

Use Case

Use Case Name: Notify Pilots of New Flight Request		ID: UC-2A	Priority: High
Brief Description: This use case describes how the system notifies pilots of new flight request			
Actor: Flight Request System			
Trigger: New Flight Request is submitted by client (described in UC-1 (Create Flight Request))			
Type <input type="checkbox"/> External <input type="checkbox"/> Temporal			
Preconditions: 1. New Flight Request is submitted and confirmed by client 2. Flight Assignment application is available and on-line			
Normal Course 1.0 Notify pilots of new flight request 1. System obtains the flight request 2. System uses the latitude/longitude of the flight area to define the flight proximity region 3. System develops a list of pilots in the flight proximity region 4. System develops price guidelines for the flight based on the characteristics of the flight request 5. System prepares a flight request notification for all pilots in the flight proximity region, including location, requested flight features, price guidelines, and opening/closing date/time of the pilot bidding window. 6. System transmits flight request notification to all pilots in the flight proximity region 7. System stores new flight request notification 8. Pilot dashboards for all pilots receiving the flight notification are modified to include the flight request notification with a bidding window countdown clock.		Information for Steps Flight request Flight location details Pilot locations Flight details Pricing guidelines Flight Request Notification message New Flight Request Notification Record New pilot dashboard notice	

Alternative Course(s):			
Postconditions: 1. New flight request notification record created and stored 2. Pilots in the flight proximity region receive flight notification message 3. Pilot dashboards for the notified pilots are modified			
Exceptions: E1. No pilots are found in the flight proximity region (occurs at step 3) 1. System increases the radius of the distance from the flight location by 25 miles 2. Return to step 2, Normal Course, to recalculate the flight proximity region			
Summary:			
Inputs	Source	Outputs	Source
Flight Request Flight location Pilot locations Flight details Pricing guidelines	Create Flight Request use case Flight request Pilot datastore Flight request Price guideline datastore	Flight Request Notification message New Flight Request Notification record Pilot dashboard update	Pilots Flight Request Notification datastore Dashboard of notified pilots