjdFxoZXh0R2VuU3RvY2tNYXJrZXRCQ29kZVxoZXh0R2VuU3RvY2tNYXJrZXRBUe1cTmV4dEd1b1N0b2Nr",
  "content-length": "2857",
  "expires": "-1"
}
```


Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
21	Sell the stock	Run stock market api before sell. Enter Player name, sector , stock & quantity	Name = "Salman" Sector = "Google" Stock = "Android" Quantity = "5" When create the player initially he has Rs.1000	-Response code should be 200 -Api/Bank/getAccount should display the Withdraw of money -Bank balance should be Rs.2000	-Response code is 200. -Api/Bank/getAccount display the Withdraw of money (Image: Test 23) -Bank balance is Rs.2000 (Image: Test 24)	Pass	

Image: Test 23

```

    },
    {
      "PlayerName": "Thathsarani",
      "Turn": 2,
      "Transceiver": "Google",
      "Price": 1500,
      "Status": "Deposit"
    }
  ],
  "CurrentTurn": 1
}

```

Response Code

200

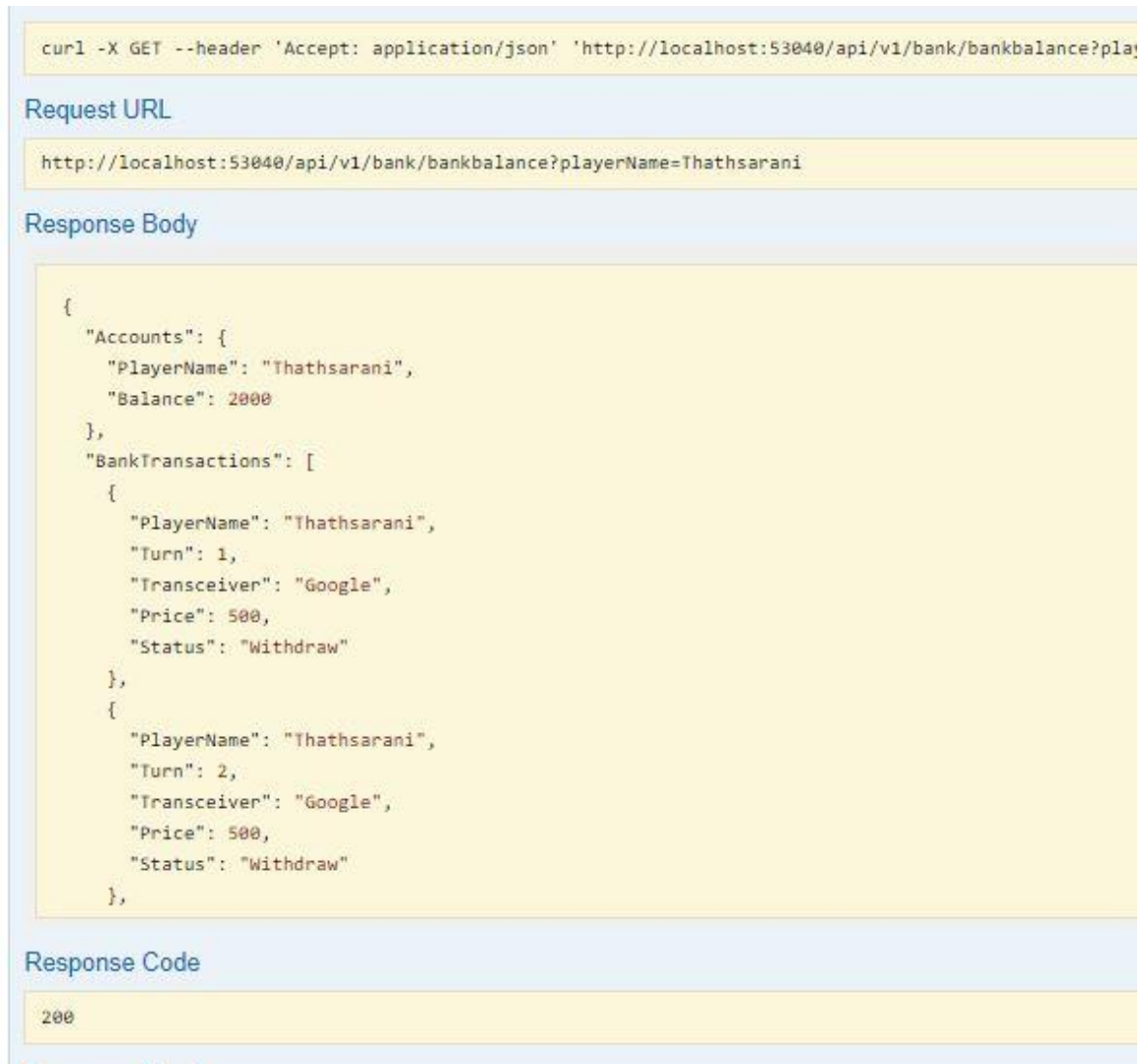
Response Headers

```

{
  "pragma": "no-cache",
  "date": "Sun, 24 Jun 2018 14:03:07 GMT",
  "server": "Microsoft-IIS/10.0",
  "x-aspnet-version": "4.0.30319",
  "x-powered-by": "ASP.NET",
  "content-type": "application/json; charset=utf-8",
  "cache-control": "no-cache",
  "x-sourcefiles": "?UTF-8?RDpcRmluYWwgCHJvamVjdFw0ZXh0R2VuU3RvY2tNYXJrZXI",
  "content-length": "854",
  "expires": "-1"
}

```

Image: Test 24



Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
22	Portfolio	Shoud display all transaction history of the particular player	Name = "Thathsarani" initially he has Rs.1000	-Response code should be 200	-Response code is 200.	Pass	

GET /api/v1/broker/portfolio

Response Class (Status 200)

OK

Model Example Value

```
{}
```

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
playerName	Thathsarani		query	string

Try it out!

[Hide Response](#)

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:53040/api/v1/broker/portfolio?playerName=Thathsarani'
```

Request URL

```
http://localhost:53040/api/v1/broker/portfolio?playerName=Thathsarani
```

Response Body

```
{
  "Accounts": {
    "PlayerName": "Thathsarani"
  },
  "BrokerInfos": [
    {
      "PlayerName": "Thathsarani",
      "Sector": "Google",
      "Stock": "Android",
      "Quantity": 5,
      "StockPrice": 100,
      "Status": "Bought"
    },
    {
      "PlayerName": "Thathsarani",
      "Sector": "Google",
      "Stock": "Android",
      "Quantity": 10,
      "StockPrice": 150,
      "Status": "Sold"
    }
  ]
}
```

Response Body

```
{
  "Status": "Bought"
},
{
  "PlayerName": "Thathsarani",
  "Sector": "Google",
  "Stock": "Android",
  "Quantity": 10,
  "StockPrice": 100,
  "Status": "Bought"
},
{
  "PlayerName": "Thathsarani",
  "Sector": "Google",
  "Stock": "Android",
  "Quantity": 10,
  "StockPrice": 150,
  "Status": "Sold"
}
]
```

Response Code

200

Response Headers

Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
23	Find the number of players connected	Should display number of players connect at the moment	Create account for 2 players	-Response code should be 200	-Response code is 200. -Display the number of players connect	Pass	

Game

Show/Hide | List Operations

GET /api/v1/game/connectedplayers

Response Class (Status 200)

OK

Model | Example Value

{}

Response Content Type application/json ▼

Try it out! [Hide Response](#)

Curl

curl -X GET --header 'Accept: application/json' 'http://localhost:53040/api/v1/game/connectedplayers'

Request URL

http://localhost:53040/api/v1/game/connectedplayers

Response Body

2

Response Code

200

Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
24	Find the status of the game	Shoud display the game status		-Response code should be 200	-Response code is 200. -Display the status of the game	Pass	

GET /api/v1/game/gamestatus

Response Class (Status 200)
OK

Model Example Value

{}

Response Content Type application/json ▼

Try it out! [Hide Response](#)

Curl

curl -X GET --header 'Accept: application/json' 'http://localhost:53040/api/v1/game/gamestatus'

Request URL

http://localhost:53040/api/v1/game/gamestatus

Response Body

"Play"

Response Code

200

Response Headers

Stock Market Api

Test ID	Objective	Description	Input Data	Expected Result	Actual Result	Status	Defect ID
25	Display the stock market information	Should display all the companies & sectors which sell there shares		-Response code should be 200	-Response code is 200. -Display all the stock market shares information	Pass	

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:53040/api/v1/market/stock'
```

Request URL

```
http://localhost:53040/api/v1/market/stock
```

Response Body

```
{
  "Sectors": [
    {
      "SectorName": "Financial",
      "StockPrice": 100
    },
    {
      "SectorName": "Artificial Intelligence",
      "StockPrice": 120
    },
    {
      "SectorName": "Robotics",
      "StockPrice": 120
    },
    {
      "SectorName": "Android",
      "StockPrice": 50
    }
  ]
},
{
```

Response Code

```
200
```

Response Headers

```
{ "Content-Type": "application/json" }
```