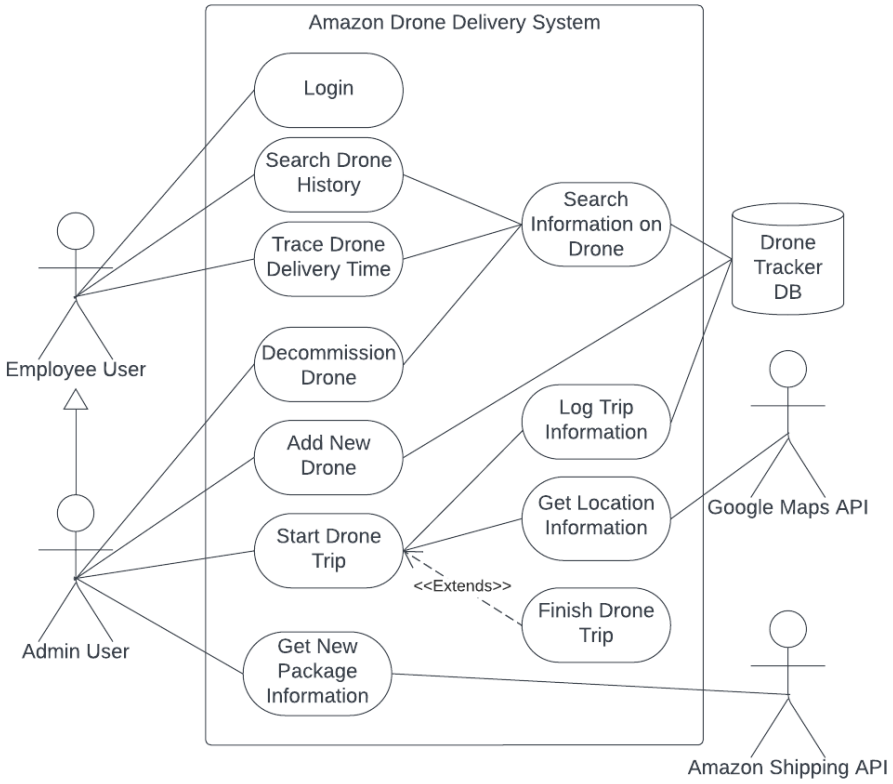
Use Case Diagram:



Summary Case:

	Amazon Drone Tracker Inventory Manager
Use Case ID:	UC-01
Use Case Name:	Start Drone Delivery
User Goal:	To initialize a drone delivery trip
Scope:	The System
Level:	Summary
Primary Actor:	Amazon Warehouse Inventory Specialist
Precondition:	Drone has been added to the system and Specialist has been notified of a new delivery request.
Minimal Guarantee:	The delivery request is logged but the trip is never started
Success Guarantee:	The drone delivery trip has been started to the desired destination
Trigger:	Specialist enters delivery request
Success Scenario:	**Step Action**

	1. User enters into Amazon Warehouse Inventory System on a computer
	2. The user opens into the delivery request application
	3. The system then shows available drones
	4. The drone is then selected and package number entered
	5. Once entered the information is sent to the drone
	6. The drone receives the package
	7.The drone goes out for delivery
Extensions:	**Branching Scenarios**
3A	**Condition:** There are no available drones
	Step Actions
	1. The system informs the user that there are no available drones at the moment
	2. The system then waits for drone then goes goes to main step 4
3B	**Condition:** The package is not available
	Step Actions
	1. The drone never receives package
	2. The drone waits for 5 mins before going back into the system as available
4A	**Condition:** Drone doesn't arrive
	Step Actions
	1. The system informs the user the drone is unavailable
	2. The user goes back to main step 3

Primary Case:

	Amazon Drone Tracker Inventory Manager
Use Case ID:	UC-02
Use Case Name:	Trace Drone Delivery Time
User Goal:	Find the remaining time left in a drone's delivery
Scope:	The System
Level:	Primary
Primary Actor:	Amazon Warehouse Inventory Specialist

Precondition:	Drone has been added to the system and Specialist has been notified to check on the drone
Minimal Guarantee:	The drone is shown, but the time remaining is not
Success Guarantee:	The drone is shown and the delivery time has been displayed
Trigger:	Specialist searches for drone
Success Scenario:	**Step Action**
	1. User enters into Amazon Warehouse Inventory System on a computer
	2. The user opens into the drone tracker software
	3. The system then shows a list of all active drones
	4. The drone is then selected
	5. The time remaining is then displayed for the user
Extensions:	**Branching Scenarios**
3A	**Condition:** The drone is not in the list
	Step Actions
	1. The system shows the user the drone is not in the list of active drones
	2. The system waits for the drone to become active before showing it's travel time
	3. The user then waits for step 3 of the main branch to show the desired drone

	Amazon Drone Tracker Inventory Manager
Use Case ID:	UC-03
Use Case Name:	Trace Drone Delivery Time
User Goal:	To remove a drone from the available usable drones and log its information
Scope:	The System
Level:	Primary
Primary Actor:	Amazon Warehouse Inventory Specialist
Precondition:	Drone has been added to the system and Specialist has been notified to decommission the drone
Minimal Guarantee:	The drone is not found and the system exits the process
Success Guarantee:	The drone has been decommissioned and its attached information logged
Trigger:	Specialist searches for drone

Success Scenario:	**Step Action**
	1. User enters into Amazon Warehouse Inventory System on a computer
	2. The user selects the decommission drones option
	3. The system brings up a search field to find an active drone
	4. The user inputs the drone ID into the search field
	5. The System runs the Search information on drone subfunction UC-4
	6. The System Prompts the user that drone has been found
	7. The User confirms the decommission
	8. The system returns to the home screen
Extensions:	**Branching Scenarios**
3A	**Condition:** The drone is not found in the search of all in-commission drones
	Step Actions
	1. The system shows the user the drone could not be found
	2. The system exits the process
3B	**Condition:** The drone is mid trip and cannot be decommissioned
	Step Actions
	1. The system shows the user the drone is currently busy
	2. The system exits the process

Subfunction Case:

	Amazon Drone Tracker Inventory Manager
Use Case ID:	UC-04
Use Case Name:	Drone information
User Goal:	Search information on drone
Scope:	The System
Level:	subfunction
Primary Actor:	Amazon Warehouse Inventory Specialist
Precondition:	Drone has been added to the system and Specialist has been notified to check on the drone
Minimal Guarantee:	The drone is shown, but the information is blank

Success Guarantee:	The drone is shown and the information is shown as well
Trigger:	Specialist searches for drone
Success Scenario:	**Step Action**
	1. User enters into Amazon Warehouse Inventory System on a computer
	2. The user opens into the drone management software
	3. The system then shows a list of all drones
	4. The desired drone is then selected
	5. The informations about drone is then shown to the user
Extensions:	**Branching Scenarios**
3A	**Condition:** The drone is not in the list
	Step Actions
	1. The system shows the user the drone is not in the list
	2. The drone is then located in the warehouse
	3. The user then adds the drone to the warehouse drone management software
	4. The user now see the drone with blank information