API Specification Doc

(*Fibonacci Web Service*)

GET request

Get the Fibonacci series for a number n:

Request:

Method	URL
GET	api/fibonacci/number/[number]

Type	Params	Values
GET	number	number

Response:

Status	Response

200	Response will be an object containing the status whether the request was a success or error, data which is the Fibonacci series in case of success and a message which is a description in case of failure/error and null on success.
	
	{
	  "status": "success",
	  "data": "0 1 1 2 3",
	  "message": "null",
	  }

400	On entering a negative value:
	
	{
	  "status": "error",
	  "data": "",
	  "message": "enter a number greater than 0",
	  }

400	Entering a parameter value which is not a number:
	
	{
	  "status": "error",
	  "data": "",
	  "message": "please enter a valid value",
	  }

400	Leaving the parameter null: Cannot GET /api/Fibonacci/number/
500	Internal Server Error

- All the possible responses are listed under 'Responses' for the method. Only one of them is issued per request server.
- All responses are in JSON format.
- The request parameter is mandatory to generate a Fibonacci sequence and must be a number.

Status Codes:

All status codes are standard HTTP status codes. The below ones are used in this API.

200 - Success
400 - Error occurred in client's part – Bad Request
500 - Error occurred in server's part – Internal Server Error

Limitations:

When the numbers in the Fibonacci series exceed the range of LONG data type, the server throws error that 'Fibonacci series going out of range'
It works till Fibonacci series of number n, maximum value of n is 93.

Deploy and Build Instructions:

Clone Project
Import Project in Eclipse
Install Tomcat v6.0
Right click on project and Run as 'Run on Server'
Select 'Tomcat v6.0 Server at localhost'
Open Browser and enter URL
"http://localhost:8080/RESTfulService/api/fibonacci/number/[number]"