



# Value Village

**10/20/2022**  
**CIS9590 Group 4**

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# Project Summary

- ❖ Joe Schmoe owned a brick and mortar thrift store, Value Village, that primarily sells clothes. Due to a global pandemic drastically decreasing foot traffic - Joe was forced to close his physical store and move everything into storage as he could no longer afford rent.
- ❖ Joe reached out to our team for help setting up an online presence, and to revive his brand - this time with intentions to go national across the U.S.
- ❖ **Our team will help Joe re-connect with local customers and expand nationally by modernizing the store's technological reach.**



# Systems Description

## Inputs (User Interactions and Adding Data)

- ❖ Value Village will implement an electronic website where customers can input their information and make orders. The company's website is accessible via laptops, mobile devices, and/ or tablets. **Inputs include: login forms (name, email, phone number), order selections (product, quantity), and checkout info. (address).**
- ❖ Our user-friendly website will allow customers to browse through and make searches for whatever types of clothes available. Before customers can make a purchase, they must be registered (sign-up required).

# Systems Description

## Data Processing & Handling

- ❖ Once customers input their information, order details will be generated saved into the database.
  - Google BigQuery, Microsoft Access, Microsoft SQL Server.
- ❖ The main type of data in the DBMS will be customer and inventory data.
- ❖ For querying, transforming, and any adjustments to the database will primarily be made using SQL.
  - Inner/Outer Joins, and Aggregate Functions like AVG, SUM, MIN, MAX

# Systems Description

## Outputs (Database Updates and Reports)

- ❖ **New data** will be added in the database when a new customer is registered. This also follows for when new products are added to the website.
- ❖ Data will be **updated** when customers make changes to their account information or when item quantities are adjusted (products sold).
- ❖ Our overall system will allow us to make reports for analysis on: sales data, web data, and customer demographics.



# System Goals

## User Friendly Website

Designing our website for customer convenience so the customers can find the information they need quickly and easily on any device.

## Minimizing the management costs

Automation of eCommerce businesses can assist in minimizing the management cost at a significant level.

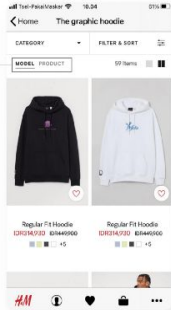
## Increase Sales

Increasing sales by 30% in the first year and 50% by the consecutive year.

## Customer support

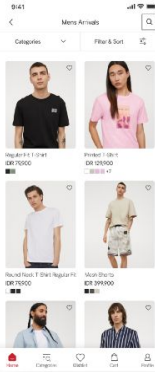
Improve customer satisfaction through better services

## Before

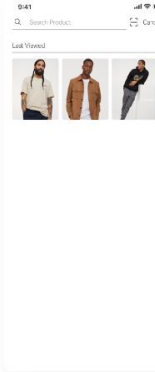


Removing the separate product tab and model tab

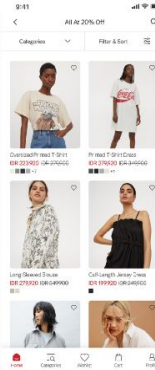
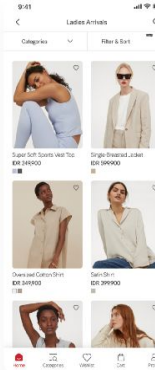
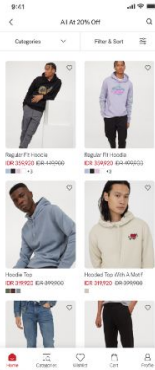
## After



Now you can search in item page



Search the clothes you want to cop



## ❖ Systems Design / Menu Hierarchy

- Brand
- Marketing
- Navigation
- Usability
- User Interface
- Accessibility

## Functional

- ❖ The system will allow the user to create a new account and log in to a previously created account
- ❖ The system will allow the user to search for clothing to buy
- ❖ The system will allow the user to add clothing to their cart
- ❖ The system will allow the user to add a payment method and checkout

## Non-Functional


- ❖ After a user clicks a button, the system will proceed to the next link within two seconds
- ❖ The website can handle a traffic of 2000 users at one time, even during sales and peaked traffic
- ❖ The website will be secure enough to prevent unauthorized users from hacking



# Report Design

## ❖ Customer Master File Sample Layout

Customer Master File

Lookup  10002 - Our Photo Booth Business


**General** Custom Fields Contacts Statement

Customer Number 10002 ☒ Active

Name Our Photo Booth Business

Address 1 909 South 76th Street

Address 2

City Omaha NE 68114- 

Primary Contact Mr Greg Gould

Phone (439) 330 - 5243

Fax (402) 393 - 4399


Credit Score

☐ Bankrupt

Sales Rep Sonia Keith

Collector

Parent Customer Number

Default Workflow Job 

Allow Multiple Jobs Per Personnel Request ☐

Notes

Import Recurring Invoices Sub Customers Aging Report

Customer Details Invoice Review Sales Details

Companies ☒ All ☐ Pick From List

Invoice Information

Attention Accounts Payable

☐ Taxable Tax Exempt ID 111111

☒ Print Past Due Notices Credit Limit \$30,000.00

☒ Print Statements

☐ Show 'For Approval Only' Delivery Option Print and/or E-Mail











Terms Net 30

Sales Tax Type

☒ By Invoice Detail Line Item ☐ By Tax Jurisdiction Subtotal


PS Invoice Options

☒ Group Jobs on PS Inv Rates Show Pay Rate

Inv Grp	Job Number	Job Description	Default Job
1	10002	 Our Photo Booth Business	10002 
1	10002A	 Accord Investments	10002 
1	10002B	 Alladin Realty	10002 
1	10002C	 Push Broom Cleaning	10002 
1	10002D	 Atlas Architectural Designs	10002 

## ❖ Vendor Master File Sample Layout

AP: Vendor Master File

Lookup  1614 - A-Plus Diagnostics Inc.

**General** Payments 1099 Info Purchase Orders Invoices Custom Fields Contacts


Vendor Number 1614 External Vendor ID 260 ☒ Active

Vendor Type Credit Card

Name A-Plus Diagnostics Inc.

Address 1 201 South 27th

Address 2


City Omaha NE 68131- 

Attention Payment Department

Minority Vendor ☐

Type

Certificate


Expires On 

Companies ☒ All ☐ Pick From List

Primary Contact

Phone ( ) -

Fax ( ) -

Parent Vendor 2100 

Account #

Tax ID aNI

Notes

# Report Design: Sample Layout of Reports

## ❖ Sales Report Sample Layout

### SAMPLE DAILY SALES REPORT TEMPLATE

Enter data on the Inventory List tab, then select your items from the dropdown menu in each cell of the Item No. column.  
Enter the quantity and tax rate for each item, and the template will calculate totals.

SALES PERSON	DATE	SALES AMOUNT	\$3,750.00
Zach Posey	11/30/28	SALES TAX	\$277.50
		SALES TOTAL	\$4,027.50

ITEM NO. ▾	ITEM NAME ▾	ITEM DESCRIPTION ▾	PRICE ▾	QTY ▾	AMOUN ▾	TAX RATE ▾	TAX ▾	TOTAL ▾
A123	ITEM A	Item A description	\$10.00	20	\$200.00	15%	\$30.00	\$230.00
B123	ITEM B	Item B description	\$20.00	10	\$200.00	15%	\$30.00	\$230.00
C123	ITEM C	Item C description	\$30.00	5	\$150.00	15%	\$22.50	\$172.50
D123	ITEM D	Item D description	\$10.00	40	\$400.00	0%	\$0.00	\$400.00
E123	ITEM E	Item E description	\$20.00	25	\$500.00	15%	\$75.00	\$575.00
F123	ITEM F	Item F description	\$30.00	50	\$1,500.00	0%	\$0.00	\$1,500.00
G123	ITEM G	Item G description	\$10.00	20	\$200.00	15%	\$30.00	\$230.00
H123	ITEM H	Item H description	\$20.00	30	\$600.00	15%	\$90.00	\$690.00
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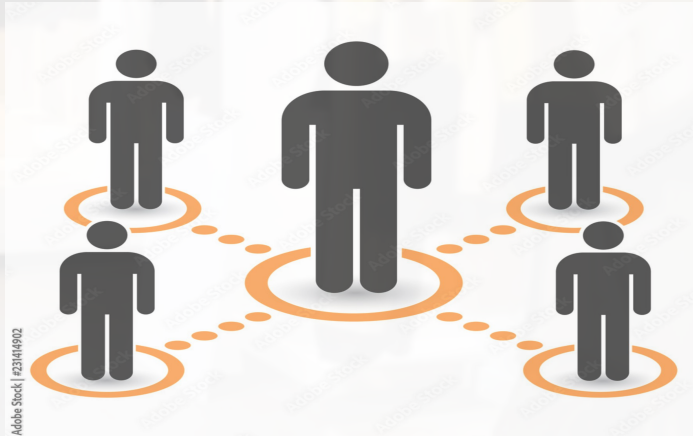
## ❖ Sales Dashboard Sample Layout

### Daily Sales Dashboard Report



# Report Design

- ❖ Who can run which report?
  - **Customer care Team:** Customer Master File (CMF)
  - **Vendors/Buyers Team:** Vendor Master File (VMF)
  - **Sales/Accounting/Finance Team:** Sales Report, CMF & VMF
- ❖ Limited access to specific respective team
- ❖ Implementation of segregation of duties
- ❖ Company policy
- ❖ Applicable rules and regulations.





# Project and Systems Analysis

## ❖ 5 Project Management Groups

1. Initiating : Project idea
2. Planning : Requirements and discovery
3. Executing : Content creation, UI/UX Designing and Web developing/coding
4. Monitoring and Controlling : Beta testing and editing
5. Closing : Releasing the systems and sales

## ❖ Timeline



# Project and Systems Analysis

- ❖ Cost : Total estimates for the project \$53,024
  - Project manager - \$10,000
  - Database administrator - \$9,000
  - Software engineer - \$10,000
  - Web developer - \$6,500
  - UI/UX designer - \$7,500
  - Software Cost - Wix professional monthly fee \$24
  - Hardware cost - \$10,000
- ❖ Resources : 1 person per position
  - Top managements (Key stakeholders)
  - Senior manager
  - Systems analyst/designer
  - Software engineer/ Web developer
  - UI/UX designer





# Thank You

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