Items	Rest Sharp	Rest Assured
	RestClient restClient = new	RestAssured.baseURI =
	RestClient("https://restapi.demoqa.com/u	"https://restapi.demoqa.com/utilities/weather/city";
	tilities/weather/city/");	RequestSpecification httpRequest =
	RestRequest restRequest = new	RequestSpecification request = RestAssured.given();
Get	RestRequest("Guntur",Method.GET);	Response response =
Request	IRestResponse restResponse =	request.request(METHOD.GET,"/hyderabad");
Response	string response = restResponse.Content;	string response = response.asString());
	int StatusCode =	
Status Code	(int)restResponse.StatusCode;	<pre>int statusCode = response.getStatusCode();</pre>
Status	string statusDescription =	
Description	restResponse.StatusDescription;	String statusCode = response.getStatusLine();
	JObject jObjectbody = new JObject();	Map <string, string=""> params = new HashMap<string, string="">(); params.put("tag", "test"); params.put("tag2", "test2"); JSONObject jsonObj = new JSONObject(params);</string,></string,>
AddParame ter to request	jObjectbody.Add("Password", "Password@123"); jObjectbody.Add("Email", "abc@hotmail.com"); // Add the Json to the body of the request restRequest.AddParameter("application/js on",jObjectbody,ParameterType.RequestB ody);	<pre>// JSONObject is a class that represents a Simple JSON. // We can add Key - Value pairs using the put method JSONObject requestParams = new JSONObject(); requestParams.put("FirstName", "Virender"); requestParams.put("LastName", "Singh"); requestParams.put("UserName", "simpleuser001"); // Add the Json to the body of the request request.body(requestParams.toJSONString());</pre>
Path parameter	<pre>var client = new RestClient ("URLName"); var request = new RestRequest("Resource/{id}", Method.POST); request.AddParameter("name", "Yourvalue"); request.AddUrlSegment("id", 123);</pre>	http://localhost:/api/users/{userid} Response response = given() .baseUri("https://localhost") .basePath("api/users") .pathParam("userid", 2)
query parameter BasePort BasePath	request.AddParameter("foo", "bar", RequestType.QueryString);	http://localhost:8080/users?page=1&limit=50 Response response = Request.queryParam("page","1")

		rootPath - set the default root path of the response
		body so don't need to write entire path
		expect().
		body("x.y.firstName", equalsTo("some")).
		' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
		body("x.y.lastName", equalsTo()).
		body("x.y.age", equalsTo()).
		body("x.y.gender", equalsTo()).
		when().
		get();
		you can use a root and do:
		RestAssured.rootPath = "x.y";
		expect().
		body("firstName", equalsTo()).
		body("lastName", equalsTo()).
		body("age", equalsTo()).
		body("gender", equalsTo()).
		when().
rootPath		get();
clear the		
parameters		
after the		
specificatio		
n is created	request.Parameters.Clear();	RestAssured.reset();
redirect	von norden – novy MyClass (IntData – 1	RestAssured.redirect(true);
	var param = new MyClass { IntData = 1,	
	StringData = "test123" };	
	request.AddJsonBody(param);	
	req.AddParameter("text/xml", body,	
AddJsonBo	ParameterType.RequestBody);	// Add the Json to the body of the request
	req.AddParameter("application/json", body, ParameterType.RequestBody);	request.body(requestParams.toJSONString());
dy	//bypass ssl validation check by using	request.body(requestrarams.toj3ON3tring()),
	RestClient object	
	var restClient = new RestClient(baseUrl);	
	restClient.RemoteCertificateValidationCall	
	back = (sender, certificate, chain,	
	sslPolicyErrors) => true; //bypass sel validation shock glabally for	
	//bypass ssl validation check globally for	
	whole application.	
	ServicePointManager.ServerCertificateVali	
LITTEC	dationCallback += (sender, certificate,	RestAssured.useRelaxedHTTPSValidation(); //disable
HTTPS	chain, sslPolicyErrors) => true;	usual https verification
- 1.1	wo wo cock Andello s de colli Anno colli	given().header("MyHeader", "Something")
add	request.AddHeader("Accept",	given().headers("MyHeader", "Something",
Headers	"application/json");	"MyOtherHeader", "SomethingElse")

		Response resp1 = given().header("Content-
set content	request.AddHeader("Content-Type",	Type","application/json")
type	"application/json; charset=utf-8");	RestAssured.given().contentType("application/json")
		ResponseBody body = response.getBody();
Get Body	string Body = restResponse.Content;	ResponseBody body = response.body().asString();
	Dictionary <string, string=""> HeadersList =</string,>	
	new Dictionary <string, string="">();</string,>	
	foreach (var item in	
	restResponse.Headers)	
	{	
	string[]	
	KeyPairs=item.ToString().Split('=');	
		Headers allHeaders = response.headers();
	HeadersList.Add(KeyPairs[0],KeyPairs[1]);	
	}	// Iterate over all the Headers
		for(Header header : allHeaders)
		{
	Assert. Are Equal ("application/json", Header	System.out.println("Key: " + header.getName() + "
	sList["Content-Type"],"Content-type not	Value: " + header.getValue());
Headers	matching");	}
	// Parsing JSON content into element-	
	node JObject	
	var jObject =	
	JObject.Parse(restResponse.Content);	
	//Extracting Node element using	
	Getvalue method	// First get the JsonPath object instance from the
	string	Response interface
	city=jObject.GetValue("City").ToString();	JsonPath jsonPathEvaluator = response.jsonPath();
	// Let us print the city variable to see	
	what we got	// Let us print the city variable to see what we got
	Console.WriteLine("City received from	System.out.println("City received from Response " +
	Response " + city);	jsonPathEvaluator.get("City"));

		import org.json.JSONArray;
		import org.json.JSONObject;
		JSONObject obj = new JSONObject(json);
		String pageName =
		obj.getJSONObject("pageInfo").getString("pageName")
		;
		System.out.println(pageName);
	JObject jobj = JObject.Parse(json);	
	JArray a = (JArray)jobj["d"];	JSONArray arr = obj.getJSONArray("posts");
	IList <person> person =</person>	for (int i = 0; i < arr.length(); i++) {
	a.ToObject <ilist<person>>();</ilist<person>	String post_id =
	Console.WriteLine(person[0].Name);	arr.getJSONObject(i).getString("post_id");
Parsing	// John Smith	System.out.println(post_id);
Output	Console.WriteLin	}
	RestClient("https://restapi.demoqa.com/c	
	ustomer");	
	astomer /,	
	//Creating Json object	
	JObject jObjectbody = new	
	JObject();	
	jObjectbody.Add("FirstName",	 RestAssured.baseURI
	"Narayn");	="https://restapi.demoqa.com/customer";
	jObjectbody.Add("LastName",	RequestSpecification request = RestAssured.given();
	"Kaluri");	nequests pecinication request. Nest, issured.given(j)
	jObjectbody.Add("UserName",	JSONObject requestParams = new JSONObject();
	"NaraynKasdfsdfluri");	requestParams.put("FirstName", "Virender"); // Cast
	jObjectbody.Add("Password",	requestParams.put("LastName", "Singh");
	l"Passwovasdfsdaf23"):	, , , , , , , , , , , , , , , , , , , ,
	"Passwovasdfsdaf23"); iObiectbodv.Add("Email".	requestParams.put("UserName",
	jObjectbody.Add("Email",	requestParams.put("UserName", "sdimpleuser2dd2011");
		requestParams.put("UserName", "sdimpleuser2dd2011"); requestParams.put("Password", "password1");
	jObjectbody.Add("Email", "abcdafsad@hotmail.com");	requestParams.put("UserName", "sdimpleuser2dd2011"); requestParams.put("Password", "password1"); requestParams.put("Email",
	jObjectbody.Add("Email", "abcdafsad@hotmail.com"); RestRequest restRequest = new	requestParams.put("UserName", "sdimpleuser2dd2011"); requestParams.put("Password", "password1");
	jObjectbody.Add("Email", "abcdafsad@hotmail.com");	requestParams.put("UserName", "sdimpleuser2dd2011"); requestParams.put("Password", "password1"); requestParams.put("Email", "sample2ee26d9@gmail.com");
	jObjectbody.Add("Email", "abcdafsad@hotmail.com"); RestRequest restRequest = new RestRequest("/register",Method.POST);	requestParams.put("UserName", "sdimpleuser2dd2011"); requestParams.put("Password", "password1"); requestParams.put("Email", "sample2ee26d9@gmail.com"); request.body(requestParams.toJSONString());
	<pre>jObjectbody.Add("Email", "abcdafsad@hotmail.com"); RestRequest restRequest = new RestRequest("/register", Method.POST); //Adding Json body as parameter to</pre>	requestParams.put("UserName", "sdimpleuser2dd2011"); requestParams.put("Password", "password1"); requestParams.put("Email", "sample2ee26d9@gmail.com");
	jObjectbody.Add("Email", "abcdafsad@hotmail.com"); RestRequest restRequest = new RestRequest("/register",Method.POST);	requestParams.put("UserName", "sdimpleuser2dd2011"); requestParams.put("Password", "password1"); requestParams.put("Email", "sample2ee26d9@gmail.com"); request.body(requestParams.toJSONString()); Response response = request.post("/register");
	jObjectbody.Add("Email", "abcdafsad@hotmail.com"); RestRequest restRequest = new RestRequest("/register", Method.POST); //Adding Json body as parameter to the post request	requestParams.put("UserName", "sdimpleuser2dd2011"); requestParams.put("Password", "password1"); requestParams.put("Email", "sample2ee26d9@gmail.com"); request.body(requestParams.toJSONString()); Response response = request.post("/register"); int statusCode = response.getStatusCode();
	<pre>jObjectbody.Add("Email", "abcdafsad@hotmail.com"); RestRequest restRequest = new RestRequest("/register", Method.POST); //Adding Json body as parameter to the post request restRequest.AddParameter("application/js</pre>	requestParams.put("UserName", "sdimpleuser2dd2011"); requestParams.put("Password", "password1"); requestParams.put("Email", "sample2ee26d9@gmail.com"); request.body(requestParams.toJSONString()); Response response = request.post("/register"); int statusCode = response.getStatusCode(); System.out.println("The status code recieved: " +
	<pre>jObjectbody.Add("Email", "abcdafsad@hotmail.com"); RestRequest restRequest = new RestRequest("/register" ,Method.POST); //Adding Json body as parameter to the post request restRequest.AddParameter("application/js on",jObjectbody,ParameterType.RequestB</pre>	requestParams.put("UserName", "sdimpleuser2dd2011"); requestParams.put("Password", "password1"); requestParams.put("Email", "sample2ee26d9@gmail.com"); request.body(requestParams.toJSONString()); Response response = request.post("/register"); int statusCode = response.getStatusCode(); System.out.println("The status code recieved: " +
Post	<pre>jObjectbody.Add("Email", "abcdafsad@hotmail.com"); RestRequest restRequest = new RestRequest("/register", Method.POST); //Adding Json body as parameter to the post request restRequest.AddParameter("application/js</pre>	requestParams.put("UserName", "sdimpleuser2dd2011"); requestParams.put("Password", "password1"); requestParams.put("Email", "sample2ee26d9@gmail.com"); request.body(requestParams.toJSONString()); Response response = request.post("/register"); int statusCode = response.getStatusCode(); System.out.println("The status code recieved: " +

	var arr =	
	var arr =	
	JsonConvert.DeserializeObject <mydetail>(</mydetail>	
	response.Content);	
	Console.WriteLine(myDetails.FirstName+"	
	,	RegistrationFailureResponse responseBody =
	" + myDetails.LastName);	body.as(RegistrationFailureResponse.class);
		Assert.assertEquals("User already exists",
		responseBody.FaultId);
	public class MyDetail	Assert.assertEquals("FAULT_USER_ALREADY_EXISTS",
	s	responseBody.fault);
	nublic string FirstName (responsebody.radity,
	public string FirstName {	
	get; set;}	
	public string LastName {	public class RegistrationFailureResponse {
Deserialize	get;	String FaultId;
JSON	set;}	String fault;
Response	}]}
	restClient.Authenticator = new	
	HttpBasicAuthenticator("ToolsQA",	
	"TestPassword");	
	··	
	var client = new	
	RestClient("http://example.com");	
	client.Authenticator = new	
	SimpleAuthenticator("username", "foo",	
	"password", "bar");	
Basic	var request = new	
Authorizati	RestRequest("resource", Method.GET);	RestAssured.authentication = basic("username",
on	client.Execute(request);	"password");
		RestAssured.authentication =
Preemptive		preemptive().basic("username", "password");
Authenticat		send the credentials withut waiting for an
ion		unauthorized response
		given()auth()
		.digest("username", "password")
Digost		.when
Digest		
Authenticat .		sends the password in encoded form avoids cleartext
ion		PWD

var client = new RestClient("http://example.com/myapi/oa uth/token"); RestRequest request = new RestRequest() { Method = Method.POST }; request.AddHeader("content-type", "application/x-www-form-urlencoded"); request.AddHeader("Accept", "application/json"); request.AddParameter("grant_type", "client_credentials"); request.AddParameter("client_id", "clientapp"); request.AddParameter("client_secret", "secret"); var response = client.Execute(request); var token = JsonConvert.DeserializeObject<Dictionary RequestSpecification request = <string,object>>(response)["access_token RestAssured.given().auth() "].ToString(); .oauth2(accessToken) return token.Length > 0 ? token : null; OAuth2 .when()

	Annocament doe - new Annocament(),	
	doc.Load("d:\\product.xml");	
	XmlNodeList nodes =	
	doc.DocumentElement.SelectNodes("/Sto	
	re/Product");	
	string product_id = "",	
	product_name = "", product_price="";	
	foreach (XmlNode node in nodes)	<custmer></custmer>
	{	<id>1212</id>
	product_id =	<firstname>john</firstname>
	node.SelectSingleNode("Product_id").Inne	<lastname>Smith</lastname>
	rText;	
	product_name =	
	node.SelectSingleNode("Product_name").I	import io.restassured.path.xml.XmlPath;
	nnerText;	String xml =
	product_price =	get("http://parabank.parasoft.com/parabank/services
	node.SelectSingleNode("Product_price").I	/bank/customers/12212/").andReturn().asString();
	nnerText;	// Retrieve the values to be checked from the XML as
	MessageBox.Show(product_id + "	a String
	" + product_name + " " + product_price);	XmlPath xmlPath = new
	}	XmlPath(xml).setRoot("customer");
		String cusID = XmlPath.from(xml).get("customer.id");
		String firstName = xmlPath.getString("firstName");
	XmlDocument _doc = new	String lastName = xmlPath.getString("lastName");
	XmlDocument();	
	_doc.LoadXml(xmlText);	
	XmlNodeList _fnames =	String stringResponse = validation.asString();
	_doc.GetElementsByTagName("Product_n	XmlPath xmlPath = new XmlPath(stringResponse);
Parse XML	ame");	String status = xmlPath.get("ncresponse.@STATUS");
		Response res =given ().param ("query", "Churchgate
		Station")
		.param ("key", "Xyz")
		.when()
		.get ("/maps/api/place/textsearch/xml")
		.then()
Request		.contentType(ContentType.XML)
XML	request.RequestFormat =	.extract().response();
response	DataFormat.Xml;	System.out.println (res.asString ());

```
String pageName = JsonPath.read(json,
                                                         "$.pageInfo.pageName");
                                                             System.out.println(pageName);
             string jsonPath = "$..Products[?(@.Price
             >= 50)].Name";
                                                             Integer posts = JsonPath.read(json,
                                                         "$.posts.length()");
             JObject jObject =
             JObject.Parse(restResponse.Content);
                                                             for(int i=0; i < posts; i++) {
             IEnumerable<JToken> parseVal =
                                                                String post_id = JsonPath.read(json, "$.posts[" +
Parse Json
             jObject.SelectTokens(jsonPath);
                                                         i + "].post id");
by
JSONpath
             string jsonValue = string.Join(",",parseVal);
                                                                System.out.println(post_id); }
                 static void Main(string[] args)
                                                         public class Car {
                    var client = new
                                                         String make;
             RestClient("http://192.168.1.123:8800/");
                                                         String model;
                    var request = new
                                                         int year;
             RestRequest("/api/v1/apps/",
             Method.POST) { RequestFormat =
                                                         public Car() {
             DataFormat.Json };
                    request.AddBody(new
             FromBodyData() { Counter = 10 });
                                                         public Car(String make, String model, int year) {
                    var response =
                                                          this.make = make;
             client.Execute(request);
                                                          this.model = model;
             if (response.StatusCode ==
                                                          this.year = year;
             HttpStatusCode.Created)
                      Console.WriteLine("'{0}'
                                                         public String getMake() {
             deployment started remotely on '{1}'.",
                                                          return this.make;
             appName, hostName);
                    }
                                                         public void setMake(String make) {
                  }
                                                          this.make = make;
                  public class FromBodyData
                                                         public String toString() {
PUT
                                                          return "My car is a " + this.year + " " + this.make + " "
                    public int Counter { get; set; }
request +
                                                         + this.model;
               }
Serializatio
                                                         }
```

```
var client = new
            RestClient("https://api.xing.com")
                     Authenticator =
            OAuth1Authenticator.ForProtectedResour
            ce(<ConsumerKey>,<ConsumerSecret>,<A
            ccessToken>,<AccessTokenSecret>)
             var request = new
            RestRequest(XingEndpoints.UsersMeCont
                                                      given().accept(ContentType.JSON)
            acts);
            request.Method = Method.GET;
                                                       .auth()
            request.AddQueryParameter("limit", "0");
                                                       .oauth(consumerKey, consumerSecret, accessToken,
            // Same with request.AddParameter
                                                      tokenSecret)
OAuth1
             var response = client.Execute(request);
            RestClient("https://api.us.onelogin.com/a
            uth/oauth2/token");
                   var request = new
            RestRequest(Method.POST);
                   request.AddHeader("cache-
            control", "no-cache");
                   request.AddHeader("content-type",
             "application/json");
                   request.RequestFormat =
            DataFormat.Json;
            request.AddHeader("authorization",
             "client_id:yourClientID,
            client secret:yourClientSecret");
            request.AddParameter("application/json",
             "{\n\"grant type\":\"client credentials\"\
            n}", ParameterType.RequestBody);
                   IRestResponse response =
            client.Execute(request);
                   RootObject returnData =
            deserial.Deserialize<RootObject>(respons
            e);
                                                      RequestSpecification request =
Token
                   if (returnData.data[0].access_token | RestAssured.given().auth()
            != null)
based
                                                       .oauth(consumerkey,consumerSecret,accessToke
Authoziatio
                                                      n,tokenSecret)
                     access =
                                                       .when()
```

	HttpBasicAuthenticator	
	lAuthenticator	
	NtlmAuthenticator	Basic Authentication
	OAuth1Authenticator	Digest Authentication
Authenticat	OAuth2Authenticator	Form Authentication
ors	SimpleAuthenticator	OAuth 1 and OAuth 2