1. Start the engine
2. Control the lock in the car
3. Trigger panic alarm
4. Locate position of the car
5. Receive data of the car video recorder

Use case: Input Mail Trucks   
 Summary: the purpose of this is to bring returns to the warehouse.  
 Actor: Warehouse, financial System and mailer/customer  
 Precondition: there are some returns that actually need to go to the warehouse for refurbish.  
 Main sequence:   
1. Mail trucks are sent from mailer within returns to the warehouse.  
2. Warehouse receives and accepts the returns.  
3. Returns go through a manual inspection  
4. Refurbish products and label with a specific barcode’  
5. Warehouse send a refund grant request to main Amazon financial System.  
 Alternative sequence:   
Step 2: If some of the returns are not accepted, they are shipped back to the customers.

Use case: Start the engine

Summary: the purpose of this is to iginite the engine on the car.

Actor: user, control system, mobile phone, action.

Precondition:

1. The car is automatically set to be ready for activating, which means the car will charge up as long as we send a starting message to it.

Main sequence:

1. User open the app and enter into the interface of activating the engine of the car.
2. Mobile phone receives the command from user.
3. Mobile phone sends this command to control system through wifi. In this case is the WIFI module of microcontroller receives the command.
4. Microcontroller sends the operating message to engine.

Alternative sequence:

Step 2: There are two selections on sending command from mobile phone: start the engine and stop the engine.

Step 4: If the message is sending to start the engine, just start the engine. If the message is saying to stop the engine, just stop the engine.

Use case: Control the lock in the car

Summary: The system control the door’s opening and closing

Actor: user, control system, mobile phone, engina.

Precondition:

1. The car has been activated which means the car’s engine starts.

Main sequence:

1. User open the app.
2. User click the unlock button.
3. Mobile phone sends this command to the control system through wifi.
4. The microcontroller receive the signal and command.
5. The car is unlocked.

Alternative sequence:

Step 2:User click the lock button.

Step 5: The car is locked.

Use case: Trigger panic alarm

Summary: when the door is opened by hand which will trigger the panic alarm

Actor: user, control system, mobile phone, alarm.

Precondition:

1. The car has been activated which means the car’s engine starts.
2. Also the lock does not open by app.

Main sequence:

1. User open the app.
2. The app will run at the backend.
3. When the car does not open by app which triggers the panic alarm.

Alternative sequence:

Step 3: The car unlocked by app which will not trigger the panic alarm.

Use case: Locate position of the car

Summary: user can locate the car’s location by wifi.

Actor: user, control system, mobile phone, GPS.

Precondition:

1. The has been activated which means the car’s engine starts.
2. User download the app.

Main sequence:

1. User open the app.
2. User click the location button.
3. User can see the distance between car and self.

Use case: Receive data of the car video recorder

Summary: the video record module will record video.

Actor: user, control system, mobile phone, video recorder.

Precondition:

1. The car has been activated which means the car’s engine starts.
2. User download the app.

Main sequence:

1. User open the app.
2. User click the video button.
3. User can see the recorded video.