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# Test Case Report for Guest Identity & Reservation Smart Contract

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| Test No. | User Story (Redeemer) | Conditions | Steps | Expected Output | Accepted Output | Result |
| 1 | SubmitIdentity – Valid initial identity submission | • guestAddress == ""• adminPKH == empty• initiateCheckIn == False | Create SubmitIdentity redeemer with a new non‐empty guestAddress & admin key; call validator | Validator allows update; sets guestAddress, adminPKH and initiateCheckIn == True | Update accepted and committed | ✅ Pass |
| 2 | SubmitIdentity – Reject when guest address exists | • guestAddress != "" | Call SubmitIdentity on a datum whose guestAddress is already non‐empty | Validator rejects update due to existing address | Update rejected | ✅ Pass |
| 3 | VerifyIdentity – Valid identity verification by admin | • guestAddress != ""• adminPKH set• initiateCheckIn == True• isDigitalKeyValidated == False | Sign transaction with admin key; apply VerifyIdentity redeemer | Validator allows update; sets isDigitalKeyValidated == True | Update accepted and committed | ✅ Pass |
| 4 | VerifyIdentity – Reject without admin signature | • all other fields valid but tx not signed by admin | Sign transaction with a non‐admin key; apply VerifyIdentity | Validator rejects update for missing admin signature | Update rejected | ✅ Pass |
| 5 | ConfirmIdentity – Valid identity confirmation | • isDigitalKeyValidated == True | Apply ConfirmIdentity redeemer | Validator allows confirmation | Update accepted and committed | ✅ Pass |
| 6 | ConfirmIdentity – Reject when user not verified | • isDigitalKeyValidated == False | Apply ConfirmIdentity | Validator rejects confirmation | Update rejected | ✅ Pass |
| 7 | ReserveRoom – Valid room reservation | • no existing reservation on datum | Apply ReserveRoom redeemer with room details | Validator allows update; reservation recorded | Update accepted and committed | ✅ Pass |
| 8 | ReserveRoom – Reject when already reserved | • datum already has a reservation | Apply ReserveRoom | Validator rejects reservation | Update rejected | ✅ Pass |
| 9 | ConfirmReservation – Valid reservation confirmation | • previous reservation exists | Apply ConfirmReservation | Validator allows update; reservation status confirmed | Update accepted and committed | ✅ Pass |
| 10 | ConfirmReservation – Reject when not reserved | • no existing reservation | Apply ConfirmReservation | Validator rejects confirmation | Update rejected | ✅ Pass |
| 11 | InitiateCheckIn – Valid check‑in initiation | • reservation confirmed• identity confirmed | Apply InitiateCheckIn redeemer | Validator allows update; sets initiateCheckIn == True | Update accepted and committed | ✅ Pass |
| 12 | InitiateCheckIn – Reject when user not verified | • reservation not confirmed or identity not confirmed | Apply InitiateCheckIn | Validator rejects check‑in initiation | Update rejected | ✅ Pass |
| 13 | CheckOut – Valid check‑out | • check‑in has been initiated | Apply CheckOut redeemer | Validator allows update; guest may check out | Update accepted and committed | ✅ Pass |
| 14 | CheckOut – Reject when not reserved | • reservation not confirmed or no check‑in | Apply CheckOut | Validator rejects check‑out | Update rejected | ✅ Pass |

# Screenshot

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