Booking a Flight - Activity Diagram

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Customer selects flight from search results

System loads seat map for selected flight

Customer selects seat(s)

System calculates total price
(using seat class multipliers)

Customer proceeds to payment

Customer enters payment details

System validates payment details

Payment details valid?

no

Show validation error message

◉

System processes payment (authorization)

Payment authorized?

no

Show payment failed error

◉

System validates booking data
(customer, flight, seats)

System checks each selected seat
exists and is available

All seats valid and available?

no

Show error
Seat no longer available

◉

System checks if flight has enough
available seats

Enough seats available?

no

Show error
Not enough seats available

◉

System creates reservation
(status = CONFIRMED)

System saves reservation
to database

System marks each selected seat
as unavailable

System updates flight's
available seats count

System shows booking confirmation

◉