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## **SECD 2523 Database**

### **Project Phase 2**

### **Getmehired.io Assist System << HireMe >>**

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**SECTION:** 02

**GROUP NAME:** Vergil's Chair

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## Table of content

Content	Page
1.0 Introduction .....	2
2.0 DFD (to-be)	
2.1 Context diagram .....	3
2.2 Level 0 diagram .....	4
2.3 Level 1 diagram .....	5
3.0 Data & transaction requirement	
3.1 Proposed business rule .....	8
3.2 Proposed data & transactional	
3.2.1 Proposed data requirement .....	8
3.2.2 Proposed transactional requirement .....	9
4.0 Database conceptual design	
4.1 Conceptual ERD .....	10
4.2 Enhanced ERD .....	10
5.0 Data dictionary .....	11
6.0 Summary .....	14

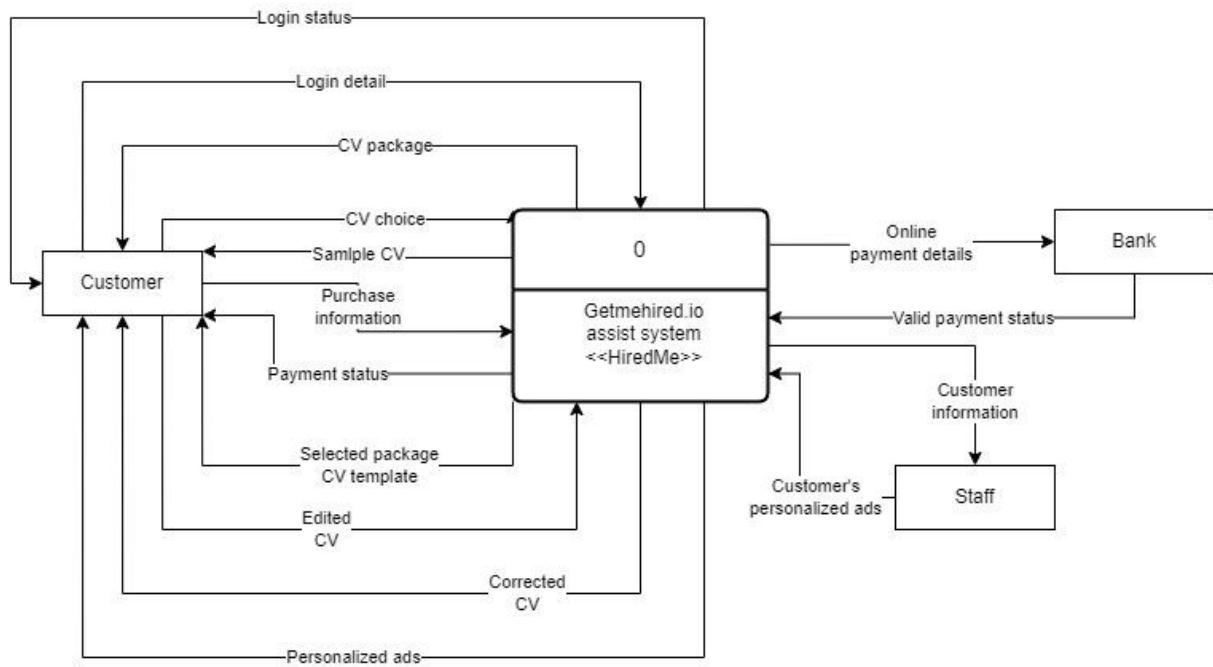
## **1.0 Introduction**

Get Me Hired.io a sophisticated platform tailored for the seamless construction of compelling Curriculum Vitae (CVs). In the contemporary job market, a meticulously crafted CV transcends a mere document; it serves as a professional narrative, articulating your skills, experiences, and career aspirations.

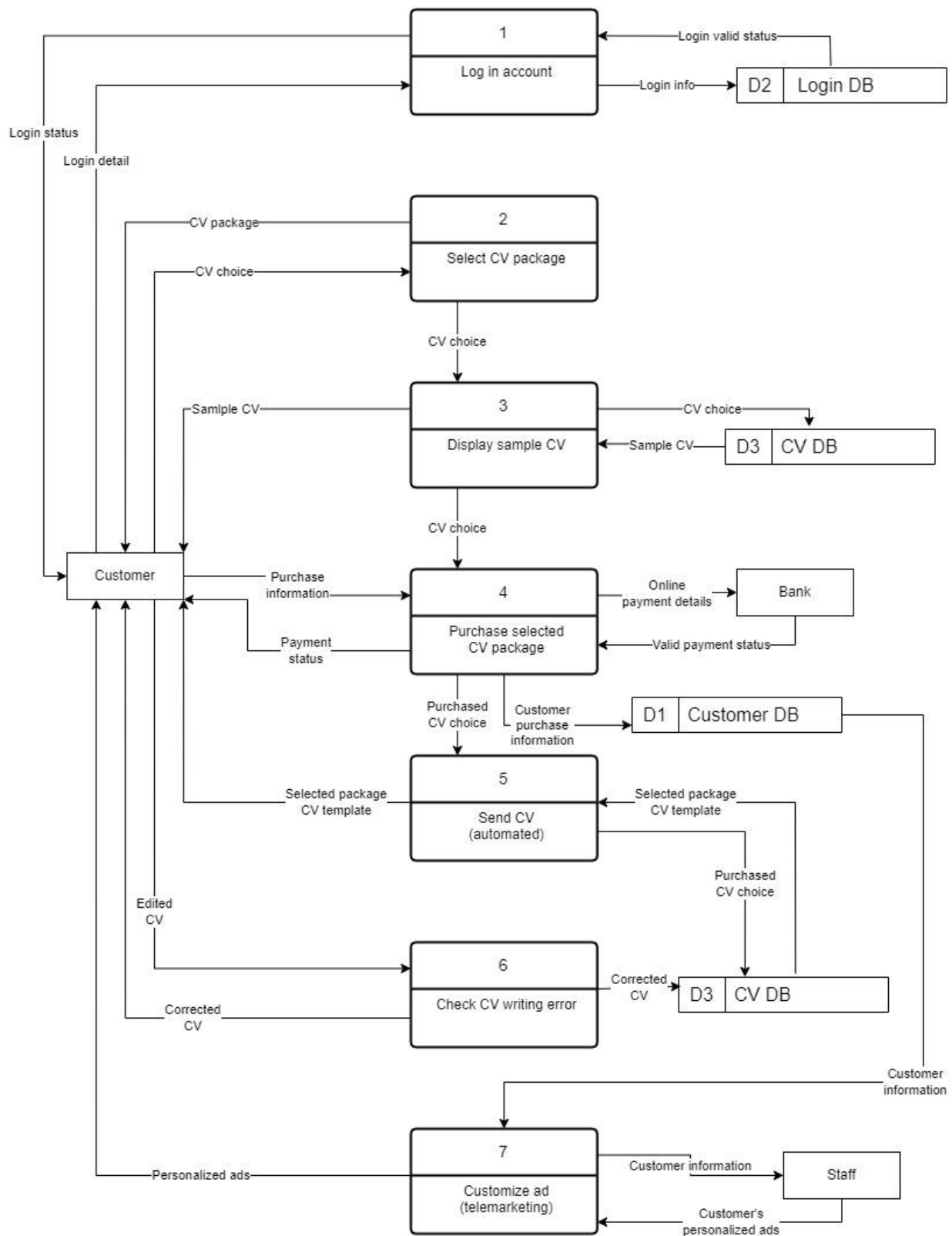
Within the realms of Get Me Hired.io , we recognize the pivotal role a personalized CV plays in career progression. Our platform offers a user-centric interface, empowering individuals to curate a professional and aesthetically pleasing CV effortlessly. Whether you find yourself amidst a seasoned professional cohort seeking to refine your professional footprint or a recent graduate embarking on the job market journey, our system is strategically engineered to cater to diverse career stages and industry landscapes.

## 2.0 DFD (to-be)

### 2.1 Context diagram

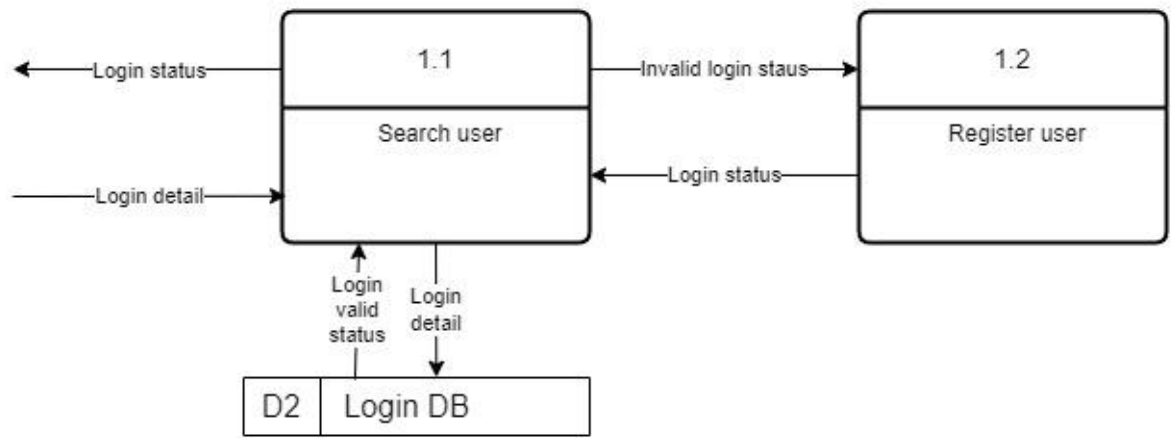


## 2.2 Level 0 diagram

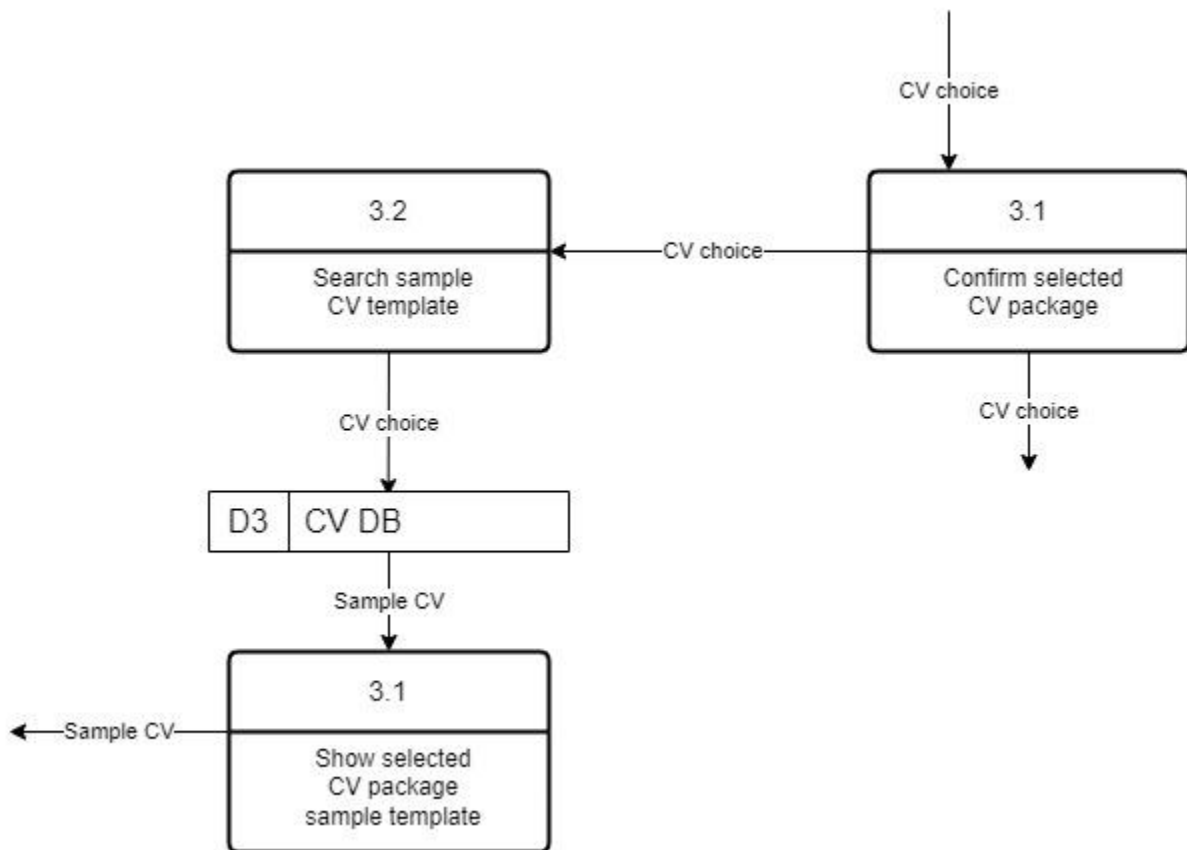


## 2.3 Level 1 diagram

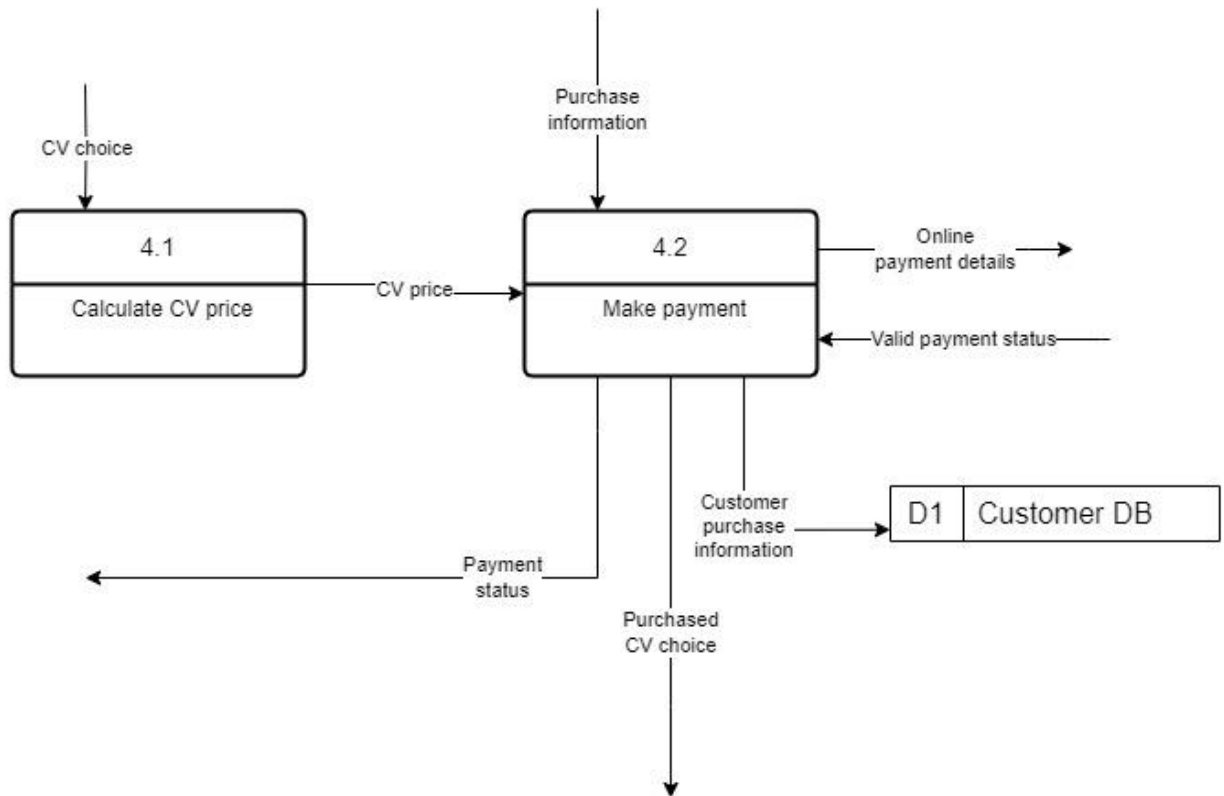
### Process 1: Log in account



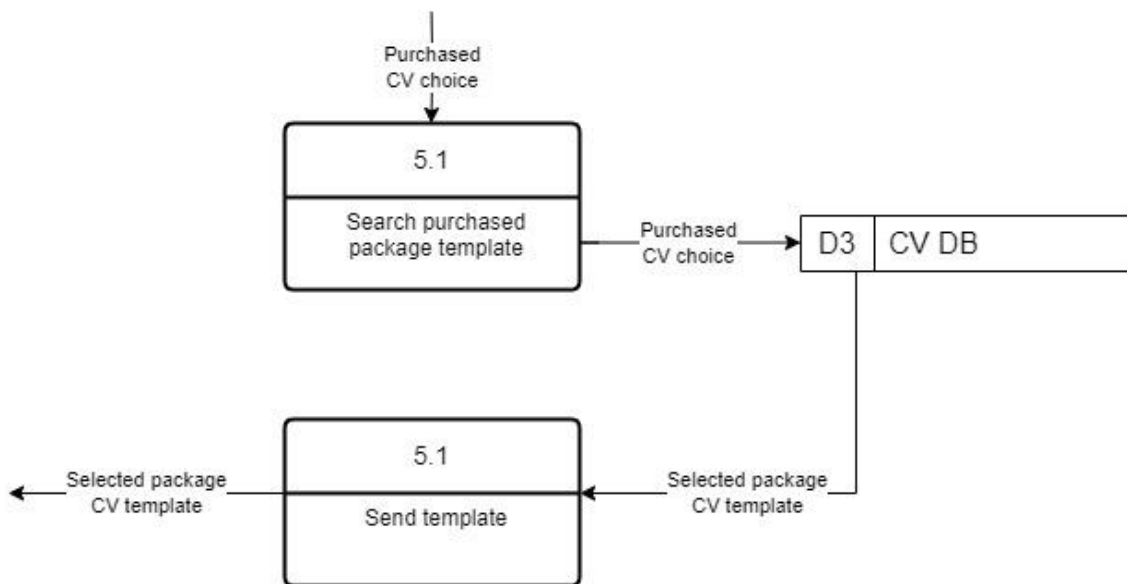
### Process 3: Display sample CV



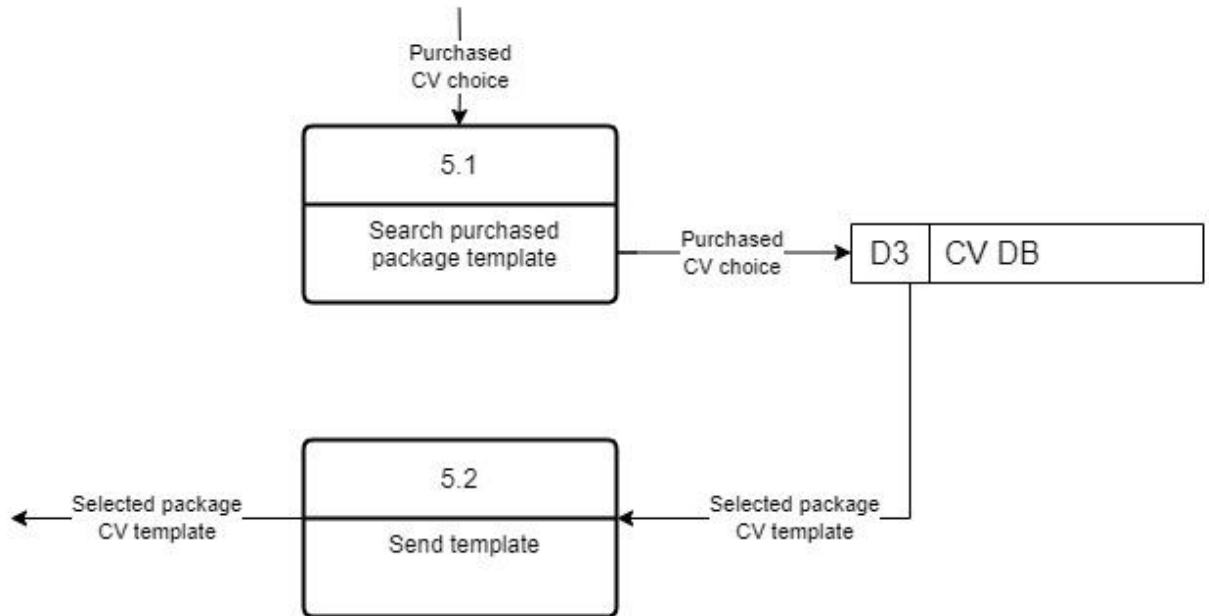
#### Process 4: Purchase selected CV package



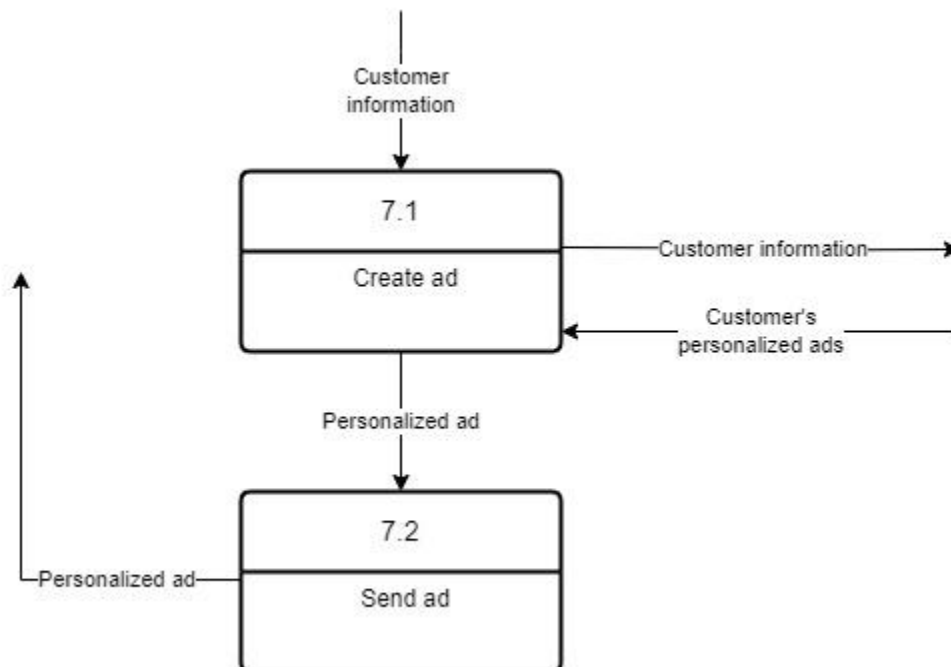
#### Process 5: Send CV (automated)



## Process 6: Check CV writing error



## Process 7: Customize ad





### **3.0 Data & transaction requirement**

#### **3.1 Proposed business rule**

1. The delivery system is working 24 hours a day, 7 days a week.
2. For the payment system, it will stop working from 12am-1am everyday due to the bank maintenance.
3. The payment status will be updated and sent to customers who have completed the purchase in less than 5 minutes via email delivery.
4. Customers are optional to register an account before purchasing a CV plan from the website.
5. Customers can preview each CV plan before placing an order.
6. For guests, customers must input their name and phone number in the system for checking.
7. Customers shall receive a final report of the CV from the system.
8. Staff must enter a Staff ID and password to access the system for tracking the orders. and email address for the delivery purposes upon checking out an order.
9. For registered users, customers can login into the account and perform the check out process directly without having to fill in the necessary details.
10. Customers must select a payment method from the available options to process the payment.
11. Customers shall receive the purchased CV templates via email.
12. Customers must fill the CV templates before submitting int

#### **3.2 Proposed data & transactional**

##### **3.2.1 Proposed data requirement**

###### **Customer**

The data stored includes the Customer ID, Name, Phone Number and Email Address. The Customer ID is unique.

###### **Payment**

When a customer makes a payment, a unique Payment ID will be generated and

recorded in the system, other data stored includes Payment Type, Payment Date, Payment Time and Payment Status.

### **Order**

When a new order is made by a customer, an Order ID will be generated and recorded in the system, other data stored includes Order Date, Order Time, Total Amount of the Order and Order Status.

### **Product**

The data stored includes the Product ID, Product Name, Product Description and Price.

## **3.2.2 Proposed transactional requirement**

### **Data Entry**

- Enter the period of the sales report needed
- Enter the details of the sales report needed
- Enter the details of the payment

### **Data Update/Delete**

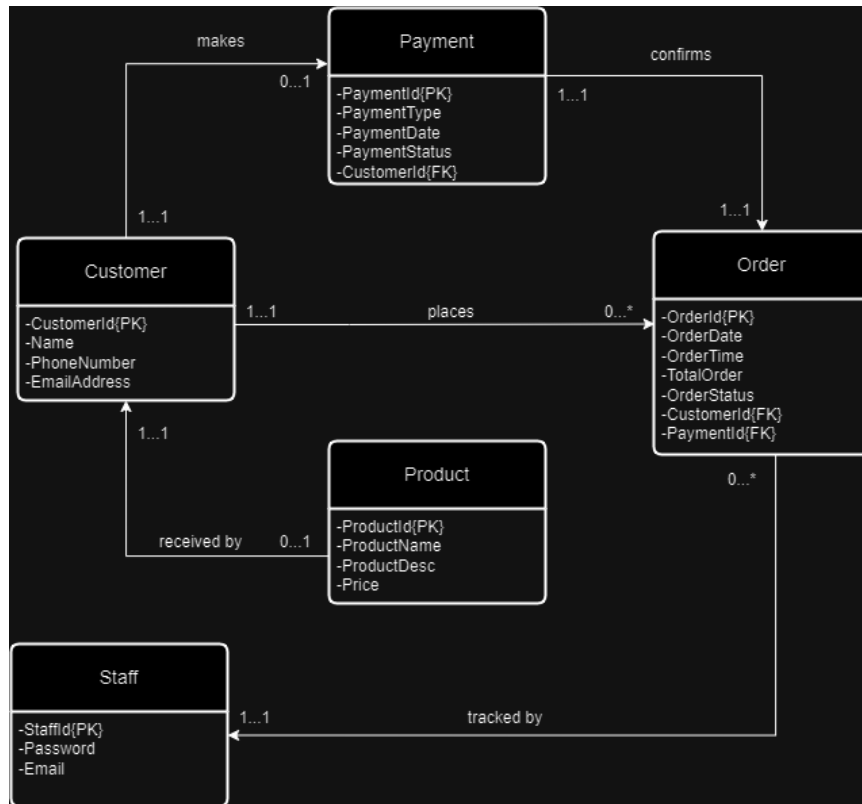
- Update/delete the period of the sales report needed
- Update/delete the details of the sales report needed
- Update/delete the details of the payment

### **Data Queries**

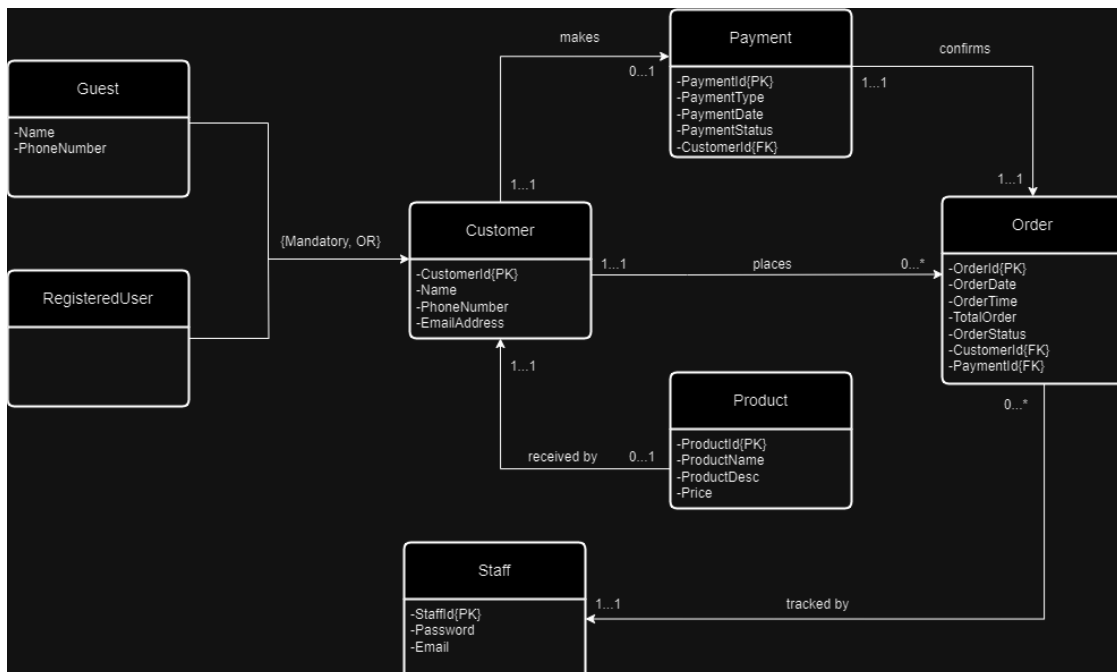
- List details of the product
- List the order history
- Identify order status
- Identify payment status

## 4.0 Database conceptual design

### 4.1 Conceptual ERD



### 4.2 Enhanced ERD (EERD)



## 5.0 Data dictionary

### 5.1 Description of entities

Entity	Description	Occurrence
Customer	Holds the data of customer	Customer places order and makes payment for the order
Staff	Holds the data of staff	Staff monitors the sales and handles communication with potential customers
Payment	Holds the payment details	Customer makes payment for their order
Order	Holds the order details	Customer places order for their desired product
Product	Holds the data about product	Customer can view details about the products

### 5.2 Description of relationship

Entity	Multiplicity	Relationship	Multiplicity	Entity
Customer	1...1	places	0...*	Order
Product	0...1	received by	1...1	Customer
Customer	1...1	makes	0...1	Payment
Payment	1...1	confirms	1...1	Order
Order	0...*	tracked by	1...1	Staff

### 5.3 Description of attributes

Entity	Attribute	Description	Data type	Constraint
Customer	CustomerId	Customer's Id	VARCHAR2(15)	PRIMARY KEY
	Name	Customer's name	VARCHAR2(30)	NOT NULL
	PhoneNumber	Customer's phone number	VARCHAR2(12)	NOT NULL
	Address	Customer's address	VARCHAR2(100)	NOT NULL
Product	ProductId	Product's id	VARCHAR2(15)	PRIMARY KEY
	ProductName	Product's name	VARCHAR2(30)	NOT NULL
	ProductDesc	Product's description	VARCHAR2(100)	NOT NULL
	Price	Product's price	DECIMAL(10,2)	NOT NULL
Payment	PaymentId	Payment Id	VARCHAR2(15)	PRIMARY KEY
	PaymentType	Payment method	CHAR(1)	NOT NULL
	PaymentDate	Date of payment	DATE	NOT NULL
	PaymentStatus	Payment status	CHAR(1)	NOT NULL
	CustomerId	Customer's Id	VARCHAR2(15)	FOREIGN KEY -REFERENCE CUSTOMER
Order	OrderId	Order's Id	VARCHAR2(15)	PRIMARY KEY
	OrderDate	Date of order	DATE	NOT NULL
	OrderTime	Time of order	TIME	NOT NULL

	TotalOrder	Total order	DECIMAL(10,2)	NOT NULL
	OrderStatus	Order status	CHAR(1)	NOT NULL
	CustomerId	Customer's Id	VARCHAR2(15)	FOREIGN KEY -REFERENCE CUSTOMER
	PaymentId	Payment Id	VARCHAR2(15)	FOREIGN KEY -REFERENCE PAYMENT
Staff	StaffId	Staff's Id	VARCHAR2(15)	PRIMARY KEY
	Password	Staff's password	VARCHAR2(8)	NOT NULL
	Email	Staff's email	VARCHAR2(30)	NOT NULL

## **6.0 Summary**

In summary, this assignment has explored the intricacies of system design and database conceptualization. It began with an introduction outlining the project's scope and objectives. The Data Flow Diagram (DFD) was dissected to illustrate the to-be state, and data and transaction requirements were meticulously defined. The Database Conceptual Design section provided a visual representation of entity relationships, culminating in the Enhanced ERD.

The Data Dictionary served as a comprehensive catalog, ensuring clarity and consistency in data management. This systematic approach contributes to the creation of a robust system with the capacity to meet specified objectives.