Context diagram

This diagram shows the Context level DFD of the Threads & Beads proposed system. The input such as new order, garment design, and garment assembly into the T&B system, comes from the external entities namely Customer, Designer, and Seamster respectively. The output from the T&B system goes to the mentioned external entities.
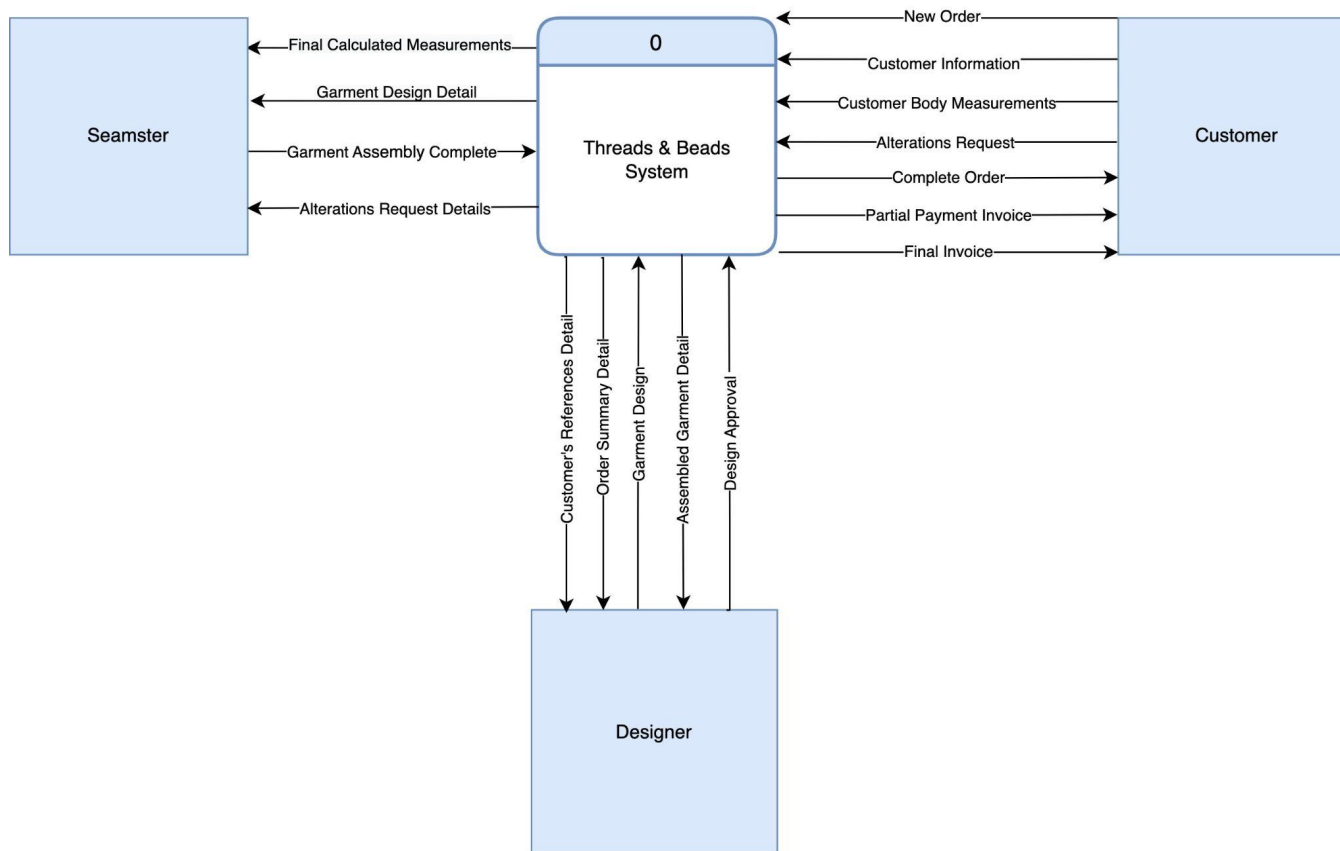

Figure 1 - Context level DFD diagram.

Level 0 diagram

The level 0 diagram shows the same entities, inputs, and outputs as the context level but provides more information about what is inside the system and how the data goes from one process to another. Level 0 has four main subprocesses, which are the decomposition of the central process shown in the diagram above.
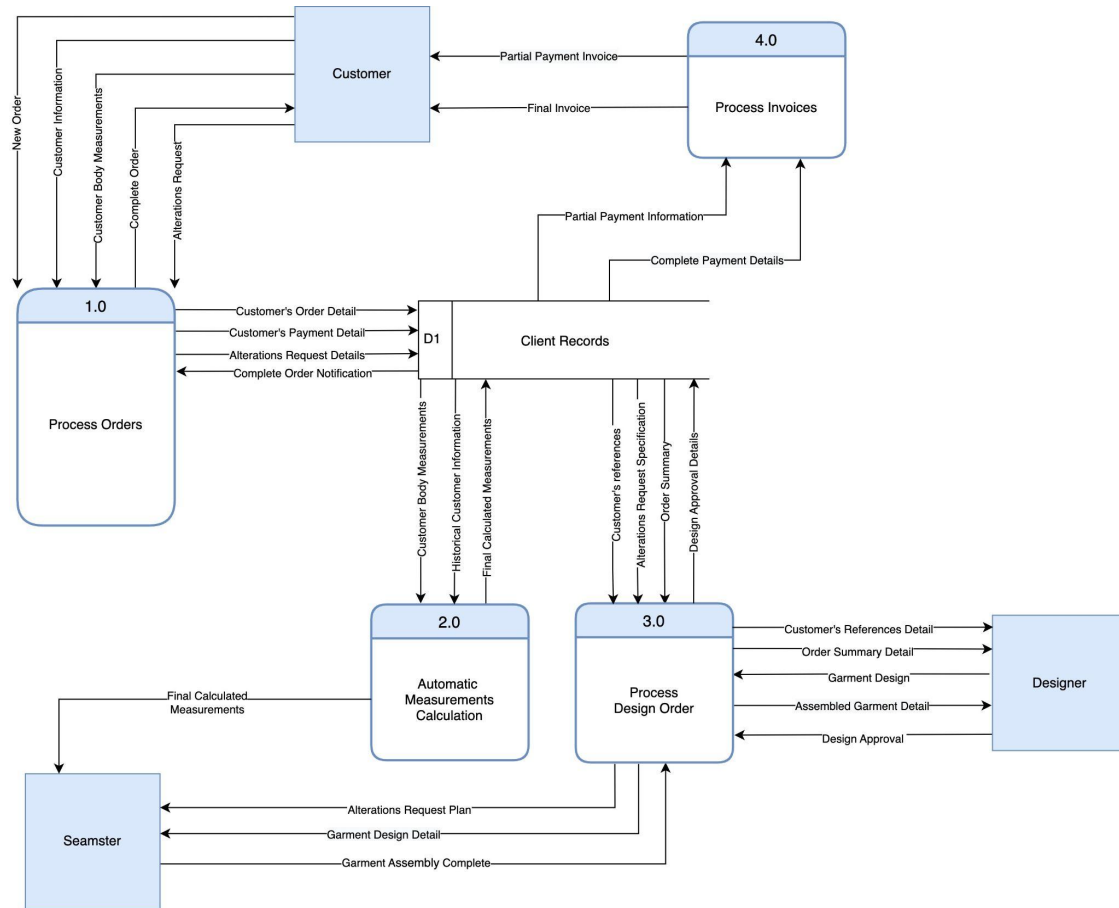
Figure 2 - Level 0 DFD diagram.

Child diagram

Each process mentioned on level 0 DFD has a child diagram, as shown below:

1. Process order child diagram

This diagram shows the Level 1 DFD for processing an order. The customer places an order at the T&B store; the system will capture the details of the customer's name, address, phone number, email address, and body measurements. If the customer needs alterations, the details related to it will also be stored in the database. When the garment is ready, the system will notify the order has been completed.
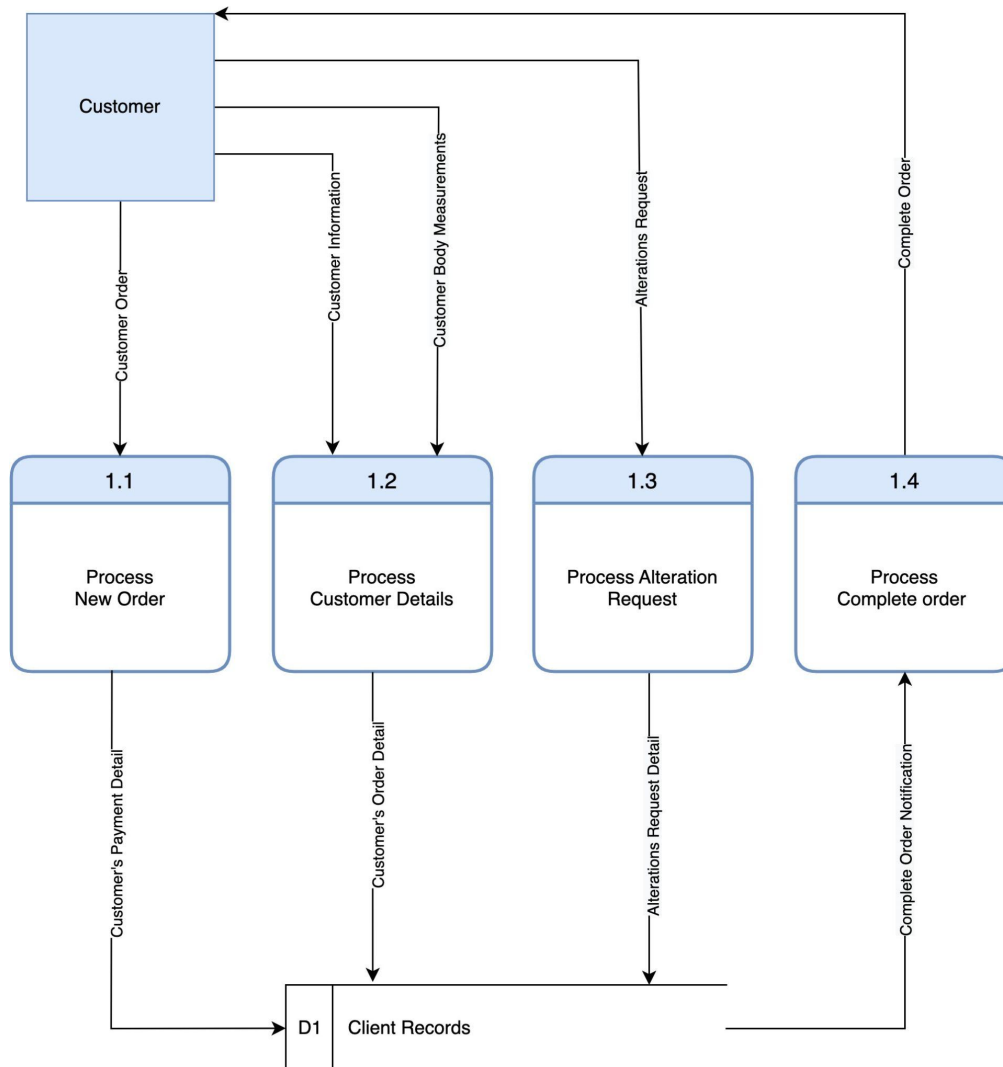

Figure 3 - Process Order Level 1 DFD

2. Automatic measurements calculation child diagram

This child diagram explains the inside of process 2, the calculation of the automatic measurement. As is shown in the figure below, the process must have the information related to the body measurement and the historical records from the customer, to be able to create the final measurement automatically.
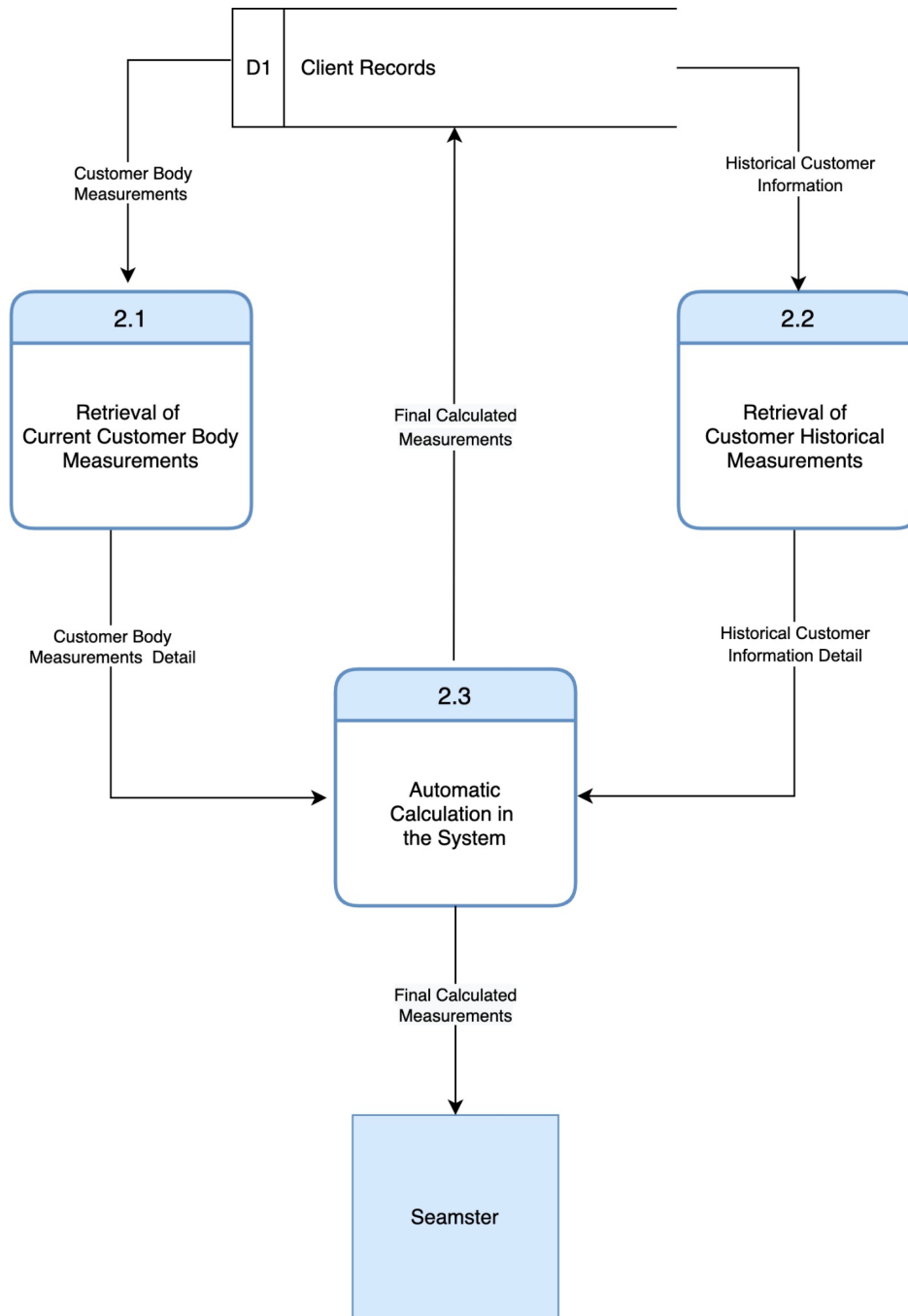

Figure 4 - Automatic measurements calculation level 1 DFD.

3. Designing order child diagram

This Child diagram explains the inside of process number 3, the designing order child diagram. As shown in the figure, firstly the customer's references and order summary are used for sketching the garment, after approval from the customer it goes near the seamster, and after sewing the garment it goes for inspection of the garment then the customer makes trails for the garment if there are any alterations or modifications it undergoes for alteration to the seamster.
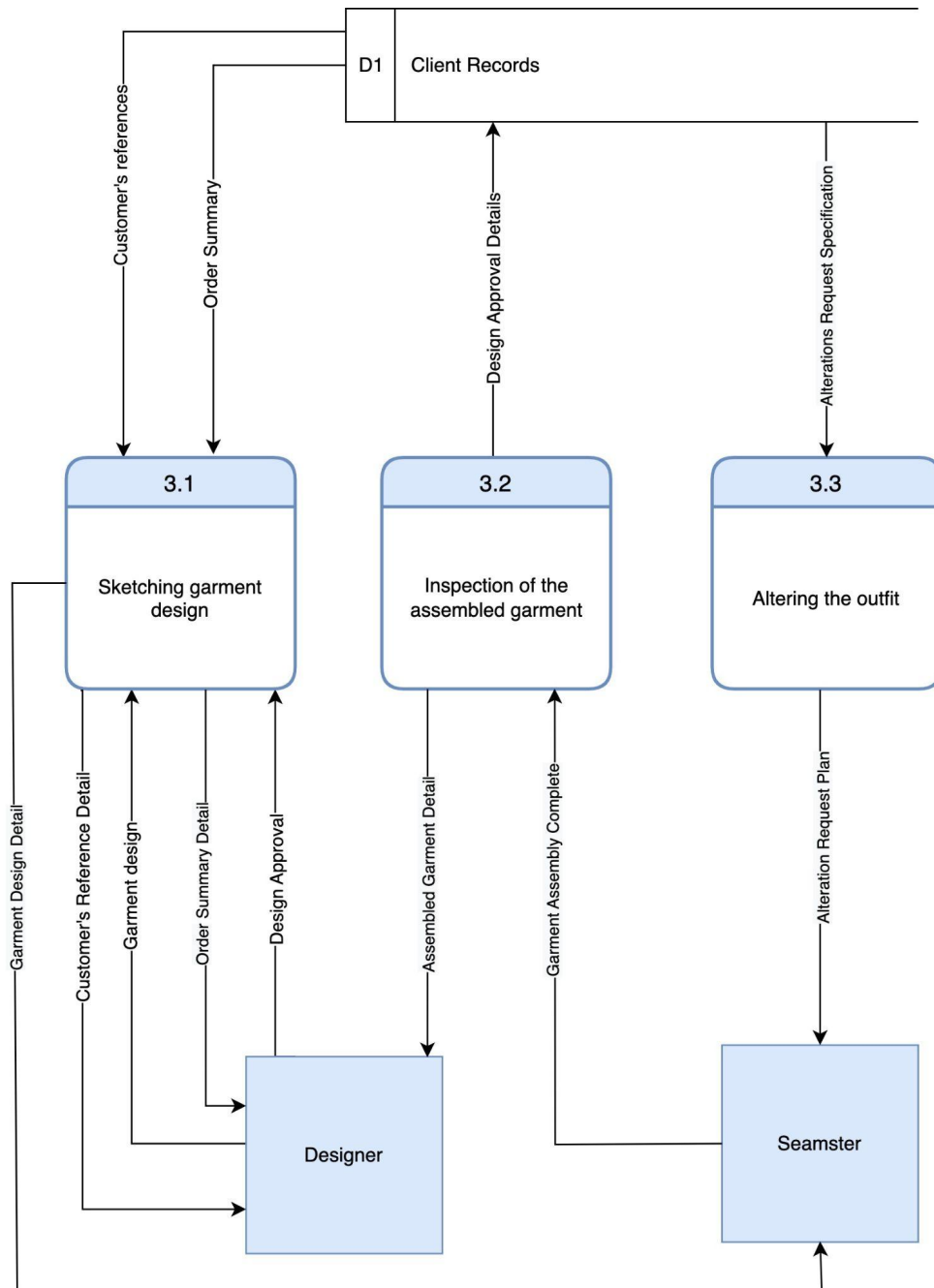

Figure 6 - Designing order level 1 DFD.

4. Process Invoice child diagram

This diagram shows the Level 1 DFD for creating an invoice. Customers must make a partial payment when placing an order with T&B. The shop manager will give the customer their partial invoice, which was generated by the system. The system will produce the final invoice once the order is prepared, and the last payment has been made.
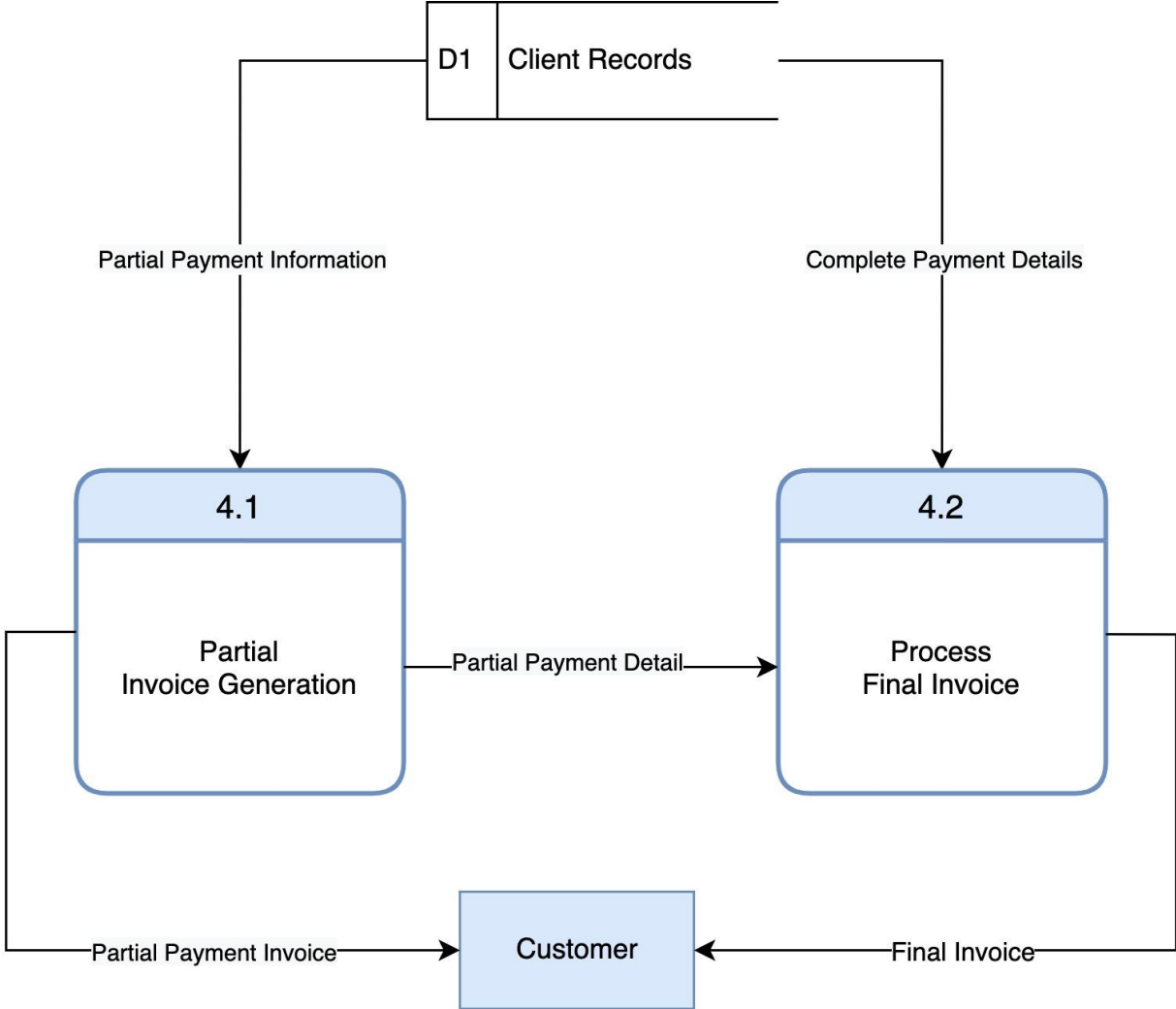

Figure 6 - process invoice level 1 DFD.