# Ogha Inventory Management

## Requirements

### Client Interview –

Me: Hello ma’am, how are you doing today?

Client: I am doing good thanks! your CS teacher told me that you would be willing to help me out on an app I wanted to create?

Me: Yes of course! Can you tell me what exactly you have in mind?

Client: I need a software to maintain inventory of my fashion brand – Ogha Apparel

Me: Okay great, so what kind of application do you have in mind? Like what do you want the basic structure and type to be like?

Client: The application shall provide below features:

1. Need to create an account for myself in the application.
2. My information shall not be shared with anyone.
3. I shall have a page for the following,
   1. Inventory
   2. Expenses
4. In the inventory page, I shall have below:
   1. Button to create a new inventory category.
   2. View existing inventory.
5. In new inventory category, I shall be able to
   1. Create a new inventory category.
   2. I shall be able to create a dress with below details,
      1. Name
      2. Manufacturing cost
      3. Selling cost
      4. Sizes

Shall show sizes from XS – XXXL

For each size I shall be able to enter a no of available pieces

If no numbers entered the number of available pieces shall be treated as 0

1. In View inventory page
   1. It shall show all inventory categories.
   2. When I click on one inventory, it shall show all dresses.
   3. When I click on dress, it shall show all details.
   4. I shall be able to edit details and store again.

Me: Okay I see, so something that helps you log your data. You mentioned an account, would you be interested in a login system through which you can share your designs of choice along with your transactions? And can you brief me about what you want me to include in this system?

Client: Yes, I want to have a feature to share a dress with given email id. The dress pic along with selling cost shall be sent to client email id. But this is not a core feature requirement. It is nice to have.

Me: alright so another thing I would like to discuss about is the features about this app. What tools and pages would you like to add in this app that you missed out on previously?

Client: I have mentioned all the pages and features needed on each page above.

Me: Okay, so last question, where would you want me to store the details of each user?

Client: I want you store my account in your system and passwords shall be protected

Me: Okay that makes sense. That’s all from me for now. Do you have any feature in mind we haven’t talked about?

Client: The above feature list will be sufficient or first version. After I see a demo, I can share future enhancements.

Me: I see. I have a lot of information to think about. I would probably have to meet once again when I have more questions about the more minor details, is that okay?

Client: Yes, no problem! You can talk to me anytime.

## Design

### Screen design

Based on customer requirements, below UI screens are designed and shown to customer.

A screenshot of a login form

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A screenshot of a login form

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A screenshot of a computer

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### Database design

Based on the inventory management data to be stored, the storage has been divided into 3 tables.

OIM\_USERACCOUTNS(USERNAME **VARCHAR**(25) **PRIMARY** **KEY**, FIRSTNAME **VARCHAR**(50) **NOT** **NULL**, LASTNAME **VARCHAR**(50) **NOT** **NULL**, ADDRESS **VARCHAR**(250) **NOT** **NULL**, EMAILID **VARCHAR**(150) **NOT** **NULL**, PHONENUMBER BIGINT(20) **NOT** **NULL**, PASSWORD **VARCHAR**(30) **NOT** **NULL**);

* Accounts table stores user account details. This data will be used to verify user login.
* New accounts registered will be stored in this table.

OIM\_INVENTORY\_CATEGORY(USERNAME **VARCHAR**(25),CATEGORY **VARCHAR**(25) **PRIMARY** **KEY**, YEAR **int**, SEASON **VARCHAR**(15),**FOREIGN** **KEY** (USERNAME) **REFERENCES** OIM\_USERACCOUTNS(USERNAME));

* Category table contains the details of a single category.

OIM\_INVENTORY\_ITEMS( USERNAME **VARCHAR**(25),CATEGORY **VARCHAR**(25), ITEMNAME **VARCHAR**(50) **PRIMARY** **KEY**, PRODUCTION\_COST **INT**, SELLING\_COST **INT**,SIZEXS\_AVAIL **INT**, SIZEXS\_SOLD **INT**, SIZES\_AVAIL **INT**, SIZES\_SOLD **INT**, SIZEM\_AVAIL **INT**, SIZEM\_SOLD **INT**, SIZEL\_AVAIL **INT**, SIZEL\_SOLD **INT**,SIZEXL\_AVAIL **INT**, SIZEXL\_SOLD **INT**, SIZEXXL\_AVAIL **INT**, SIZEXXL\_SOLD **INT**, **FOREIGN** **KEY** (USERNAME) **REFERENCES** OIM\_USERACCOUTNS(USERNAME), **FOREIGN** **KEY** (CATEGORY) **REFERENCES** OIM\_INVENTORY\_CATEGORY(CATEGORY));

* Category items table captures details of each item in the category including selling and production cost, each size availability and sold item.
* From the above data profit can be calculated.

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### Data Flow

#### Login DFD

A diagram of a login

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#### Registration DFD

A diagram of a software flowchart

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#### Catalogue DFD

A diagram of a diagram

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#### Catalogue Item DFD

A diagram of a product

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