



A Patient object is the input that the AlertGenerator class is intended to receive. It then compares the patient's data to thresholds and reference ranges that are recorded in the DataStorage (which they aren't shown in this uml diagram). The AlertGenerator creates a new Alert object if any values exceed these predetermined thresholds or satisfy alert criteria.

Inorder to trigger alert: The AlertGenerator instantiates a new Alert and then calls its own triggerAlert(Alert) function with the newly created Alert passed in.

The AlertManager then takes over when it comes to managing the Alert. So it uses the Alert and Doctor classes inorder to sent the correct alert to the docor needed in this spesific alert situation as It uses its static sendAlert(alarm) function to send the alarm to relevant recipients via dashboard notifications, emails, or SMS. These recipients mostly consist of the patient's data and sometimes other healthcare providers