Smart Store Project – Software System

Part 1: Cart Software: order system:

The part of the project which enables the user to order products and track them online, it contains two parts:
1. Website: web application to receive order, right now hosted locally.
Achieved Tasks
Home page, category page, product page, checkout page, information pages, search page.
Remaining Tasks:
* After a successful order generating qr-code, include it in the email sent to the customer.
* Tasks related to delivery method, pick up from the nearest smart store.
* Linking the stocks of many smart stores to give the customer the option to choose from which store he will pick up his order.

Completion Percentage: 85%.
Remaining time: 5-7 days work.

2. Mobile Application: not started yet. A very general estimate that it takes 2 months to be completed based on ready templates that interact with the API of the website.

Part 2 : The Store management:

The part from which the store manager can manage products, categories, stock, information pages, see orders, reports, manage currencies, users, permissions per user, manage taxes, stock and order statuses.
The admin can also assign products to units, shelf, bent, add or increase stock, the process should be by scanning bar-code.

Achieved Tasks:
Managing products, categories, manufacturers, information pages, simple reports, order dashboard, taxes.

Remaining Tasks:
Assigning products to bents, managing units, shelves, bents, handling stock increases, decreases, handling expiration dates while entering stocks. Periodically checking the stock and giving reports to the admin about the stock status,
Sending notification about the stock, later sending SMS notifications to the store manager, reports and notification about expired soon products.
Handling notification about orders(delivered or not) and making stock changes based on the data coming from PLC.

Completion Percentage: 65%
Remaining Time : 4-5 weeks.

Part 3: Connectivity between the software system and the PLC:
An order is received from the customer(or by scanning QR code in front of the machine), a notification is sent from the server about this order to a program (a connector) that prepares this data and sends it to the PLC (because there is not direct connection between the server and the PLC), and waits for a signal from that the order has been delivered or not, and when the notification comes from the PLC it handles it and sends it to the Store Management software to make changes on the stock accordingly.

The program that communicates with the PLC has been written.
Remaining Tasks:
Testing the program above, writing the code for sending notifications from the server to the connector program with the PLC, handling incoming notifications from the connector program.

Completion Percentage: 40%
Remaining Time : 3-4 weeks.