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Test Case Report for Guest Identity & Reservation Smart Contract

Test	User Story	Conditions	Steps	Expected	Accepted	Result
No.	(Redeemer)		•	Output	Output	
1	SubmitIdenti ty – Valid initial identity submission	guestAddres s == ""• adminPKH == empty•	Create SubmitIdentit y redeemer with a new non-empty guestAddress & admin key; call validator	Validator allows update; sets guestAddre ss, adminPKH and initiateChec kIn == True	Update accepted and	V Pass
2	SubmitIdenti ty – Reject when guest address exists		Call SubmitIdentit y on a datum whose guestAddress is already non- empty	Validator rejects update due to existing address	Update rejected	V Pass
3	VerifyIdentit y – Valid identity verification by admin	• guestAddres s!= ""• adminPKH set• initiateCheck In == True• isDigitalKeyV alidated == False	with admin key; apply VerifyIdentity	Validator allows update; sets isDigitalKey Validated == True	Update accepted and committed	V Pass
4	VerifyIdentit y – Reject without	• all other fields valid but tx not	Sign transaction with a non-	Validator rejects update for	Update rejected	V Pass

5	signature	signed by admin	admin key;	missing	i e	
5		ualiilli	apply	admin		
_			VerifyIdentity	signature		
	ConfirmIden		Apply	Validator	Update	Pass
	tity – Valid	isDigitalKeyV	ConfirmIdenti	allows	accepted	
	identity	alidated ==	ty redeemer	confirmatio	and	
	confirmation	True		n	committed	
6	ConfirmIden	•	Apply	Validator	Update	Pass
	tity – Reject	isDigitalKeyV	ConfirmIdenti	rejects	rejected	
	when user	alidated ==	ty	confirmatio		
	not verified	False		n		
7	ReserveRoo	 no existing 	Apply	Validator	Update	Pass
	m – Valid	reservation	ReserveRoom	allows	accepted	
	room	on datum	redeemer	update;	and	
	reservation		with room	reservation	committed	
			details	recorded		
8	ReserveRoo	• datum	Apply	Validator	Update	Pass
	m – Reject	already has	ReserveRoom	rejects	rejected	
	when	a		reservation		
	already	reservation				
	reserved					
9	ConfirmRese	 previous 	Apply	Validator	Update	Pass
	rvation –	reservation	ConfirmReser	allows	accepted	
	Valid	exists	vation	update;	and	
	reservation			reservation	committed	
	confirmation			status		
				confirmed		
10	ConfirmRese	 no existing 	Apply	Validator	Update	Pass
	rvation –	reservation	ConfirmReser	rejects	rejected	
	Reject when		vation	confirmatio		
	not reserved			n		
11	InitiateChec	 reservation 	Apply	Validator	Update	Pass
	kIn – Valid	confirmed•	InitiateCheckI	allows	accepted	
	check-in	identity	n redeemer	update; sets	and	
	initiation	confirmed		initiateChec	committed	
				kIn == True		
12	InitiateChec	 reservation 	Apply	Validator	Update	Pass
	kIn – Reject	not	InitiateCheckI	rejects	rejected	
ĺ	when user	confirmed or	n	check-in		
ĺ	not verified	identity not		initiation		
		confirmed				
13	CheckOut -	• check-in	Apply	Validator	Update	Pass

	Valid	has been	CheckOut	allows	accepted	
	check-out	initiated	redeemer	update;	and	
				guest may	committed	
				check out		
14	CheckOut –	 reservation 	Apply	Validator	Update	Pass
	Reject when	not	CheckOut	rejects	rejected	
	not reserved	confirmed or		check-out		
		no check-in				

Screenshot

```
/home/rajesh/Blockchain/HGE_SC/dist-newstyle/build/x86_64-linux/ghc-8.10.7/smart-contract-1.0.0/t/digital-key-test/test/smart-contract-1.0.0-digital-key-test.log

I of 1 test suites (1 of 1 test cases) passed.
Running 1 test suites...

RESE suite heg-test: RUNNING...

HGE Hotel Guest Experience Validator Tests

SubmitGentity Redeemer

Valid initial identity submission:

Reject submission when guest address already exists: OK

VerifyIdentity Redeemer

Valid identity refication by admin:

Reject verification without admin signature:

OK

ConfirmIdentity Redeemer

Valid identity confirmation:

Reject confirmation when user not verified:

ReserveBoom Redeemer

Valid own reservation:

Valid own reservation:

Reject reservation when already reserved:

OK

ConfirmReservation Redeemer

Valid reservation enfirmation:

OK

Reject confirmation when on reserved:

OK

ConfirmReservation Redeemer

Valid check-in initiation:

OK

Reject check-in when user not verified:

OK

CheckOut Redeemer

Valid check-out:

OK

CheckOut Redeemer

Valid check-out:

OK

CheckOut Redeemer

Valid check-out when not reserved:

OK

CheckOut Redeemer

Valid check-out:

OK

CheckOut Redeemer

Valid theck-out:

OK

CheckOut Redeemer

Valid check-out:

OK

CheckOut Redeemer

Valid chec
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