

Air Traffic Controller

Submitted in partial fulfilment of the requirements for Object Oriented Modelling & Design during 7th semester of

Bachelor of Technology in Computer Science & Engineering

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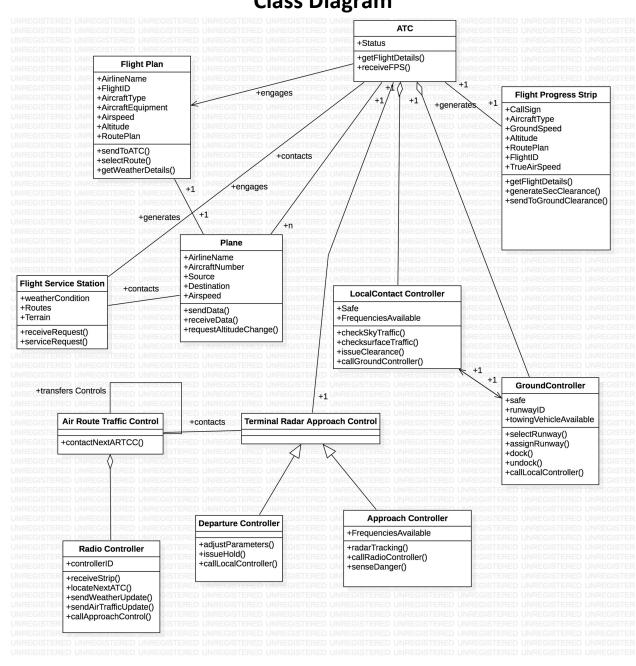
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FACULTY OF ENGINEERING
PES UNIVERSITY

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Air Traffic Controller Class Diagram



CLASS: ATC	
RESPONSIBILITIES	COLLABORATORS
Get Flight Details	Plane, Flight Plan
Receive Weather Condition	Plane
Receive Route	Plane
Receive Terrain	Plane
Get Runway Details	Ground Controller
Get Sky and Surface Traffic	Local Contact Controller

CLASS: Flight Plan		
RESPONSIBILITIES	COLLABORATORS	
Send flight details to ATC	ATC	
Get Weather data	Plane	
Select Route	ATC	

CLASS: Plane	
RESPONSIBILITIES	COLLABORATORS
Send Flight Details to ATC	ATC
Receive Weather Condition	Flight Service Station
Receive Route	Flight Service Station
Receive Terrain	Flight Service Station
Request Change of Altitude	ATC

CLASS: Flight Service Station	
RESPONSIBILITIES	COLLABORATORS
Send Weather Condition	Plane
Send Route	Plane
Send Terrain	Plane

CLASS: Flight Progress Strip	
RESPONSIBILITIES	COLLABORATORS
Get Flight details	ATC
Generate Ground Clearance	ATC
Generate Sec Clearance	ATC

CLASS:Local Contact Controller	
RESPONSIBILITIES	COLLABORATORS
Send Sky Traffic	ATC
Send Surface Traffic	ATC
Issue Clearance	ATC
Communicate with Ground Controller	Ground Controller

CLASS: Ground Controller	
RESPONSIBILITIES	COLLABORATORS
Select Runway	ATC
Assign Runway	ATC
Docking and undocking	Local Contact Controller
Communicate with Local Controller	Local Contact Controller

CLASS: Radio Controller	
RESPONSIBILITIES	COLLABORATORS
Receive Air strip	Air Route Traffic Control
Locate next ATC	Air Route Traffic Control
Send Weather Update	Air Route Traffic Control
Send Air Traffic Update	Air Route Traffic Control
Communicate with Approach Controller	Approach Controller

CLASS: Departure Controller	
RESPONSIBILITIES	COLLABORATORS
Adjust Flight Parameter	Terminal Radar Approach Control
Hold the departure	Terminal Radar Approach Control
Communicate with Local Controller	Local Controller

CLASS: Approach Controller	
RESPONSIBILITIES	COLLABORATORS
Track the Radar	Terminal Radar Approach Control
Sense Danger with the available frequency	Terminal Radar Approach Control
Communicate with Radio Controller	Radio Controller