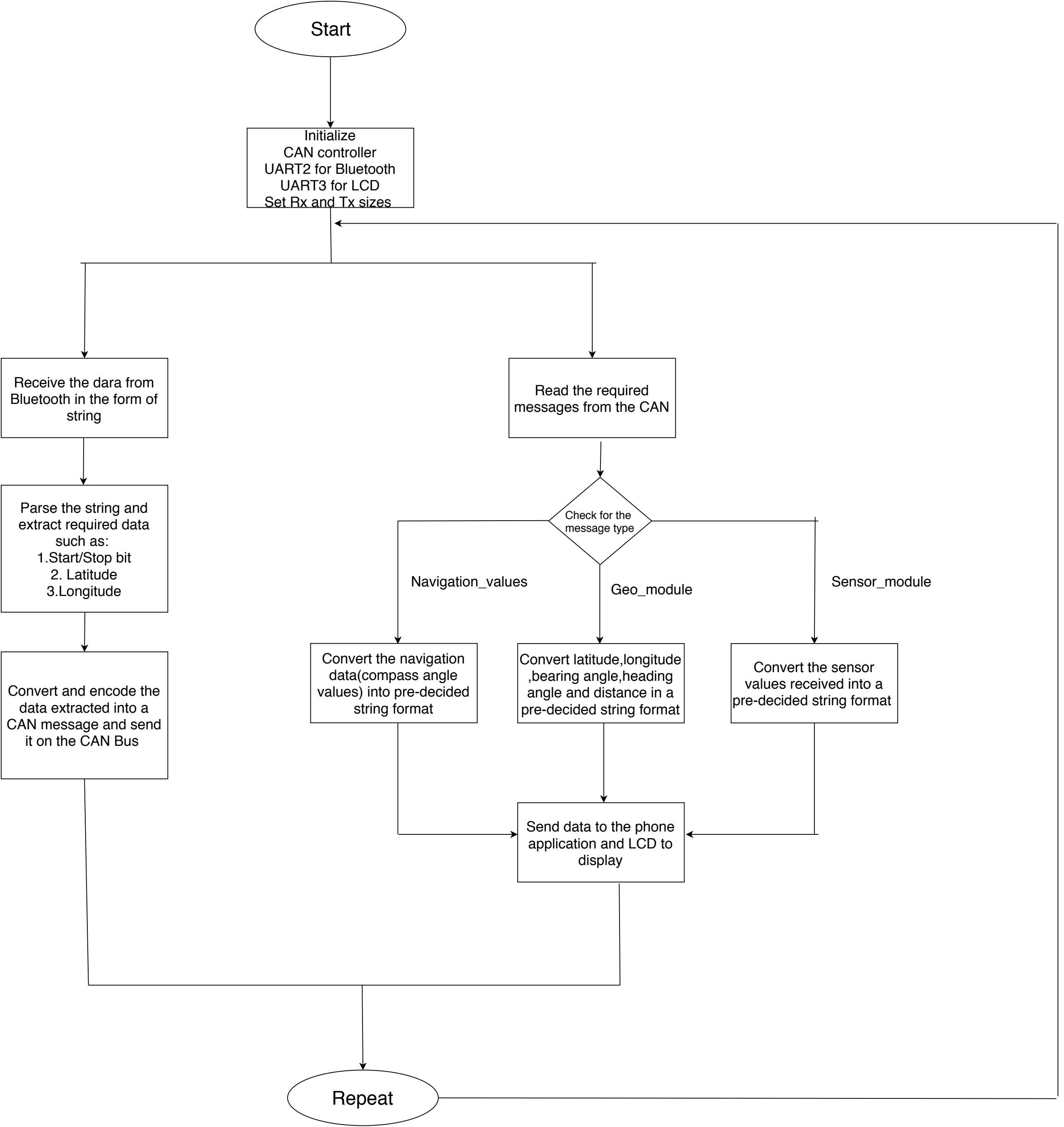
Start
Initialize
CAN controller
UART2 for Bluetooth
UART3 for LCD
Set Rx and Tx sizes
Receive the dara from Bluetooth in the form of string
Parse the string and extract required data such as:
1.Start/Stop bit
2. Latitude
3.Longitude
Convert and encode the data extracted into a CAN message and send it on the CAN Bus
Read the required messages from the CAN
Check for the message type
Navigation_values
Geo_module
Sensor_module
Convert the navigation data(compass angle values) into pre-decided string format
Convert latitude,longitude ,bearing angle,heading angle and distance in a pre-decided string format
Convert the sensor values received into a pre-decided string format
Send data to the phone application and LCD to display
Repeat