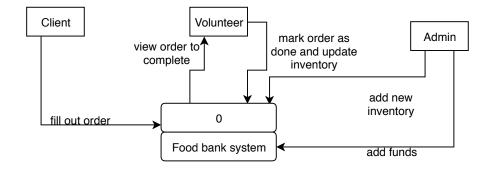
PROGRESS REPORT 3

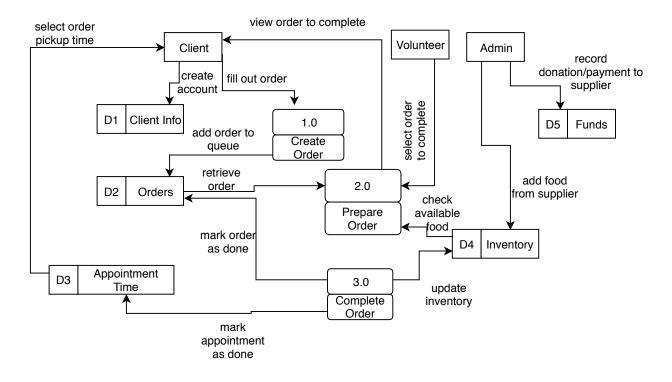
Functional Design (HIPO diagram, SQL queries and DFD diagrams)

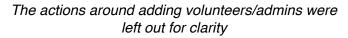
Rahmanta Satriana 30044533 Xin Yan Xie 10160975 Alan Fung 10083599

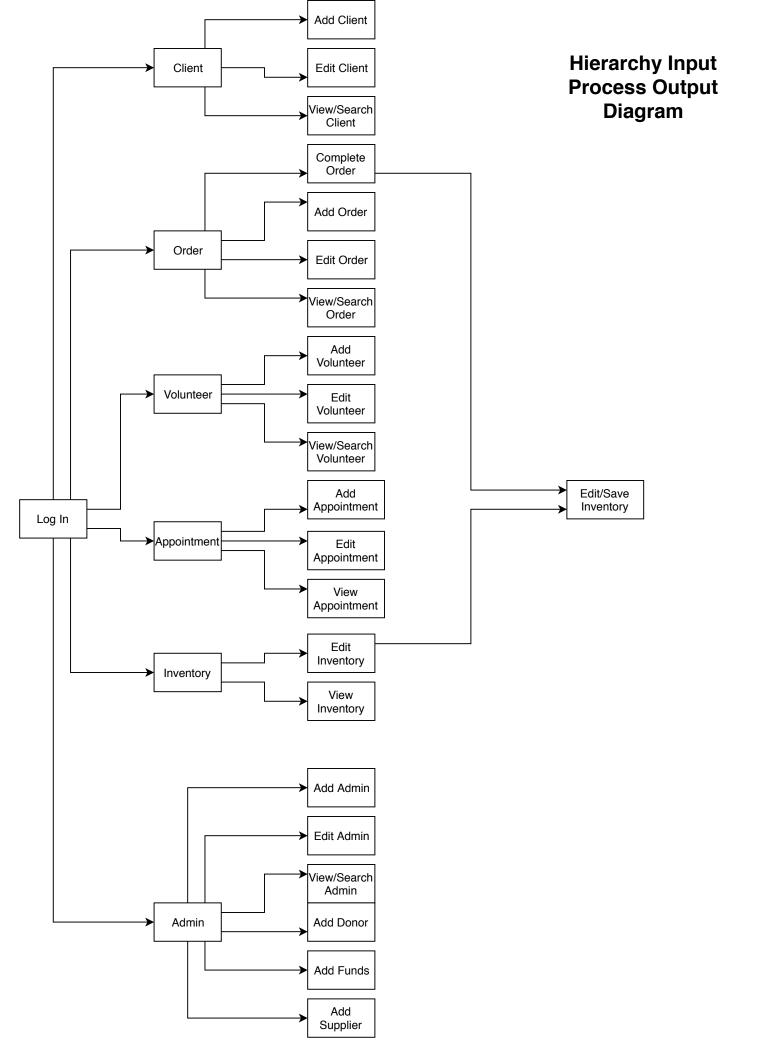
Context Diagram



Level-0 Data Flow Diagram







HIPO Pseudo Queries

Function: Add Client Inputs: @ID, @Name, @Income Outputs: None Pseudocode: Connect to the database Query = INSERT INTO Client(@ID, @Name, @Income); Parse Query Execute Query Close connection to the database

Function: Edit Client Inputs: @ID, @Name, @Income Outputs: None Pseudocode: Connect to the database Query = UPDATE Client SET (Name = @Name, Income = @Income) WHERE (ID = @ID); Parse Query Execute Query

Close connection to the database

Function: View/Search Client Inputs: @ID Outputs: ID, Name, Income Pseudocode: Connect to the database Query = SELECT * FROM Client WHERE (ID = @ID); Parse Query Execute Query Close connection to the database Function: Complete Order Inputs: @ID, @Picked Up **Outputs: None** Pseudocode: Connect to the database Query = UPDATE RequestForm SET (Picked Up = @Picked Up) WHERE (ID = @ID);Parse Query **Execute Query** Close connection to the database Function: Add Order Inputs: @ID, @Priority Level, @No. of Calories, @Volunteer ID, @Client ID, @Picked Up **Outputs:** None Pseudocode: Connect to the database Query = INSERT INTO RequestForm(@ID, @Priority Level, @No. of Calories, @Volunteer ID, @Client ID, @Picked Up); Parse Query **Execute Query** Close connection to the database Function: Edit Order Inputs: @ID, @Priority Level, @No. of Calories, @Volunteer ID, @Client ID, @Picked Up **Outputs: None** Pseudocode: Connect to the database Query = UPDATE RequestForm SET (Priority Level = @Priority Level, No. of Calories = @No. of Calories, Volunteer ID = @Volunteer ID, Client ID = @Client ID, Picked Up = @Picked Up) WHERE (ID = @ID); Parse Query **Execute Query** Close connection to the database

Function: View/Search Order Inputs: @ID Outputs: ID, Priority Level, No. of Calories, Volunteer ID, Client ID, Picked Up Pseudocode: Connect to the database Query = SELECT * FROM RequestForm WHERE (ID = @ID); Parse Query Execute Query Close connection to the database

Function: Add Volunteer Inputs: @ID, @Name, @Phone Number, @Availability, @Manager ID Outputs: None Pseudocode: Connect to the database Query = INSERT INTO Volunteer(@ID, @Name, @Phone Number, @Availability, @Manager ID); Parse Query Execute Query Close connection to the database

Function: Edit Volunteer
Inputs: @ID, @Name, @Phone Number, @Availability, @Manager ID
Outputs: None
Pseudocode:
Connect to the database
Query = UPDATE Volunteer
 SET (Name = @Name, Phone Number = @Phone Number, Availibility = @Availability,
 Manager ID = @Manager ID)
 WHERE (ID = @ID);
Parse Query
Execute Query
Close connection to the database

Function: View/Search Volunteer Inputs: @ID Outputs: ID, Name, Phone Number, Availability, Manager ID Pseudocode: Connect to the database Query = SELECT * FROM Volunteer WHERE (ID = @ID); Parse Query Execute Query Close connection to the database

Function: Add Appointment Inputs: @ID, @Time, @Volunteer ID, @Client ID Outputs: None Pseudocode: Connect to the database Query = INSERT INTO Appointment(@ID, @Time, @Volunteer ID, @Client ID); Parse Query Execute Query Close connection to the database

Function: Edit Appointment Inputs: @ID, @Time, @Volunteer ID, @Client ID Outputs: None Pseudocode: Connect to the database Query = UPDATE Client SET (Time = @Time, Volunteer ID = @Volunteer ID, Client ID = @Client ID) WHERE (ID = @ID); Parse Query Execute Query Close connection to the database

Function: View Appointment Inputs: @ID Outputs: ID, Time, Volunteer ID, Client ID Pseudocode: Connect to the database Query = SELECT * FROM Appointment WHERE (ID = @ID);Parse Query **Execute Query** Close connection to the database Function: Edit Inventory Inputs: @Barcode, @Name, @Quantity, @Expiry Date, @Nutritional Value **Outputs:** None Pseudocode: Connect to the database Query = UPDATE Food SET (Name = @Name, Quantity @Quantity, Expiry Date = @Expiry Date, Nutritional Value = @Nutritional Value) WHERE (Barcode = @ Barcode); Parse Query **Execute Query** Close connection to the database

Function: Edit/Save Inventory Inputs: @Barcode, @Quantity Outputs: None Pseudocode: Connect to the database Query = UPDATE Food SET (Quantity = @Quantity) WHERE (Barcode = @ Barcode); Parse Query Execute Query Close connection to the database

Function: View Inventory Inputs: @Barcode Outputs: Barcode, Name, Quantity, Expiry Date, Nutritional Value Pseudocode: Connect to the database Query = SELECT * FROM Food WHERE (Barcode = @ Barcode); Parse Query Execute Query Close connection to the database

Function: Add Admin Inputs: @ID, @Name, @Phone Number Outputs: None Pseudocode: Connect to the database Query = INSERT INTO Admin(@ID, @Name, @Phone Number); Parse Query Execute Query Close connection to the database

Function: Edit Admin Inputs: @ID, @Name, @Phone Number Outputs: None Pseudocode: Connect to the database Query = UPDATE Admin SET (Name = @Name, Phone Number = @ Phone Number) WHERE (ID = @ID); Parse Query Execute Query Close connection to the database

Function: View/Search Admin Inputs: @ID Outputs: ID, Name, Phone Number Pseudocode: Connect to the database Query = SELECT * FROM Admin WHERE (ID = @ID); Parse Query Execute Query Close connection to the database

Function: Add Donor Inputs: @ID, @Name, @Phone Number, @Email Outputs: None Pseudocode: Connect to the database Query = INSERT INTO Donor(@ID, @Name, @Phone Number, @Email); Parse Query Execute Query Close connection to the database

Function: Add Funds Inputs: @Address, @Funds Outputs: None Pseudocode: Connect to the database Query = UPDATE FoodBank SET (Funds = Funds + @Funds) WHERE (Address = @Address); Parse Query Execute Query Close connection to the database

Function: Add Supplier Inputs: @Name, @Phone Number, @Email Outputs: None Pseudocode: Connect to the database Query = INSERT INTO Supplier(@Name, @Phone Number, @Email); Parse Query Execute Query Close connection to the database