

Screen Mockups for Airline Management System

Button

Cancel



For dropdowns



Sort in ascending order(only applicable for the views)

airlineID

Pre-populated information

airlineID

(Type params here)

Simple Airline Management System (SAMS)

Airplanes

Pilots

People

Flights

Routes




Tickets

Airports

Views and Simulation Cycle

[1] Add Airplane

add_airplane()

airlineID	Delta		plane_type	jet
tail_num	n120jn		skids	
seat_capacity	10		propeller	
speed	350		jet_engines	4
location_id				

Cancel

Add

[2] Add Airport

add_airport()




airportID	SJC
airport_name	San Jose Mineta International Airport
City	San Jose
State	CA
location_id	<div>▼</div>

Cancel

Add

[3] Add Person

add_airplane()



personID	Delta		experience	jet
first_name	n120jn		airline	
last_name	10		tail	
taxID	350		miles	4
location_id				

Cancel

Add

[4] Grant Pilot License

Grant Pilot License

personID	p10	
License type	prop	

Cancel

Grant

[5]offer_flight

offer_flight




flightID	UN_3403	support_tail	n380sd
routeID	westbound_north_milk_run	progress	0
support_airline	American	airplane_status	on_ground
		next_time	15:30:00

Cancel

Add

[6] purchase_ticket_and_seat()



purchase_ticket_and_seat()

ticketID	Delta		seat_num	jet
cost	n120jn			
carrier	10			
customer	350			
deplane				

Cancel Continue

[7] Add_Update_Leg()

Add_Update_Leg()

legID	leg28	
Distance	2800	
Departure	AM_1523	
Arrival	2800	

Cancel

Assign

[8] Start_Route()

Start_Route()

routeID	new_eastbound_west_milk_run		
legID	leg_10		

Cancel

Assign

[9] Extend_Route()

Extend_Route()

routeID	eastbound_south_milk_run		
legID	leg_11		

Cancel

Assign

[10]flight_landing

flight_landing

flightID

SW_1776

Cancel

Update

[11] flight_takeoff

flight_takeoff

flightID


DL_1774

Cancel

Update

[12] passengers_board()


passengers_board()

flightID		
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Cancel Continue

[13] passengers_disembark()



passengers_disembark()

flightID		
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Cancel Continue

[14] Assign Pilot

Assign pilot


personID	p10	
Flight	AM_1523	

Cancel

Assign

[15] Recycle Crew

Recycle Crew

Flight	AM_1253	
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Cancel

Recycle Crew

[16] retire_flight()

retire_flight


flightID	DL_1243
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Cancel

Update

[17] remove_passenger_role()

remove_passenger_role()


personID	p10	
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Cancel

Remove

[18] Remove Pilot Role

Remove Pilot Role

personID	p10	
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Cancel

Remove Pilot

[19] Flights In The Air

flights_in_the_air()

Departure Airport ▼	Arrival Airport ▼	Number Flights	Flight List	Earliest Arrival ▼	Latest Arrival ▼	Airplane List
DAL	HOU	1	SW_610	11:30:00	11:30:00	plane_11
LAX	ORD	1	SW_1776	14:00:00	14:00:00	plane_9
...

[20] Flights On The Ground

flights_on_the_ground()

Departing From ▼	Number Flights ▼	Flight List	Earliest Arrival ▼	Latest Arrival ▼	Airplane List
ORD	1	AM_1523	14:30:00	14:30:00	plane_4
ATL	1	DL_1174	08:00:00	08:00:00	plane_1
...

[21] People in the air

people_in_the_air()

[illegible]

[22] People in the ground

people_in_the_air()

[illegible]

[23] Route Summary

route_summary()

Route ▼	Number of Legs	Leg Sequence	Route Length ▼	Number of Flights	Flight List	Airport Sequence
circle_east_coast	3	leg_4, leg_20, leg_7	1800	2	DL_3410, SP_1880	ATL->ORD, ORD->DCA, DCA->ATL
circle_west_coast	3	Leg_18, leg_10, leg_22	2800	2	AM_1523, UN_717	LAX->DFW, DFW->ORD, ORD->LAX
	

[24] Alternative Airports

route_summary()

City ▼	State ▼	Number of Airports	Airport Code List	Airport Name List
Anchorage	AK	2	ANC,MRI	Ted Stevens Anchorage International Airport, Merrill Field
Chicago	IL	2	MDW,ORD	Chicago Midway International Airport, O'Hare International Airport
		

[25] Simulation_Cycle()

