# Practical 4: Railway Reservation System.

				J	
I	Test Case	steps 1231	Expected	Actual	Pac. 11-1
01	Mobile login.	Enter 10 digit	Should send		Result:
	3	no. with (7-9)	OTP on no	Sends orp	Pass-
				on that na	
02	Recieve off	DEnter valid no.	Mobile	Mobile is	Pan
		2) Enter OTP	registered	registered	
				1	
0	3 Email login	Enter [*@*·*]	should send	sends orp	Pass
		format mail	orp on mail		
				*	
DE	Recieve link	Enter valid mail	Mail	Mail is	Pass.
		Enter OTP.	registered	registered	
05	Ticket booking	Open Ticket	Entered	Entered	Pass.
-	(From)		location	location	
		oddress in From	must selected	Ps selected	
06	Ticke booking	Open Ticket	Entered	Entered	Pass.
	Ticke booking (70)	and enter	location must	location.	
1		address in To.	be selected	is sulected	
07	Availability	Enter From		AU	Pass.
		and To and		available	
		after filling	trains for	trains	
		address	next 45	for next	
		click enter	days will	45 days	
			be visible.	ase visible	

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- \* Practical Related questions:
- 1) Give significance of testing in RRS.
- It is very much easy to search for the train wished without having to remember its train code or train number, rather just enter source and distination.
  - 2) Provides Faxe table for passengers:

    A fare table is already avoilable

    so the passengers can know the

    price for their ticket
  - 3) Reduce the posibility to make mistake:

    Due to excessive work it is only
    human to make mistake these the

    chances of mistake is next to none.
  - (1) Reservation is a piece of cake:

    The overall method is easy
    and based on a few steps.

    No huge amount of knowledge
    is required to complete the task

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- 2) What are different test methodologies that shall be applied to RRS?
- → 1) Unit Testing: As each and every module should work correctly.
  - 2) Integration Testing: As module should interact with each other correctly.
  - 3) System Testing: As the system as whole should function correctly.
  - 4) Performance Testing: A lot of users are going to use the site simultaneously and it should be able to handle it.
  - 5) Security Testing: As there is a shit load of transactions in this website user should not lose his they money due to some visus.

3) Give significance of system Testing in RRS.

System Testing:

System testing is a black box

testing method used to evaluate the

completed and integrated systems;

to ensure it meets specified

sequirements. The functionality of

software is tested from end to end

and is typically conducted by a

seperate testing team than the

development team.

Significance: As the success of a website depends how on whether it fulfils user requirements or not system Testing plays a big sole in ensuring that. If the whole system works well, like user is able to book reservations, cancel reservations view force ctc very easily. He I she will be indined to use the website.

#### \* Exercise :

1. Prepose test cases to cheek availability
of train from Mumb ai to Delhi in next 5 days.

I	7					
	ID	Test Cases	steps	Expected	Actual	Result.
	DI	Ticket booking.	DENter (Munbai)	All the	All the	Pass.
					trains	
1			2) Enter 6 Delhi?	available	avallable	
			9n 6 703	according	according	
			3) Enter '5'	to seash	to search	
1			in no. of days	must be	ase	
				displayed.	available	
١				,		

2) Generale Test cases for user validation on RRT.

44.			
Result.			
Result.			
ro. Pass.			
d			
k Pass			
1.			
Pass.			
20			

4) Execute Test cases of Q2.
a) Enter invalled mobile no. With 7-8 digits

ID	Test (	Case	Steps	-	Expected	Adual	Result-
01	Mobile	10971	Enter 7-8	digit	Invalid	Invalled	Pass.
		J	no.	,	no.	no.	

b) Enter your email with a.

ID	Test Cases	(Len	Expected	Actual	Result
01	Email login	Enter	Invalid	Invalid	Pass.
OT	anal login	T*. * 7	mail.	mail.	
		format			

## Practical 5: Validate login for E-commerce.

ID	Test Cases	Steps	Expected	Actual	pesult.
	Mobile login.	Although the second sec	Should sen	Sends	Pass.
	9	Enter 10 digit no. with (7-9)	OTP on no.	OTP.	
02	Reviews OTP	1) Enter valld no.	Mobîle	Mobile is	Pass.
		2) Enter OTP.	registered.	registe red	
			9	1	
03	Email login	Enler (*0 * . + ]	should send	Sends	Pasi.
	9	form at mail.	19nk.	link.	
04	Recieves 19nk.	1) Enter valid ID. 2) Click on link.	E-mail	Email	Pass.
		2) Click on link.	registered	registered	
				,	0
05	Example of	Enter 797260448		Sends	Pass.
	mobile login.	as mobile no.	orp on	ott on	
	0		7972604463	7972604463	
				Φ,	0
86	User recieves	i) Entered valid	No. 79726044	Mobile	Pass.
	07P.	no.	63 segistered	is	
		2) Enter 07P.	63 segistered successfully.	regis tesed	
					0-1.
0=	F User Email		- 100	Senda	Pass.
	100	@gmail.com	send 19nx	19nk	
			T	F 291	Pass
08	? Recies link.	click on			,
		link on	registered	751500	
		gaurav 120 gmail	LILL HEE		
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\* Practical Related questions: 1) What are security related threats for E-C? > Major E-commerce Security Threats are: 1) Financial Frauds. 2) Spam. 3) Bots. DDOS Attacks 5) Brute force Attacks. 6) sol injections. 7) XSS. 8) Trojan Horse.

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2) list different authentication Protocals. An authentication protocol is defined as a computer system communication which may be encrypted and designed specifically to secure transfer of data. 1) Password Authentication Botocol. 2) One Time Password Protocol. 3) Time-base One Time password Brotocol. 3) Describe various encorption techniques AES (Advanced Encryption Standard) Blowfish Encryption. RSA Encryption.
Triple DES Encryption. 5) Two fish Encryption. DES Encoyption: 6) IDEA Encoyption.

\* Exercise:

1) Prepare test cases to register yourself on EC.

Ц	-							u
	ID	Test	Cases	Steps	Expected	Actual	Result.	
	01	User	login			1000	Pass.	L
			3	2) Elick enter	must be	logged		
				3) Enter OTP.	logged	าก		
					in	successfu	Ke.	
				4) Enter gaurau 126	successfully.	-lly -		
				quail. om.	1	)		
				3) Click enter				
	1			B) Click on				
				lînk.				

2) Generale test cases to validate user condentials

۰	7		the same of the sa		-	100	
1	ID	Test Couses	Steps	Expected	Actual	Result.	
1	OI	- 21		Valid	Valid	Pas 1.	
1			digit no	Indian	Indian		
			with two	Mobile	Mobile		
			PriHals (7-9)	no.	no.		
			Trairio				
		11 +0	1) Enter	Valid	Valld	Pass.	
	02	Email ID	[**@**·**]		Email		
			format	ID	ID		
				10			
			Email ID.				
	1			CATIONAL USE			

## Practical 6: Test functionality of website.

T	ID	Tet case.	Steps	Expected	Actual	Result
liti		Functionality,	1) Opem website	Activites	Activities	Pass.
		of Activities	2) Click Menu.	should be		
		Page.	3) Click Activities	displayed.	1000000 4	
۱		,		1 3	1-3	
	02	Get info	1) Click Menu.	Info about	Info is	Pass.
		about 40D.	2) Click Department	HOD must	displayed.	
			2) Click Department 3) Click on HOD.	be displayed.	10	
	03	Cret Info	D Click Menu.	Academics	Info	Pass.
		of	2) Click Student	Into must	1s	
		Academics	3) Click Academia	be displayed.	displayed.	
						0
	04	Get Info	1) Click Menu.	Au the	Into	Pass.
		of News	2) Click Student	news and		
		and Events	.3) Click on	Events	displayed	
			News and	must be		
			Events.	displayed		
						0
	05	Get Info	1) Click Menu.	All the	1000	Pasc.
		for	2) Click Student	process	the	
		admission	3) Click on	of .	Into is	
		process.	Admission.	admission	displayed	
				and Ink		
				must be		-
				displayed.		
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\* Practical Related questions.

1) Crive significance of performance & stress testing.

1) Performance Testing:

Performance testing is a functional testing technique used to determine how an application will behave under various conditions. The goal is to test its responsive ness and stability in real user situations.

Stress Testing:

Stress Testing takes this a step

further and is used to guage

how your software will respond

at or beyond its peak load.

The goal of stress testing is to

overload the application on purpose

ustil it breaks by applying

both realistic and unrealistic load

scenarios:

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2) what is necessity of configuration testing?

Configuration Testing:

Configuration Testing is defined
as a software testing type, that
checks an application with multiple
combination of software and hardware
to find out the optimal configuration
that the system can work without
any flaw or bugs.

3) Describe various security testing to be performed for web application.

Security Testing:

with the rise of cloud based testing platforms and cyber attacks there is a growing concerns and needs for the security of data being used and stored in software. Security testing is a non-functional software testing technique used to determine if the information and data in system is protected.

#### \* Exercise.

1) Prepare test cases to test your collège website for any 5 18nks.

	-					
-	ID	Test Case	steps	Expected	Actual	Deville
	01	Functionality	1) Click Menu.	Activity	Achivity	
		of Achority	2) Click Activity.	10	Page is	rass.
		Page.	J	Page is	Page is	
				0 000	1000	
	62	Functionality	Darck on Menu.	HOD into	HOD into	Pass
-		of About	2) Click Department		is	
		HOD.	3) Click on HOD.	loaded.	loaded.	
	03	Functionality	1) Aickon Menu.	Academia	Academiy	Pass.
			2) Click on Student		Page 15	
I			3) Click on Academic		loaded	
Ì						
I	04	Functionality	D Click on Menu.	News &	News	Pass.
1		of News	2) Click on student.	Events	6 Events	
1		and Events.	3) Click on News	Info is	Info is	
1			and Events.	loaded.	loaded	
t						_
1	05	Functionality	1) Click on Menu.	Admission	-	Pass.
-		of	2) Click on Student		tnto is	
		Admission	3) Clickon	loaded.	loaded.	
-		Process.	Admission.			
-						

3) Execute above test case created in Question I by performing appropriate operations and verify results.

All the test cases for the functionality of the website work worked and hence their results can be considered as pass.

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