abhrest - API AUTOMATION

API; - Application programing Interface.

Egy; - Mario notel in Hotels.com

Stand: -1; - Direct through & Mariot website

Frond and

Website

Uaula Teels)

Uaula Teels)

Uaula Teels)

Urestot

(restot

gente sontial)

JAM w see's as cient

-> All it see's as client

-> All operation are covered by Doctabase

Backend (what "it can stores from soon clients."

stands-2; - Hotels.com to noviot website.

(Jaugg Tech)

gard-end whe of massivite notel (Java) Tech.

mondot notel is one stack & thorels. They

another stack.

-> Even though frond end is Angular, Type scorpt and packard is I alla Tech, but there is design, the so ApI is not there. Acad Time usage of APILS-API6- middle Type layer. pequest twindend Backend code of maribled API http marottom mañotee Anotal (Angular -(Javag Tech) Type susipt) coeate pes. pesponse. allostez. -> when someone is access API when, API womes patabase create peservation method. (stores pata) -) APS & Independent of lange eg 6 - Fronts - end capature's all the data and sends to API by using neep prototog -) Frond-end of debails of data in the

format of Ison (08) xml lang to ApI.

- alahra

-) Then all data API is send's to create preservation nethod

-) From Ractend Respond will gives to API then API is sends pesponse turingh netps protocol by using Ison (08) xml lang format to Frontsend they all the all details is shown over the page.

APIG- Aprit is an Interface (08) commication protocol between client & server intended to simplify the milding the of want side so favore LAST HER BOTH

5 teps 5-1

1. End point / Brye uslo
Address where

API is nosted on the server.

Httpp methods which are commonly used to commicate with pest API's are.

Get, post, put and DELETE (cura operation)

GET 5- The GET method is used to entract Information from the given server using a given ust, while using GET sequests, it should only extract data and should have no other effect on the data. No proposal body reawired.

A post sequest is used to send data to the server, light customer into, the upload) using himl forms.

OF the target resource with upworded document

of the target personne given by a UPL.

need some concepts, my using that we can follow.

1-90-Sharing doug/ presources represent API/collection which can be accessed from the server. eg 5- google, com (seasch google, con /mages google, com (maps 2. path parameter epatu parameters are variousle parts of a UPL path. They are typically used to point of to a specific resource within a collection, such as a user Identified by Ip. cg: - https://www.google.com/tmages/11234 nexps: 11 www. google.com/docs/112372 neaps; ((www. google.com/orders/112 2. Query parameters --) avery parameter ? used to sost firther the resource's. -) Query palameters are Identified with 2 (g; - hetps: // amazon . com/orders 250xt- 5y = 2/20/22 Baseoust resource pote, - Query. parameters are always starts ? -) . I symbol is present in away parameter. 0 5 5

独 End point Request of L can be constructed; -> Base upilpesource/ (Query (path) parameters. Headers Lovicies :-(additional) Headers represent the neta-data associated with the API pegmest and Response. In layman teems, we were sending Additional details to API to process our fearest. eg: - Authorization details. Java (Session - 22) String 6-String st8 = "payment \$100 prid". sto. string st81 = new string ("payment \$ 100 pair"); 840 Pa Notes String object can excate by civing going class. 05/03/22

Ф арука

Reus sebbrating: 05/03/22 closs pos-v.mcgg String 3 = "pana"; String t = #1111; for Cint ?= 05. (ength()-1; ?>=0; ?--) t=t+s.chastli): 5.0.p(t); it (s=t) Interfaces. Interfaces does not have the Body. and it only Just signature of method -> In Interface 100% abstraction should be done. -> In class can define the Implement the Interface methodis, eg - pusic superface centraltraffic & puric wind greenge) public word redstopes pusic usi 4 fragh yerrower

pusic class Australiantrafice implements central trafics p.s.um() { @ overside Pussic void green Gol) & 11 code, 3 @overside pusic usid redistope) [ll code. z

Introduction to postman and google maps

- -> Searth the postman in google
- -) Downlad win 64 sit. Apr.

TO Get some Apt's from family netty. com.

- -> search for www. panulsmetty.com.
- click practise
- -> scroll down page & wick Apt contracts croppe
- -> Refore Going to Apt Testing, need some Apt contracts for that specific project.

Create a collection.

- -> Under collection Tas cick on (+) execut concersors.
- -> Given prosect name DR_Maps.
- -> Mile (...) wew nose actions .
- -) under that cick on Add pequest Tals and
- give name as pld place
- -> Then enter page usl of maps squalong with
- Resource, anery parameters & rich on send hutter.

understand Add place Apr and execute it taronger postmay. -> serect as post type introducting. enter in usis-for overy param (?) -> enter key & wey ralue, under params. -) under gody select Raw Type and Tent as ISON format. -> Then propaste the format in gody section. -> check the neaders of content-type in key. -) click on send & pesponse in generated as Per meanests. -> The In response sneet 200, is generated then it is working line Understand Get & perete place Aps using GET, DELETE HTTP methody using postman. TO Got forme April from the black direction

- DESCRICA LED ES CIT APP

I seemen has pertended in goods

section - 4 Prof Alghea setup for API 5-08/03/23 1. Java (JDK) 2. Eclipse editor 3. create saun présect à convert into naven. prosect. 4. Add dependencies testing, namerest & rest-Assured 5. create a class & write the code for the Add place and to get pesponse. Verity. Section-5 Validating Pest Apr's Pesponses &ctass-19 Assertions on Ison Responsed Body and headers through automated code go of proceage files; pt vone) of public was payword & P. static string Addplace (16 seturn "; AND DEAD 112

12 package firstApi importa io restassured lestassured; importa static io. restassued. RestAssured; *; import static org. hamcrest. Matchers +; mimpot files. payroad pueses class gasics & P. S. W. ne) 5 Opestassued. biseUPI = "https: // raine. given (). 10g (). all (). querygarament "key " "gawick 123"). header ("content-type"), "application (ison") · body (payroad · Addplace ET) - wenen. post (maps tapi/proceladdlison", then way, any. assertathat (). statuscoherroo). body ("scope", eaunal TO ('App")). header ('server", Apache 12, 4, 4) (Ubuntu)"); is Add dependencies sorting, economist & se





givenc) :- befines for user inputs.

whener 6- susmit the Api Responses, http netnots.

+hen(); - validate une response.

Thom session perpone

then () conditions. and points in cosole if home logall.

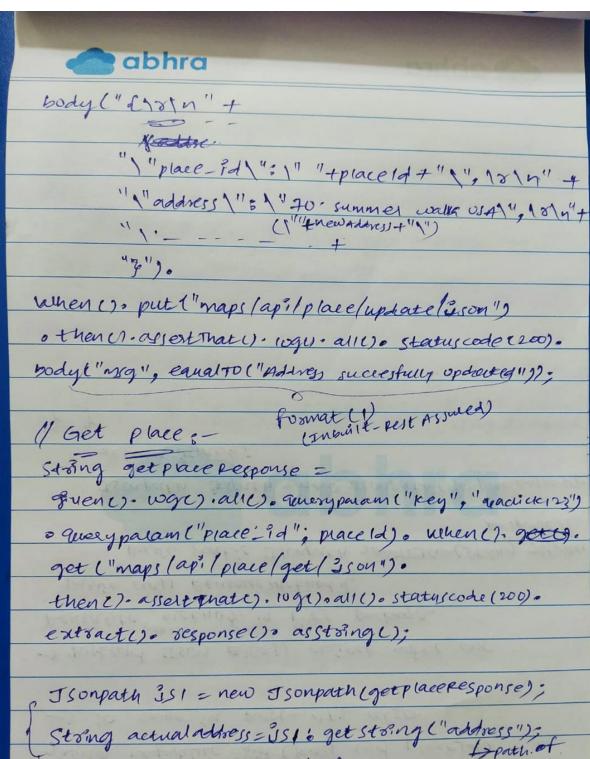
asserthate): - validate the pesponses

20/. parsing the USON response 09/03/23 body using Isonpatherass.

Jsonpath 3s = new Isonpath();

-> Isonpath is char class is the one which takes an input and convert that into Ison, It will not parse the Ison. There are not of methods expossed on Isonpath wass. A

Pest Assurd. baseup 1 = " String response = of vene, was all co. queryporm ("key", "qacice 123"). heades ("content-type", "apptison) . then (payroad. Adaptace ()) - when (). post(" "). that (). assert that (). status code (200). Lody ("scope") equal TO ("App")). header ("server", "Apachel 2- 4-18 ("but")) o extract 1,0 response 1,0 as string 1; Extract response from the Tent & 15. 5.0. p (response); possible sesponse in corrore. Fron path is = new Ispath (sesponse); If for parsing & String placeld = 35. getstring ("place-id"); 5-0. p (place (d); 217. Integrating the rankple ratues API's with common Ison Responge values propodate place. String newadaress = "summer walk, Africa"; givency. 10gej. auc). auryparam ("key" "apacisco 123") · header ("contents-type", "application (3504).



1>path of Printing response format (2). postman 9.00 p (actual add sess); Notes I I wowest into string

15 19 as Input to a Jon.

notes -) for get place ? In postman tool, we does not have bidy, under parameter, we are gring key laure and (key and place) - 9 so same in pest-ApI also. -) Instead Ison Bilass object with one Leusable netnos. in files package. pussic crass Reusause method d Passic static Isonputh sawto Ison String getplace pesponse) { · Isonpath 3 spath znew Isonpath (getplansesporge). seturn Espaths Redal " may", Essable (" poddie) necessary and ad well of . + hours make or ago - 2400 status at 1200.



24). Understanding standing of Nested Ison and it's away notations --> create one class in first API package. as day name complexIson paise. pussic dass complexisinpaised P. S. 4.mc) Is aspath is = new Isonpath (pay wad. coursepica). 1/26). patos ving Ison array size and its element using Isonpath. Il print no of courses returned by ADI. "int count = 35. get Int ("courses . size())"); 5.0. p (court); 1/ print puchase Amount ?ut total Amount = is a get Int ("dashear d. purchas Amount"); 5.0. p (total amout); Il print title of first course. String style first conose = 350 get ("course [o], title").

-) create one cometnot in payword class. public strong coursepices of retin 1/1 Is on body 22). Iterating over every element of Ison Array & accessing elements in it. Uprint an course titles and their respective prices for Cint 320, 32 count; 3++) String conserte = 35. get ("conses ["+ i+"]. time"); 5.0. p (corsis. get ("corses ["+"+"]. pinc"). tostingy. s. v. pecouseAties); Retrieving Ison modes on condition logic using Isonpath.

abhra a

for (int ?= 0; ? c count; ?++)

C

String coursefitle=350 get ("courses [#+i+"]. title");
?freomietitles, equaltymoseease ("RPA"))

1

int copies = is get ("conssest"+i+"]. copies");

S. O. p (espires) no. of copies soid by RPAH+ copies);

break;

3 3

29). Real Time examples to some Businey logic.

pussic days Summalidation of

arest.

pusic uoid samot courses () {

int sum = 0;

Json path 35 = new Isonputh (payword-course price));

int count = is getint ("corsses. Size (j');

for C'nt ? =0; ? count; ? ++) d

intropice = 3: getint ("courses ["+i+"] , price");

int copies = 3s . getint ("zoursses [+7+"]. copies").

20. int amount = price * copres; 5.0-p (Amount); sum = sum + amount; 5.0. p(sum); 3 nt purchaseAmount = is, getint ("daynogra- puraseAmount"). Assert assert quals Isun, purchase Amonts;