Cyclist Aid flowchart Q

Vanessa is developing a multifunctional computer system to aid cyclists.

The system will:

- be controlled by a small multifunctional device similar in size to a smartphone
- contain a touch screen and a number of different sensors
- make use of a number of different wired and wireless connection methods
- be mounted on the handlebars of the bicycle
- connect the device to front and rear lights.

Vanessa's system will use online map data to calculate routes for the user but it does not have its own internet connection.

The system is able to use Wi-Fi to connect to public hotspots.

The system will use a touch screen interface and will use sensors to detect when the bicycle is moving.

The system must:

- detect user input (touching the screen)
- not allow the screen to be unlocked when touched if the bicycle is moving
- allow the screen to be unlocked when touched if the bicycle is not moving
- lock the screen if no user input is detected
- lock the screen when the bicycle is moving
- run continuously once started.

Draw a flow chart to show the logic of the system.

Use this space to draw your flow chart.

(4)