

Phase 4 Screens Examples

- These screens are for example purposes only. You have the complete freedom for most design aspects (other than the ability to sort)
- The data in these examples might not be consistent with each other and with the initial data provided. **The data is for the purpose of Examples Only**
- Some of the text fields have a drop down next to them. This is not a required feature, merely a implementation choice. If you decide to have a dropdown, ensure that you can add new text manually as well incase the information to be added does not pre-exist in the dropdown menu.
- Your application should not crash if a constraint is broken. An error message popping up or the action not being completed are examples of dealing with constraints not being satisfied.

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		
----------	--	---

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
----------	---------

Cancel

Update

[17] remove_passenger_role()

remove_passenger_role()


personID	p10	
----------	-----	---

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()

