

The Mobile Device Solution in the Warehouse Environment

Environment:

Factory that produces concrete elements has a huge warehouse. Most of these products must be stored before they are delivered. In the warehouse area workers use trucks/vehicles to transport the products.

Needs for IT:

Different types of products are classified and each product must be identified.

Workers need exact location information when products need to be transferred. Also the information of correctness of placement is an added value.

The Warehouse Management System consists the database where data is stored and can be shared.

Benefits/aims:

To minimize the extra costs caused by incorrect placement of shifted products.

Solution:

The automated functions that give needed information for users. Shared information between users, The Mobile Device Application and the Warehouse Management System. System consists of Mobile device Application with gps localisation, wlan and the Warehouse Management System based on database server.

Requirements:

The communication between suitable mobile device and warehouse management system (database) must be created.

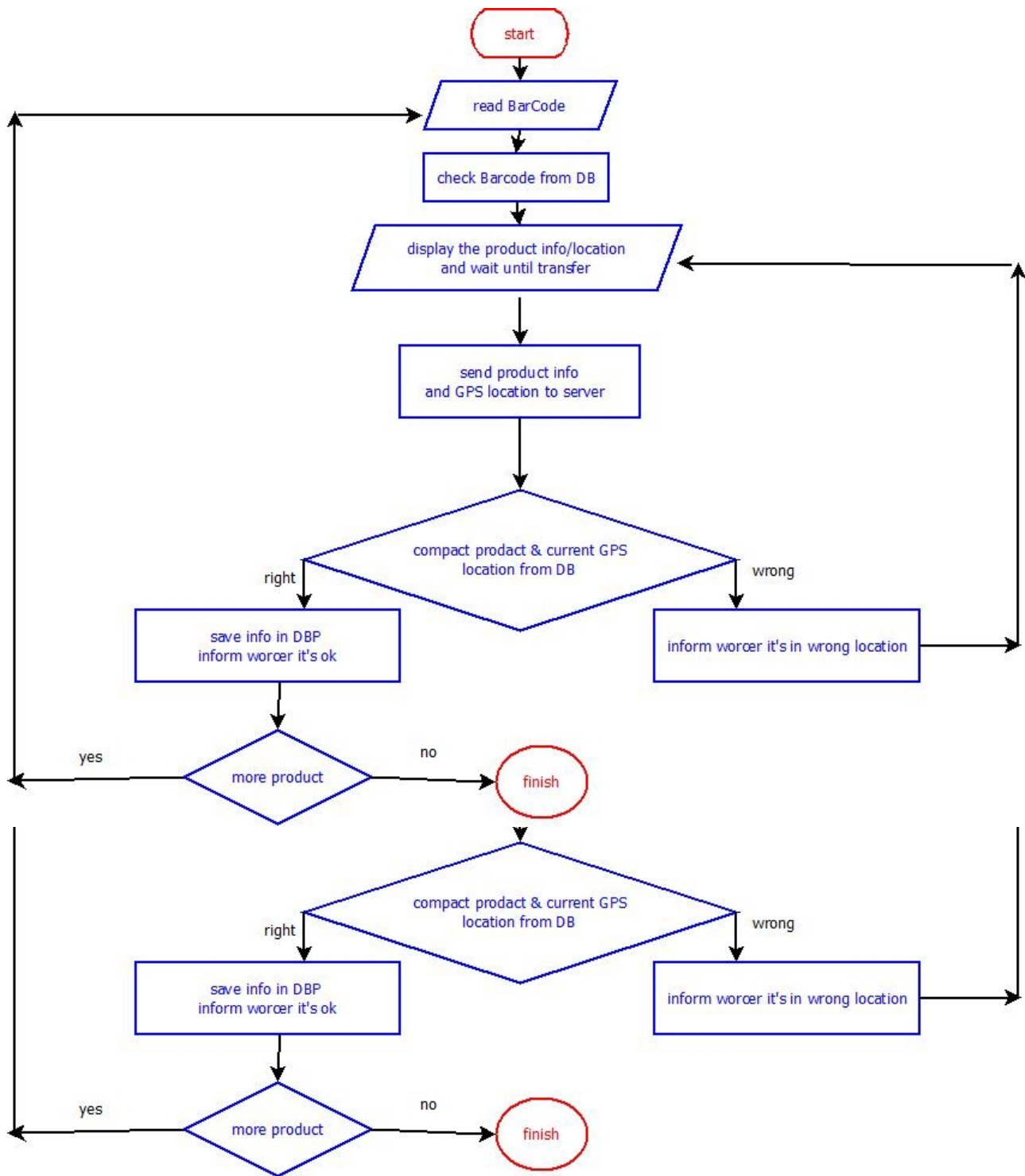
User Interface for the end user of mobile the device must be done.

GPS localisation by using existing properties of mobile device.

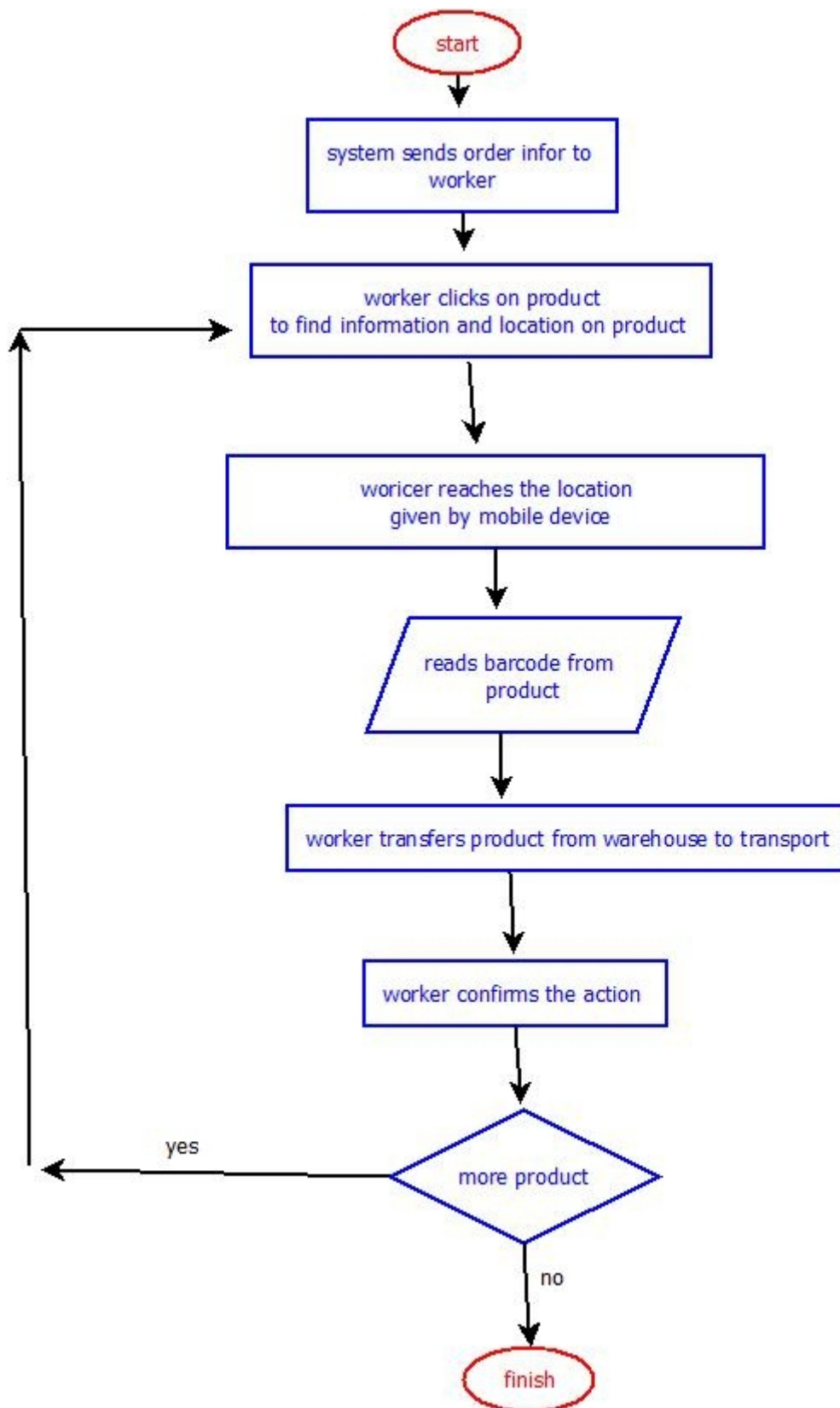
Messages between mobile device and database system.

Design:

Module 1. Transferring the product(s) from the factory to the warehouse.



Module 2. Transferring the product(s) from warehouse to transport (logistics) area.



Database tables of the Warehouse Managment System

category
° ID
° Name
° Location

prodact
° ID
° Name
° Category
° Barcode

Worker
° ID
° Name
° Mobile Device

WareHause
° ID
° Product ID
° Worker ID

Orders
° ID
° Order №

Order
° ID
° Prodact ID