Main | Main | Credit Card Pocessing System

CardInserted

entry/detect card
do/read chip or swipe data
exit/card validated

signal(card_detected)

PinVerification

entry/prompt for PIN
do/wait for input
exit/store PIN

when(pin_correct==false)

when(pin_correct==true)

TransactionSelection

entry/show options
do/select transaction type
exit/record selection

signal(option_selected)

AmountEntry

entry/prompt for amount
do/take amount input
exit/save amount

when(amount>0)

[rejected]

Declined

entry/show error message
do/notify user
exit/return card

Authorization

entry/send details to bank
do/wait for response
exit/store response

[approved]

Processing

entry/begin transaction
do/debit account
exit/record success

after(3s)

ReceiptPrinting

entry/print slip
do/finalize logs
exit/eject card

signal(print_done)

TransactionComplete

entry/display "Thank You"
do/reset machine
exit/ready for next user

SearchBook
entry/displayCatalog
do/wait for selection
exit/book selected

bookSelected : SignalEvent1

CheckAvailability
do/verify stock

[exit]

[available]

[notavailable]

WaitList
entry/record waiting member
do/notify when available
exit/move to issue

IssueBook
entry/record Issue
do/update member record
exit/notify user

book_available : SignalEvent1

after(1s) : TimeEvent1

when_due_date_reached : TimeEvent1

Borrowed
do/monitor due date

renew_request : SignalEvent1

[book_returned]

after(2s) : TimeEvent1

Renewal
do/extend due date

ReturnBook
entry/accept book
do/check damage, compute fine
exit/update record

[fine_due]

FinePayment
do/aft

Passport Automation System

ApplicationSubmission

entry/collect applicant info
do/store form data
exit/submit form

signal (form_submitted)

Verification

do/check documents

signal (resubmitted)

[additional_docs_requested]

[valid_docs]

[invalid_docs]

Correction

do/collect corrections

PoliceCheck

entry/initiate verification
do/get police report
exit/send status

[negative_report]

Approval

do/finalize approval

[report_clear]

Rejection

do/notify applicant

after (2 days)

[withdrawn]

Printing

entry/print passport
do/verify print quality
exit/print done

signal(print_complete)

Dispatch

entry/package passport
do/send passport
exit/update tracking

Booking
entry/collect customer info
do/check room availability
exit/store booking request

signal(details_verified)

[guest_changed_date]

Confirmation
entry/send confirmation mail
do/wait for guest response
exit/confirm booking

signal(guest_arrived)

CheckIn
entry/assign room
do/issue key
exit/mark room occupied

[room_occupied]

Stay
entry/provide room service
do/monitor guest needs
exit/prepare for checkout

signal(guest_requests_checkout)

[payment_issue]

after(10 min)

signal(request_service)

RoomService
entry/receive request
do/deliver requested service
exit/update guest bill

CheckOut
entry/generate bill
do/process payment
exit/confirm transaction

[payment success]

cancel_request

early_request

Feedback
entry/ask for feedback
do/collect rating
exit/ExitAction1

after(1 hour)

ReportGeneration
do/generate daily summary

when(cleaning_needed==true)

Maintanance
entry/assign staff
do/clean and restock room
exit/mark ready

signal(new_guest)

when(cleaning_needed==false)