

PRAB Benchmark - Structural Characteristics of the REST APIs

API Name	Reference	Availability	Authentication	Pricing	Limits	Number of Routes	Number of Query Parameters	GET	POST	PUT	DELETE	PATCH	OpenAPI URL	Chart Number	
Amadeus Hotel   [6][17][19]	<a href="https://developers.amadeus.com/self-service/category/hotels">https://developers.amadeus.com/self-service/category/hotels</a>	ONLINE	KEY	OPT	YES	48	47	37	13	0	1	0	<a href="https://www.postman.com/amadeus4dev/amadeus-for-developers-s-public-workspace/collection/kquqll/amadeus-for-developers">https://www.postman.com/amadeus4dev/amadeus-for-developers-s-public-workspace/collection/kquqll/amadeus-for-developers</a>	1	
An API of Ice and Fire   [16]	<a href="https://anapioficeandfire.com">https://anapioficeandfire.com</a>	ONLINE	NO	NO	YES	3	17	3	0	0	0	0	<a href="https://www.postman.com/postman/postman-team-collections/documentation/4dugaxo/game-of-thrones">https://www.postman.com/postman/postman-team-collections/documentation/4dugaxo/game-of-thrones</a>	2	
Baldontlie   [16]	<a href="https://www.baldontlie.io">https://www.baldontlie.io</a>	ONLINE	KEY	OPT	YES	10	5	10	0	0	0	0	<a href="https://www.postman.com/grandios/public/collection/1cm3za0/baldontlie">https://www.postman.com/grandios/public/collection/1cm3za0/baldontlie</a>	3	
Bing Maps   [11]	<a href="https://www.bingmapsportal.com">https://www.bingmapsportal.com</a>	ONLINE	KEY	OPT	YES	NO OPENAPI OR POSTMAN		/	/	/	/	/	/	/	
Bing Web Search   [10]	<a href="https://www.microsoft.com/en-us/bing/apis/bing-web-search-api">https://www.microsoft.com/en-us/bing/apis/bing-web-search-api</a>	ONLINE	KEY	OPT	YES	1	13	1	0	0	0	0	<a href="https://github.com/microsoft/bing-search-specs/blob/master/WebSearch/stable/v1.0/WebSearch.json">https://github.com/microsoft/bing-search-specs/blob/master/WebSearch/stable/v1.0/WebSearch.json</a>	4	
BitBucket   [4]	<a href="https://developer.atlassian.com/cloud/bitbucket/rest">https://developer.atlassian.com/cloud/bitbucket/rest</a>	ONLINE	KEY	ATSSION	OPT	YES	185	173	171	48	47	53	0	<a href="https://dac-static.atlassian.com/docs/bitbucket/swagger.v3.json">https://dac-static.atlassian.com/docs/bitbucket/swagger.v3.json</a>	5
Bored   [16]	<a href="https://www.boredapi.com">https://www.boredapi.com</a>	DOES NOT EXIST ANYMORE	/	/	/	/	/	/	/	/	/	/	/	/	
Catwatch   [2][9][11][12][15][25]	<a href="https://github.com/zalando-incubator/catwatch">https://github.com/zalando-incubator/catwatch</a>	LOCAL	NO	NO	NO	6	8	6	0	0	0	0	<a href="https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/catwatch.json">https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/catwatch.json</a>	6	
CheapShark   [16]	<a href="https://apidocs.cheapshark.com">https://apidocs.cheapshark.com</a>	ONLINE	NO	NO	YES	4	6	4	0	0	0	0	<a href="https://apidocs.cheapshark.com">https://apidocs.cheapshark.com</a>	7	
CoinCap   [16]	<a href="https://docs.coincap.io">https://docs.coincap.io</a>	ONLINE	NO	NO	YES	10	4	10	0	0	0	0	<a href="https://docs.coincap.io/">https://docs.coincap.io/</a>	8	
CWA Verification Server   [3][11][12]	<a href="https://github.com/corona-warn-api/cwa-verification-server">https://github.com/corona-warn-api/cwa-verification-server</a>	LOCAL	NO	NO	NO	5	0	0	5	0	0	0	<a href="https://github.com/corona-warn-api/cwa-verification-server/blob/master/api-docs.json">https://github.com/corona-warn-api/cwa-verification-server/blob/master/api-docs.json</a>	9	
Cyclotron   [11]	<a href="https://github.com/ExpediaGroup/cyclotron">https://github.com/ExpediaGroup/cyclotron</a>	LOCAL	NO	NO	NO	40	7	29	14	4	3	0	<a href="https://github.com/ExpediaGroup/cyclotron/blob/master/cyclotron-svc/swagger.json">https://github.com/ExpediaGroup/cyclotron/blob/master/cyclotron-svc/swagger.json</a>	10	
Datamuse   [16]	<a href="https://www.datamuse.com/api">https://www.datamuse.com/api</a>	ONLINE	NO	NO	NO	2	25	2	0	0	0	0	NO OPENAPI OR POSTMAN		
Demo Blog Server   [28]	<a href="https://github.com/vheskeybaoz/RESTful-blog-server-demo">https://github.com/vheskeybaoz/RESTful-blog-server-demo</a>	NOT IN ENGLISH	/	/	/	/	/	/	/	/	/	/	/	/	
DHL Shipment Tracking   [6]	<a href="https://developer.dhl.com/api-reference/shipment-tracking">https://developer.dhl.com/api-reference/shipment-tracking</a>	ONLINE	KEY	NO	NO	1	8	1	0	0	0	0	<a href="https://developer.dhl.com/api-reference/shipment-tracking#downloads-section">https://developer.dhl.com/api-reference/shipment-tracking#downloads-section</a>	12	
DigDag   [12]	<a href="https://docs.digdag.io">https://docs.digdag.io</a>	LOCAL	NO	NO	NO	35	14	29	5	3	2	0	<a href="https://github.com/treasure-data/digdag/blob/master/digdag-docs/src/extra/api/swagger.yaml">https://github.com/treasure-data/digdag/blob/master/digdag-docs/src/extra/api/swagger.yaml</a>	13	
Disease SH   [11]	<a href="https://disease.sh">https://disease.sh</a>	BOTH	NO	NO	NO	41	7	41	0	0	0	0	<a href="https://disease.sh/apidocs/swagger_v3.json">https://disease.sh/apidocs/swagger_v3.json</a>	14	
EnviroCar   [12]	<a href="https://envirocar.github.io/enviroCar-server/api">https://envirocar.github.io/enviroCar-server/api</a>	BOTH	KEY	NO	NO	53	40	52	15	4	8	0	<a href="https://envirocar.org/api/stable/api-docs.json">https://envirocar.org/api/stable/api-docs.json</a>	15	
ERC-20 RESTful Service   [3]	<a href="https://github.com/web3labs/erc20-rest-service">https://github.com/web3labs/erc20-rest-service</a>	LOCAL	NO	NO	NO	13	0	8	5	0	0	0	<a href="https://github.com/web3labs/erc20-rest-service/blob/master/images/full-swagger-ui.png">https://github.com/web3labs/erc20-rest-service/blob/master/images/full-swagger-ui.png</a>	16	
eShopOnContainers   [21]	<a href="https://github.com/dotnet-architecture/eShopOnContainers">https://github.com/dotnet-architecture/eShopOnContainers</a>	DEPRECATED	/	/	/	/	/	/	/	/	/	/	/	/	
FDIC   [6][13]	<a href="https://github.com/ContinuityControl/fdic">https://github.com/ContinuityControl/fdic</a>	LOCAL	NO	NO	NO	8	15	8	0	0	0	0	<a href="https://www.postman.com/api-evangelist/federal-deposit-insurance-corporation-fdic/collection/dd8s3a/fdic-bank-data-api-beta">https://www.postman.com/api-evangelist/federal-deposit-insurance-corporation-fdic/collection/dd8s3a/fdic-bank-data-api-beta</a>	17	
Features Service   [2][3][4][7][9][11][12][15][16][20][25]	<a href="https://github.com/JavierMF/features-service">https://github.com/JavierMF/features-service</a>	LOCAL	NO	NO	NO	11	0	6	6	1	5	0	<a href="https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/features-service.json">https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/features-service.json</a>	18	
ForTe   [10]	<a href="https://restdocs.forte.net">https://restdocs.forte.net</a>	ONLINE	KEY	NO	YES	POSTMAN TRANSLATION DOES NOT WORK		/	/	/	/	/	<a href="https://restdocs.forte.net/">https://restdocs.forte.net/</a>	/	
Foursquare   [6][8][10]	<a href="https://docs.foursquare.com/developers">https://docs.foursquare.com/developers</a>	ONLINE	KEY	OPT	YES	21	78	15	6	0	0	0	<a href="https://www.postman.com/foursquare-places-api/foursquare-s-public-workspace/collection/qjus7hq/foursquare-places-api">https://www.postman.com/foursquare-places-api/foursquare-s-public-workspace/collection/qjus7hq/foursquare-places-api</a>	19	
GBIF Species   [16]	<a href="https://techdocs.gbif.org/en/openapi/v1/species">https://techdocs.gbif.org/en/openapi/v1/species</a>	ONLINE	NO	NO	NO	26	37	26	1	0	0	0	<a href="https://github.com/techdocs/gbif.org/openapi/checklistbank.json">https://github.com/techdocs/gbif.org/openapi/checklistbank.json</a>	20	
Genome Nexus   [3][13]	<a href="https://docs.genomexus.org/api">https://docs.genomexus.org/api</a>	BOTH	NO	NO	NO	22	6	13	10	0	0	0	<a href="https://www.genomexus.org/swagger-ui.html">https://www.genomexus.org/swagger-ui.html</a>	21	
Gestao Hospital   [11][20]	<a href="https://github.com/YalchanOfficial/GestaoHospital">https://github.com/YalchanOfficial/GestaoHospital</a>	LOCAL	NO	NO	NO	13	4	10	10	3	2	0	<a href="https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/gestahospital-rest.json">https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/gestahospital-rest.json</a>	22	
GitHub   [8][10][17][19][24]	<a href="https://docs.github.com/en/rest">https://docs.github.com/en/rest</a>	ONLINE	KEY	OPT	YES	638	76	510	154	91	154	56	<a href="https://github.com/github/rest-api-description">https://github.com/github/rest-api-description</a>	23	
GitLab   [11]	<a href="https://docs.gitlab.com/ee/api/rest">https://docs.gitlab.com/ee/api/rest</a>	ONLINE	KEY	OPT	YES	48	18	33	14	14	11	0	<a href="https://github.com/WebFuzzing/EMB/blob/master/doc/api/openapi/openapi.yaml">https://github.com/WebFuzzing/EMB/blob/master/doc/api/openapi/openapi.yaml</a>	24	
Google Geocoding   [10]	<a href="https://developers.google.com/maps/documentation/geocoding">https://developers.google.com/maps/documentation/geocoding</a>	ONLINE	KEY	OPT	YES	1	10	1	0	0	0	0	<a href="https://www.postman.com/google-maps-platform/google-maps-platform/collection/c4xo2u9/google-maps-platform-core-api">https://www.postman.com/google-maps-platform/google-maps-platform/collection/c4xo2u9/google-maps-platform-core-api</a>	25	
Google Maps   [10]	<a href="https://developers.google.com/maps/documentation">https://developers.google.com/maps/documentation</a>	ONLINE	KEY	OPT	YES	14	40	8	9	0	1	0	<a href="https://docs.graphhopper.com/">https://docs.graphhopper.com/</a>	26	
Graphhopper   [14]	<a href="https://docs.graphhopper.com">https://docs.graphhopper.com</a>	ONLINE	KEY	OPT	YES	MULTIPLE APIS		/	/	/	/	/	/	/	
Gravitee.io   [12]	<a href="https://github.com/gravitee-io/gravitee-api-management">https://github.com/gravitee-io/gravitee-api-management</a>	API IS NOT REST	/	/	/	/	/	/	/	/	/	/	/	/	
Ind0   [9][11]	ANONYMIZED / NOT PUBLIC	/	/	/	/	/	/	/	/	/	/	/	/	/	
Kafka REST Proxy   [12]	<a href="https://github.com/confluentinc/kafka-rest">https://github.com/confluentinc/kafka-rest</a>	LOCAL	NO	NO	NO	38	37	32	8	3	5	1	<a href="https://github.com/confluentinc/kafka-rest/blob/master/api/v3/openapi.yaml">https://github.com/confluentinc/kafka-rest/blob/master/api/v3/openapi.yaml</a>	27	
LanguageTool   [3][4][6][11][13][19][20][24][26]	<a href="https://languagetool.org/ht-api">https://languagetool.org/ht-api</a>	ONLINE	KEY	OPT	YES	5	0	2	3	0	0	0	<a href="https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/languagetool.json">https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/languagetool.json</a>	28	
Magento   [4]	<a href="https://developer.adobe.com/commerce/webapi/rest">https://developer.adobe.com/commerce/webapi/rest</a>	LOCAL	NO	NO	NO	446	63	234	190	79	53	0	<a href="https://developer.adobe.com/commerce/webapi/rest/quick-reference/">https://developer.adobe.com/commerce/webapi/rest/quick-reference/</a>	29	
Management API for Apache Cassandra   [12]	<a href="https://github.com/k8ssandra/management-api-for-apache-cassandra">https://github.com/k8ssandra/management-api-for-apache-cassandra</a>	LOCAL	NO	NO	NO	56	25	19	38	1	2	0	<a href="https://raw.githubusercontent.com/k8ssandra/management-api-for-apache-cassandra/master/management-api-server/doc/openapi.json">https://raw.githubusercontent.com/k8ssandra/management-api-for-apache-cassandra/master/management-api-server/doc/openapi.json</a>	30	
Marvel   [6][17]	<a href="https://developer.marvel.com">https://developer.marvel.com</a>	ONLINE	KEY	NO	YES	39	36	39	0	0	0	0	<a href="https://gateway.marvel.com/docs/public">https://gateway.marvel.com/docs/public</a>	31	
OCVN   [3][11][12][13][19][25]	<a href="https://github.com/devatnay/ocvn">https://github.com/devatnay/ocvn</a>	LOCAL	NO	NO	NO	96	26	96	96	0	0	0	<a href="https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/ocvn-rest.json">https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/ocvn-rest.json</a>	32	
Ohsome   [6][12][13][26]	<a href="https://docs.ohsome.org/ohsome-api">https://docs.ohsome.org/ohsome-api</a>	ONLINE	NO	NO	NO	61	18	61	61	0	0	0	<a href="https://github.com/GIScience/ohsome-api/blob/main/docs/_static/swagger-agsauration.json">https://github.com/GIScience/ohsome-api/blob/main/docs/_static/swagger-agsauration.json</a>	33	
OMDb   [6][13][14][16][17][19]	<a href="https://www.omdbapi.com">https://www.omdbapi.com</a>	ONLINE	KEY	OPT	YES	1	11	1	0	0	0	0	<a href="https://github.com/Memade/openapi-definition/blob/master/OMDb.swagger.json">https://github.com/Memade/openapi-definition/blob/master/OMDb.swagger.json</a>	34	
Open Brewery DB   [16]	<a href="https://www.openbrewerydb.org">https://www.openbrewerydb.org</a>	ONLINE	NO	NO	NO	5	8	5	0	0	0	0	<a href="https://github.com/openbrewerydb/openbrewerydb">https://github.com/openbrewerydb/openbrewerydb</a>	35	
Openverse   [20]	<a href="https://api.openverse.org">https://api.openverse.org</a>	ONLINE	KEY	NO	YES	18	28	14	4	0	0	0	<a href="https://api.openverse.org/v1/schema">https://api.openverse.org/v1/schema</a>	36	
Password Utility   [14]	<a href="http://passwordutility.net">http://passwordutility.net</a>	DOES NOT EXIST ANYMORE	/	/	/	/	/	/	/	/	/	/	/	/	
PayPal (Invoices)   [10]	<a href="https://developer.paypal.com/api/rest">https://developer.paypal.com/api/rest</a>	ONLINE	KEY	NO	NO	14	6	4	10	2	4	0	<a href="https://github.com/paypal/paypal-rest-api-specifications">https://github.com/paypal/paypal-rest-api-specifications</a>	37	
Person Controller   [3]	NOT FOUND, NO REFERENCE IN THE PAPER	/	/	/	/	/	/	/	/	/	/	/	/	/	
PetClinic   [16][20][22]	<a href="https://github.com/spring-petclinic/spring-petclinic-rest">https://github.com/spring-petclinic/spring-petclinic-rest</a>	LOCAL	NO	NO	NO	17	1	14	9	7	6	0	<a href="https://github.com/spring-petclinic/spring-petclinic-rest/blob/master/src/main/resources/openapi.yml">https://github.com/spring-petclinic/spring-petclinic-rest/blob/master/src/main/resources/openapi.yml</a>	38	
PetStore   [4][14][20][23][29][29]	<a href="https://github.com/swagger-api/swagger-petstore">https://github.com/swagger-api/swagger-petstore</a>	LOCAL	NO	NO	NO	13	6	8	6	2	3	0	<a href="https://petstore3.swagger.io/api/v3/openapi.json">https://petstore3.swagger.io/api/v3/openapi.json</a>	39	
Piggy Metrics   [21]	<a href="https://github.com/sqah/piggymetrics">https://github.com/sqah/piggymetrics</a>	LOCAL	NO	NO	NO	11	0	7	1	3	0	0	NO OPENAPI OR POSTMAN		
Problem Controller   [3]	NOT FOUND, NO REFERENCE IN THE PAPER	/	/	/	/	/	/	/	/	/	/	/	/	/	
Project Tracking System   [3]	NOT FOUND, NO REFERENCE IN THE PAPER	/	/	/	/	/	/	/	/	/	/	/	/	/	
ProxyPrint   [2][3][9][11][12][15][16][25]	<a href="https://github.com/ProxyPrint/proxyprint-kitchen">https://github.com/ProxyPrint/proxyprint-kitchen</a>	LOCAL	NO	NO	NO	79	0	48	30	14	10	4	<a href="https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/proxyprint.json">https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/proxyprint.json</a>	41	
Quartz Manager   [12]	<a href="https://github.com/fabiomartins/quartz-manager">https://github.com/fabiomartins/quartz-manager</a>	LOCAL	NO	NO	NO	5	4	2	2	0	1	0	<a href="https://github.com/pranaybathini/quartz-scheduler/blob/main/Quartz-Scheduler.postman_collection.json">https://github.com/pranaybathini/quartz-scheduler/blob/main/Quartz-Scheduler.postman_collection.json</a>	42	
Random User Generator   [16]	<a href="https://randomuser.me">https://randomuser.me</a>	ONLINE	NO	NO	NO	1	12	1	0	0	0	0	<a href="http://documenter.getpostman.com/view/19878710/2a93Jrwk3R">http://documenter.getpostman.com/view/19878710/2a93Jrwk3R</a>	43	
Realworld App   [11][22]	<a href="https://github.com/ujakob/realworld-example-app">https://github.com/ujakob/realworld-example-app</a>	LOCAL	NO	NO	NO	12	3	7	6	2	4	0	<a href="https://github.com/gothinkster/realworld/blob/main/api/openapi.yml">https://github.com/gothinkster/realworld/blob/main/api/openapi.yml</a>	44	
Refuge Restrooms   [14]	<a href="https://www.refugerestrooms.org/api/docs">https://www.refugerestrooms.org/api/docs</a>	ONLINE	NO	NO	NO	4	12	4	0	0	0	0	<a href="https://www.refugerestrooms.org/api/swagger_doc.json">https://www.refugerestrooms.org/api/swagger_doc.json</a>	45	
ReqRes   [16]	<a href="https://reqres.in">https://reqres.in</a>	ONLINE	NO	NO	NO	7	5	4	3	2	2	2	<a href="https://www.postman.com/regresapi/reqres/collection/r18ped/reqres-api">https://www.postman.com/regresapi/reqres/collection/r18ped/reqres-api</a>	46	
REST Countries   [3][6][11][12][13][16][20][26]	<a href="https://restcountries.com">https://restcountries.com</a>	ONLINE	NO	NO	NO	22	16	22	0	0	0	0	<a href="https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/restcountries.yaml">https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/restcountries.yaml</a>	47	
REST Faults   [11]	<a href="https://github.com/WebFuzzing/rest-faults">https://github.com/WebFuzzing/rest-faults</a>	LOCAL	NO	NO	NO	4	0	4	1	2	1	0	<a href="https://github.com/WebFuzzing/rest-faults/blob/master/src/main/resources/schema.json">https://github.com/WebFuzzing/rest-faults/blob/master/src/main/resources/schema.json</a>	48	
REST Market   [3]	NOT FOUND, NO REFERENCE IN THE PAPER	/	/	/	/	/	/	/	/	/	/	/	/	/	
REST NCS   [3][9][11][15][18][25]	<a href="https://github.com/WebFuzzing/EMB/tree/master/jdk_8_maven/cs/rest/artificial/ncs">https://github.com/WebFuzzing/EMB/tree/master/jdk_8_maven/cs/rest/artificial/ncs</a>	LOCAL	NO	NO	NO	6	0	6	0	0	0	0	<a href="https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/rest-ncs.json">https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/rest-ncs.json</a>	49	
REST News   [2][3][9][11][15][18]	<a href="https://github.com/WebFuzzing/EMB/tree/master/jdk_8_maven/cs/rest/artificial/news">https://github.com/WebFuzzing/EMB/tree/master/jdk_8_maven/cs/rest/artificial/news</a>	LOCAL	NO	NO	NO	6	2	3	1	3	0	0	<a href="https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/rest-news.json">https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/rest-news.json</a>	50	
REST SCS   [3][9][11][15][18][25]	<a href="https://github.com/WebFuzzing/EMB/tree/master/jdk_8_maven/cs/rest/artificial/scs">https://github.com/WebFuzzing/EMB/tree/master/jdk_8_maven/cs/rest/artificial/scs</a>	LOCAL	NO	NO	NO	11	0	11	0	0	0	0	<a href="https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/rest-scs.json">https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/rest-scs.json</a>	51	
RESTful Web Service Study   [3]	NOT FOUND, NO REFERENCE IN THE PAPER	/	/	/	/	/	/	/	/	/	/	/	/	/	
Scout API   [2][3][7][9][11][15][18][25]	<a href="https://github.com/WebFuzzing/EMB/tree/master/jdk_8_maven/cs/rest/original/scout-api">https://github.com/WebFuzzing/EMB/tree/master/jdk_8_maven/cs/rest/original/scout-api</a>	LOCAL	NO	NO	NO	21	25	21	10	7	9	2	<a href="https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/scout-api.json">https://github.com/WebFuzzing/EMB/blob/master/openapi-swagger/scout-api.json</a>	52	
Senzing   [12]	<a href="https://senzing.zendesk.com/hc/en-us/categories/360000120514-Senzing-API-for-Developers">https://senzing.zendesk.com/hc/en-us/categories/360000120514-Senzing-API-for-Developers</a>	LOCAL	NO	NO	NO	31	29	25	7	1	1	0	<a href="https://github.com/senzing-garage/senzing-rest-api-specification/blob/main/senzing-rest-api.yaml">https://github.com/senzing-garage/senzing-rest-api-specification/blob/main/senzing-rest-api.yaml</a>	53	
SockShop   [20]	<a href="https://github.com/microservices-demo/microservices-demo">https://github.com/microservices-demo/microservices-demo</a>	LOCAL	NO	NO	NO	NO OPENAPI OR POSTMAN		/	/	/	/	/	/	/	
SpaceX API   [11]	<a href="https://github.com/r-spacex/SpaceX-API">https://github.com/r-spacex/SpaceX-API</a>	ONLINE	KEY	NO	NO	41	0	29	21	0	11	13	<a href="https://github.com/r-spacex/SpaceX-API/blob/master/docs/README.md">https://github.com/r-spacex/SpaceX-API/blob/master/docs/README.md</a>	54	
Spotify   [6][13][17][19]	<a href="https://developer.spotify.com">https://developer.spotify.com</a>	ONLINE	KEY	NO	YES	68	63	59	5	17	8	0	<a href="https://github.com/sonalix/spotify-web-api/tree/main">https://github.com/sonalix/spotify-web-api/tree/main</a>	55	
Spree Commerce   [4]	NOT FOUND, NO REFERENCE IN THE PAPER	/	/	/	/	/	/	/	/	/	/	/	/	/	
Spring Batch Test   [3]	NOT FOUND, NO REFERENCE IN THE PAPER	/	/	/	/	/	/	/	/	/	/	/	/	/	
Spring Boot Sample App   [3]	NOT FOUND, NO REFERENCE IN THE PAPER	/	/	/	/	/	/	/	/	/	/	/	/	/	
Stripe   [5][6][8][10][24]	<a href="https://docs.stripe.com/api">https://docs.stripe.com/api</a>	ONLINE	KEY	NO	YES	388	138	257	271	0	32	0	<a href="https://github.com/stripe/openapi">https://github.com/stripe/openapi</a>	56	
Tumblr   [8][10]	<a href="https://www.tumblr.com/docs/en/api">https://www.tumblr.com/docs/en/api</a>	ONLINE	KEY	NO	YES	16	19	10	6	0	0	0	<a href="https://www.postman.com/api-evangelist/tumblr/collection/wa7adw/tumblr">https://www.postman.com/api-evangelist/tumblr/collection/wa7adw/tumblr</a>	57	
Ur-Codebin   [12]	<a href="https://mathew.stolight.io/docs/ur-codebin-api">https://mathew.stolight.io/docs/ur-codebin-api</a>	ONLINE	KEY	NO	NO	6	6	3	3	0	1	0			

PRAB Benchmark - Structural Characteristics of the REST APIs

API Name	Reference	Availability	Authentication	Pricing	Limits	Number of Routes	Number of Query Parameters					GET	POST	PUT	DELETE	PATCH	OpenAPI URL	Chart Number
YouTube   [5][6][8][13][17][19][24][26]	<a href="https://developers.google.com/youtube">https://developers.google.com/youtube</a>	ONLINE	KEY	NO	YES	46	71	20	11	0	15	0	<a href="https://www.postman.com/api-evangelist/youtube/overview">https://www.postman.com/api-evangelist/youtube/overview</a>				60	