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J===		
		STOA Unit-5.
	*	Automation Testing
	b	
	+	using special testing tools and framework
		to Minimize the naman working
	*	H compare actual result with expected result
	X	functional and Non functional can be done
	+	Complex test canbe done
	45	process
	(a)	Requirement understanding
	(b)	Défining Scope à automation - de la
	13.8	finding right test cones
1	(e)	Selecting right tool
	Q1	framework estation.
	(e)	se scripting test cases.
	(1)	CICO (continuous Integration and continuous
		delivery) Integration.
		- Setting up tot suit
		= so, we can check the stability with just
	13-41	ane click ofter deployment.
	rang y	- 151 William of the second of
	*	Automotion Framework.
		- the (a, a) photograms
		It is set of rolls, guidelines or tools that
		help in creading and designing test cases
		Benefits.
		Reusability
	2.	Scripts easy Maintenance.

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	No hard coding
	No hard coarry
3.	Improve Etficiency
4.	more test coverage.
5.	dond? larka ellion
	Types Amarahan Franceloork
1.	uneor Automation Francework.
	- SIMPITS!
	- just write one single program without
	moderaty in sequential steps.
	Adv. Disadv.
	1) Simple 1) No resusability.
File	2) less fine 2) maintenance is difficult
	The same of the state of the same of the s
2.	Modular based Testing
	divide application into Seperate units. and Ay
	Modules are tested separately.
	Adv. Disdv.
1	No need to test entire 1. hard coding.
	just test one module having 2. programming knowledge
	error ocquired.
2	Easy maintenance
	J productive to the second of
3.	libra 1 Tall Surwalc.
	Library Architectural Testing Francouric.
	Testing, but there was
	Kept scrips having similarity in one library.
4.	Adv. Disdv.
2	Eary maintenance 1. Expensise no needed rensanigh
	reusasiyay 2. hard coding
	The same of the sa

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4.	Data driver framework
	To run the Same Set of Operation on multiple Set of data that are Kept in Seperate files.
	mostly excel sheets.
	Adv. Disabler.
	resisable 1) complex process
2)	faster 2) highly experied
	the second of plants and plants a
5.	Keyword Driven Framework
1	Greate different Keywords for a different
	Set of double that are kept in Seperate
	files, mo operation and in the main script
	we can just refer to these keyword.
	Module as total see ofth
	adv. disadv.
	less knowledge required 1. Maintenance
	reusable 2. initial (ost ishish
6	Hybrid Test Automation.
	combined all framework.
	Denefit & all.
	and wall trade of the trade of
4	Benefit & Automation Testing
	No. 19
*	No human error It less test engineer required
	Save time + hottor wilization & globu resurce
+	frequently testing of diff type g testing

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A	1	provide other functionality Sucres Configuration
	1	installation, test data generation etc.
		Links of the sample and subject to the could
	/	disadr. g Automorion Testing
-	1	high cost
+	*	No awarners
-	1	required trained Stable
-		191 ignicable 1
+	*	How to choose Automation Testing tool.
+		parameter.
+	0	platform independent
+	(11)	easy to we
1	(III)	cost
	(h)	Extensibility and reusability
	(b)	Support
	(VI)	Support multiple framework.
	(111)	Support diff. type of testing.
	(vili)	debugging test report . etc
		or and memorish shirtam of
		4 steps for selecting Automation Testing Pool.
		pristant modernous based and it
	4	Identify requirement for tools.
-	2)	Evaluate the tools and vendors.
,		create tool shortlist
1		* ask quetion to rendon
1		
1		+ boal ausage
1	3)	t take feedback from other company
1	5	Estimate Cost and Benefit Make to de Occident
		Make final & Desision.
	1	The state of the s

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*	Introduction to Selenium Automation Pestino Tool.
	Selenium is tree open source web Automation Pool which is used to perform testing on web Application.
	It has four component Selenium IDE Selenium PC
	Webpriver selenium Crid.
+	It has rich set of testing function.
	feature & Selenium (Advantage & Why Schnim)
1	open source
2.	multiple os
3.	multiple browser
4	multiple programming lang
5.	muliple framework
6.	web based Automation testing.
7	
8	Uses less Hordware resources.
9	support parallel jest cone execution.
10.	
	Disadventage.
1.	
2.	Cimited support to maje testing
3.	No support from anybody

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	New fealure may not work	procedu.	
u.	News	historia	
	sdeniums Tool Swit.		
	SUIDE SURC [Webp	Di Jed	
	SUDE PC Webp Mosed J		
	Seleni	um 2	
	Upo attemptations and and	New & Improved.	
	Selm	ium 3	
4	Selection In n		
	Elenium IDE		
	It is integrated develop selmium test.	sment chrisonment for	
-	It is implemented as firet	ox extension allow	
	you to record, edit and replay the test.		
-	- Record and Playback.		
	Debug and breakpoints.	mot wantasti	
	an Export RC and m	rebonier.	
	Selenese command.		
	feature		
1	Man	file, edit Action, option, hdp.	
3.	(vol bar	fest-slow, fun	
	A 1 1.	UPL	
2.	Test case pane	all a s'elacrotuck	
l'é.	1011	an shivere we are	
1	Smot Editor Box Smot She Rearding Button. log, Reterence Rane.	and independent to	
	rence Pane.		
	Anny of many of the second	La constitution and the second	

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	Selenium command - "Selenese"
1	Sequence à command is test sonjet
	THE PARTY OF THE P
(1)	Action: Manipulate the State of Application
	eg. click this link
	Select final ophion,
	3 The said of market let !
(1)	Accessors: Examine the State of the appliculation
	and Store the result in variable.
	eg. Storchtle
	The state of the s
(II)	Assertions: enable tester to venify the state
	9 Application
140	ez. von hydert.
	test palps had like brains of way
*	Selenium Rc
	Selinium femote combol. is a server
	written in Java that accepts commands for
	browser via HTTP.
	features.
•	Any programming lang
	Any browser.
0	Au Ratform.
•	automatically contigure
	Supposting language, java, time, ett lyhon
-	14 convert Selenere to programming language
-	provide Solution to Cross browser testing

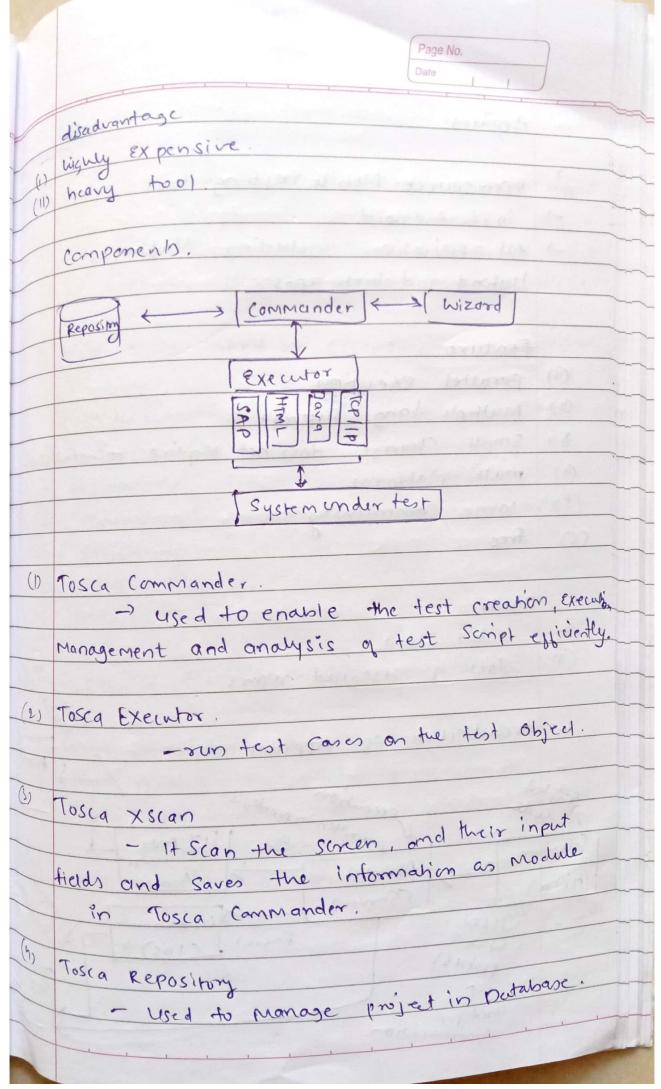
1	
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	components & RC.
(1)	selenium sener.
1	It launches and HII browser
1	It interpret and Execute the schnese.
1	as HITP POXY
-	
0	client library.
_	- provide inter-face blu programming land and
_	Seboium RC Server.
_	The second with the second control of the se
*	Selenium WebDriver.
->	
	(a) muli browser teshing (better than Rc)
	6) Hondling muliple frame.
	() Complex page navigation.
1 000	(d) Ajax based UI element.
	the surface missers domestile on the
) It interact directly with browser and
	uses the browser's engine to Combol it.
,	purely object oriented API.
-	faster.
	can test mobile application.
	Architecture
	4 components.
	1. Selenium client Cibrany
	It support multiple library sum as gava,
1	
	inguage pinding
	The state of the s
	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.

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	The state of the s
2.	JSON wire protocol Over HTTP client
	-) It provide bonsportation Mechanism
	to transfer data between a server and
	a Client.
,	
3.	Browser Dovers.
A STATE OF THE STA	-) It Communicate with browser.
1,	-) After receiving command it execute
	on respective browsers.
	and response back in the form of HTTP
1,	Paris ser por se
4.	Browser -> Croosle Chrome, satari, firetor,
*	Selenium Grid.
	- used together with selenium Kc to our
	test on different machine against different
	browser in parallel.
->	Coordinate wim PC/ webdriver.
	19420t
	2 versions Schenium (mid 1 4 Schenium Grid 2.
	Architecture. Hus
1	OHUS. (nod fred fred food
	->14 receive all request and distribute them to
	now node.
	I only one Hub
(3	Node: instance which execute the first care

Page No. Date Automation Tools -subtwere applications that help usen to test various desictop, web, and mobile application SOAPUI - open source. - API testin g tool - It is most widely ased automation tool for testing web Service and web APTS of SUAP and REST interfaces. - Non functional + functional testing - Exchange into in &xml. or) SON. - Simple and easy 1) Support all Standard protocol 1 1 Schenium Architecture (Corony Third parl Mest config ; SOAP UI PROJECT -> Frest report (property or Application under test test config file: include Database connadion, variable Expected roult and selep en. Selvium: Selvium JAR Cropory: Ubrary that provide Scripting long Third party Apz - used to Create fest automation SoapuI Runner - unc to min. toanework test Report.

1	
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	properties: used to hold any dynamically
	generated data
	The second best to the second
	Adv.
	simple CruI
_	cross platform disktop based opplication.
-	AU prolocol Support
and to-1	less cost
3	stast 1902 post 194 wow bore source and
_	Support drug and drop
	private transferred to tomorround and -
	disadv.
-)	langer to request big data.
	Security testing require chancement.
	SoapuI toring: Supported
	- topode
1)	functional testing.
リ	
3)	Security tening
4)	Compliance Testing
5)	- Testing
- North A	The state of the s
	The state that the state of the
1	194 miles in invitation
The Property	

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	Types RPA
/ 11 1-	unattended. LPA) No human intervebbon
	attended RPA -) human intervention
5	Hybrid -> Both
<u></u>	varicing
(D)	Planning:
r .	Design and development: cration & bit
(111)	Deployment and tering: Execution & bot
(In)	Support and Maintenance.
	Tosca. Topology and orchestration specification for cloud Application:
	esting and SQA. Sicentis
- (1) p	tutomated and Ma
(4)	Security festing Scriptless test case
(c) 1 * us	an be integrated ewith CI fool. c for large scale application



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	A = 0
	Appium
·	37 (2 8 9) (3)
	Open source Mobile testing tool.
<u> </u>	iosk Android
-	All application. including Nather,
, , , , , , , , , , , , , , , , , , , ,	Hybrid and web apps.
	brows of visba primas
	feature ->
(1)	porallel execution.
(2)	Multiple lang. Support
(3)	small change does not require reinstallation
(h)	multi platform
(5)	large Community
(6)	free t
	objection (organists)
20003.0	Disadv.
C1)	a hil class
(11)	lack of detailed report
	J- NK
1	Acchitecture of Appium
	h rippium
	2
2 co	de execution nools
Schenium	Reg UI Aws
	Approx (A)
- (clien)	(Server)
	130 cm way town
	protocol Regust (105)
	Tos
	Cantunicarion.
TALL CONTRACTOR	