

Items	Rest Sharp	Rest Assured
Get Request	<pre> RestClient restClient = new RestClient("https://restapi.demoqa.com/u tilities/weather/city/"); RestRequest restRequest = new RestRequest("Guntur",Method.GET); IRestResponse restResponse = restClient.Execute(restRequest); </pre>	<pre> RestAssured.baseURI = "https://restapi.demoqa.com/utilities/weather/city"; RequestSpecification httpRequest = RestAssured.given(); Response response = httpRequest.get("/Hyderabad"); RequestSpecification request = RestAssured.given(); Response response = request.request(METHOD.GET,"/hyderabad"); </pre>
Response	<pre> string response = restResponse.Content; </pre>	<pre> string response = response.asString(); </pre>
Status Code	<pre> int StatusCode = (int)restResponse.StatusCode; </pre>	<pre> int statusCode = response.getStatusCode(); </pre>
Status Description	<pre> string statusDescription = restResponse.StatusDescription; </pre>	<pre> String statusCode = response.getStatusLine(); </pre>
AddParameter to request	<pre> JSONObject jobjectbody = new JSONObject(); jobjectbody.Add("FirstName", "Narayn"); jobjectbody.Add("LastName", "Kaluri"); jobjectbody.Add("UserName", "NaraynKaluri"); 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>	<pre> Map<String, String> params = new HashMap<String, String>(); params.put("tag", "test"); params.put("tag2", "test2"); JSONObject jsonObj = new JSONObject(params); ----- // 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>	<pre> http://localhost:/api/users/{userid} Response response = given() .baseUri("https://localhost") .basePath("api/users") .pathParam("userid", 2) </pre>
query parameter	<pre> request.AddParameter("foo", "bar", RequestType.QueryString); </pre>	<pre> http://localhost:8080/users?page=1&limit=50 Response response = Request.queryParam("page","1") .queryParam("limit", "50") .get("http://localhost:8080/users"); </pre>
BasePort		<pre> RestAssured.port = 80; </pre>
BasePath		<pre> http://localhost:/api/users/ Response response = given() .baseUri("https://localhost") .basePath("api/users") </pre>

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

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

<p>Parsing Output</p>	<pre> JObject jobj = JObject.Parse(json); JArray a = (JArray)jobj["d"]; IList<Person> person = a.ToObject<IList<Person>>(); Console.WriteLine(person[0].Name); // John Smith Console.WriteLine </pre>	<pre> import org.json.JSONArray; import org.json.JSONObject; JSONObject obj = new JSONObject(json); String pageName = obj.getJSONObject("pageInfo").getString("pageName") ; System.out.println(pageName); JSONArray arr = obj.getJSONArray("posts"); for (int i = 0; i < arr.length(); i++) { String post_id = arr.getJSONObject(i).getString("post_id"); System.out.println(post_id); } </pre>
<p>Post request</p>	<pre> RestClient restClient = new RestClient("https://restapi.demoqa.com/c ustomer"); //Creating Json object JObject jobjectbody = new JObject(); jobjectbody.Add("FirstName", "Narayn"); jobjectbody.Add("LastName", "Kaluri"); jobjectbody.Add("UserName", "NaraynKasdfsdfuri"); jobjectbody.Add("Password", "Passwovasdfsdf23"); 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 ody); </pre>	<pre> RestAssured.baseURI ="https://restapi.demoqa.com/customer"; RequestSpecification request = RestAssured.given(); JSONObject requestParams = new JSONObject(); requestParams.put("FirstName", "Virender"); // Cast requestParams.put("LastName", "Singh"); 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: " + statusCode); System.out.println("Response body: " + response.body().asString()); </pre>

Deserialize JSON Response	<pre>var arr = JsonConvert.DeserializeObject<MyDetail>(response.Content); Console.WriteLine(myDetails.FirstName+" ', " + myDetails.LastName);</pre>	<pre>RegistrationFailureResponse responseBody = body.as(RegistrationFailureResponse.class); Assert.assertEquals("User already exists", responseBody.FaultId); Assert.assertEquals("FAULT_USER_ALREADY_EXISTS", responseBody.fault);</pre>
	<pre>public class MyDetail { public string FirstName { get; set;} public string LastName { get; set;} }</pre>	<pre>public class RegistrationFailureResponse { String FaultId; String fault; }</pre>
Basic Authorizati on	<pre>restClient.Authenticator = new HttpBasicAuthenticator("ToolsQA", "TestPassword");</pre> <hr/> <pre>var client = new RestClient("http://example.com"); client.Authenticator = new SimpleAuthenticator("username", "foo", "password", "bar");</pre> <pre>var request = new RestRequest("resource", Method.GET); client.Execute(request);</pre>	<pre>RestAssured.authentication = basic("username", "password");</pre>
Preemptive Authenticat ion		<pre>RestAssured.authentication = preemptive().basic("username", "password");</pre> <p>send the credentials without waiting for an unauthorized response</p>
Digest Authenticat ion		<pre>given().auth() .digest("username", "password") .when</pre> <p>sends the password in encoded form avoids cleartext PWD</p>

OAuth2	<pre> var client = new RestClient("http://example.com/myapi/oauth/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", "client-app"); request.AddParameter("client_secret", "secret"); var response = client.Execute(request); var token = JsonConvert.DeserializeObject<Dictionary <string,object>>(response)["access_token "].ToString(); return token.Length > 0 ? token : null; </pre>	<pre> RequestSpecification request = RestAssured.given().auth() .oauth2(accessToken) .when() </pre>
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Parse XML	<pre> XmlDocument doc = new XmlDocument(); doc.Load("d:\\product.xml"); XmlNodeList nodes = doc.DocumentElement.SelectNodes("/Store/Product"); string product_id = "", product_name = "", product_price=""; foreach (XmlNode node in nodes) { product_id = node.SelectSingleNode("Product_id").InnerText; product_name = node.SelectSingleNode("Product_name").InnerText; product_price = node.SelectSingleNode("Product_price").InnerText; MessageBox.Show(product_id + " " + product_name + " " + product_price); } XmlDocument _doc = new XmlDocument(); _doc.LoadXml(xmlText); XmlNodeList _fnames = _doc.GetElementsByTagName("Product_n </pre>	<pre> <customer> <id>1212</id> <firstName>john</firstName> <lastName>Smith</lastName> </customer> import io.restassured.path.xml.XmlPath; String xml = get("http://parabank.parasoft.com/parabank/services /bank/customers/12212/").andReturn().asString(); // Retrieve the values to be checked from the XML as a String XmlPath xmlPath = new XmlPath(xml).setRoot("customer"); String cusID = XmlPath.from(xml).get("customer.id"); String firstName = xmlPath.getString("firstName"); String lastName = xmlPath.getString("lastName"); ----- String stringResponse = validation.asString(); XmlPath xmlPath = new XmlPath(stringResponse); String status = xmlPath.get("ncresponse.@STATUS"); </pre>
Request XML response	<pre> request.RequestFormat = DataFormat.Xml; </pre>	<pre> Response res =given ().param ("query", "Churchgate Station") .param ("key", "Xyz") .when() .get ("/maps/api/place/textsearch/xml") .then() .contentType(ContentType.XML) .extract().response(); System.out.println (res.asString ()); </pre>

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

OAuth1	<pre> var client = new RestClient("https://api.xing.com") { Authenticator = OAuth1Authenticator.ForProtectedResource(<ConsumerKey>,<ConsumerSecret>,<AccessToken>,<AccessTokenSecret>) }; var request = new RestRequest(XingEndpoints.UsersMeContacts); request.Method = Method.GET; request.AddQueryParameter("limit", "0"); // Same with request.AddParameter var response = client.Execute(request); </pre>	<pre> given().accept(ContentType.JSON) .auth() .oauth(consumerKey, consumerSecret, accessToken, tokenSecret) </pre>
Token based Authorization	<pre> var client = new RestClient("https://api.us.onelogin.com/auth/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>(response); if (returnData.data[0].access_token != null) { </pre>	<pre> RequestSpecification request = RestAssured.given().auth() .oauth(consumerkey,consumerSecret,accessToken,tokenSecret) .when() </pre>

Authenticators	HttpBasicAuthenticator	Basic Authentication
	IAuthenticator	Digest Authentication
	NtlmAuthenticator	Form Authentication
	OAuth1Authenticator	OAuth 1 and OAuth 2
	OAuth2Authenticator	
	SimpleAuthenticator	