



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

## **SECD2523 DATABASE**

### **PROJECT : PHASE 3**

### **DATABASE LOGICAL DESIGN & SQL**

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## **1 Introduction**

In this project, our team has chosen the system from the platform “GetMe Hired” to be the system that we tend to use for enhancement. However, the current system in “GetMe Hired” is not satisfied by the users and the owner due to several issues that lead to this situation. Therefore, our team will improve and enhance the current system in “GetMe Hired” in order to develop and come out with a better job searching system to fulfill the wishes of the job seekers and develop a better user experience. Our team has the aim and objective to improve and enhance the current system in order to provide a better user experience. Therefore, our team will provide the plans for developing enhancements for the current system in “GetMe Hired” which is not satisfactory from the perspective of users and also the system’s owner.

## **2 Overview of Project**

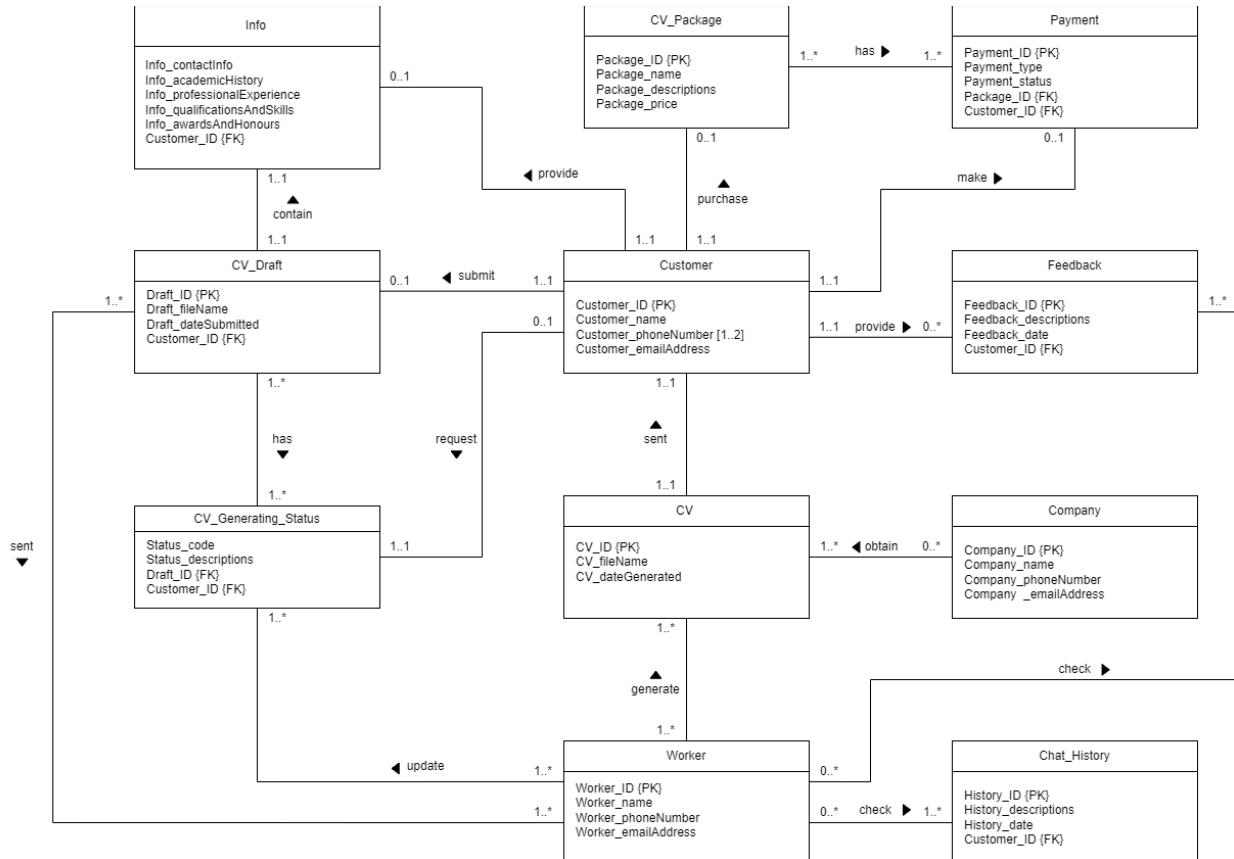
After completing the phase 2 of the project which includes the database conceptual design, our team are now proceeding to the next phase which is phase 3 of this project in order to implement the database logical design and produce the SQL statements that include both DDL and DML which required for our improved and enhanced “GetMe Hired”. Therefore, in this paper, the conceptual ERD which was produced in phase 2 will be transformed into a logical ERD and followed by the production of relation schemas required. Apart from that, normalization will also take place in order to minimize the redundancy and the number of attributes and anomalies. Following this, the data dictionary for “GetMe Hired” will also be updated by referring to the normalized relations. Last but not least, the database for “GetMe Hired” will be produced and implemented by using the SQL statements.

## **3 Database Conceptual Design**

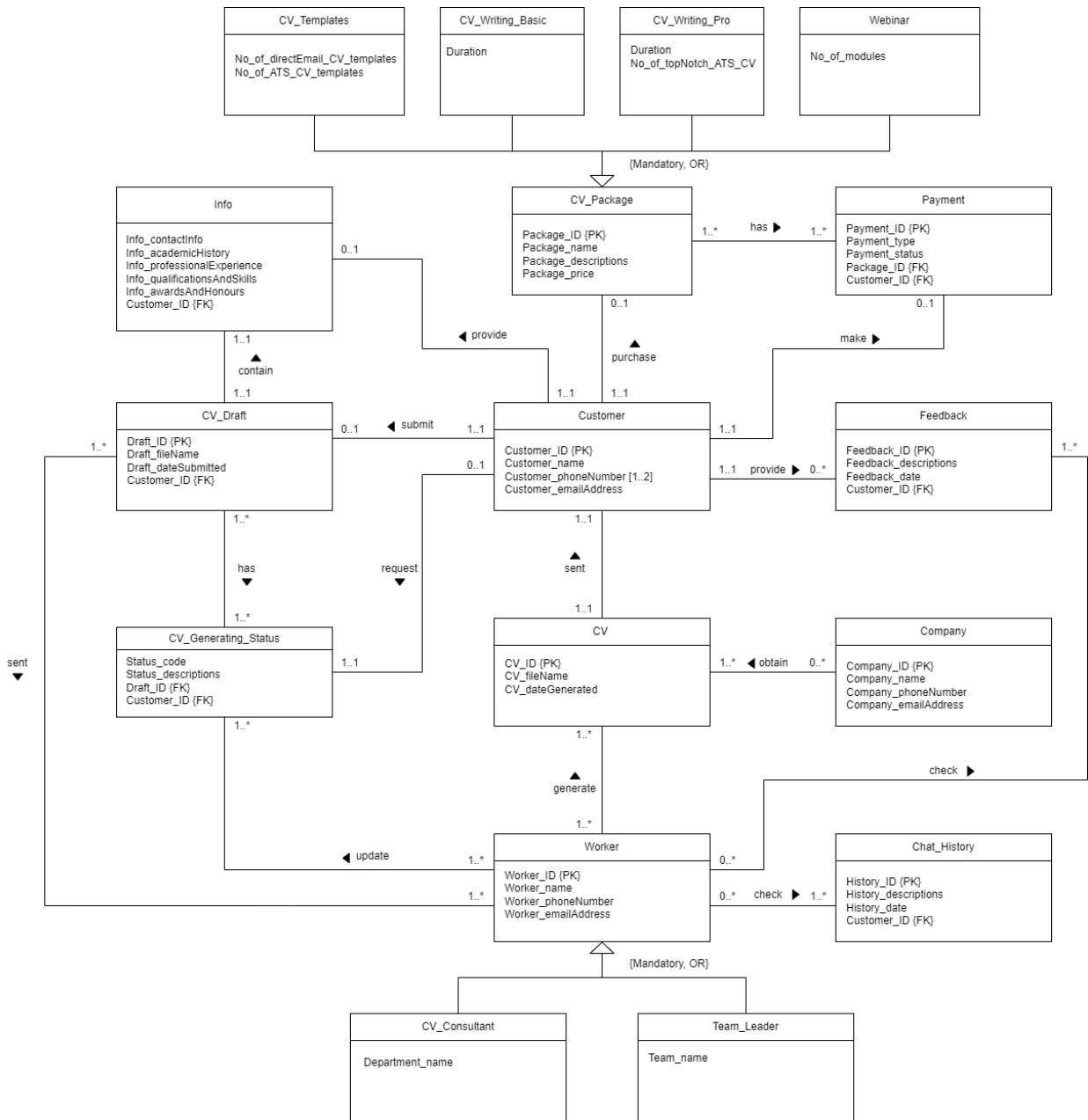
### **3.1 Updated Business Rule**

1. A worker can be a CV\_Constant or a Team\_Leader.
2. A customer can have one or two phone numbers.
3. A customer can purchase one or zero CV\_package.
4. Many CV\_package can have many payments.
5. A customer can make one or zero payment.
6. A customer can provide one or zero CV\_info.
7. A CV\_Draft contains one CV\_info.
8. A customer can submit zero or one CV\_Draft.
9. Many CV\_Draft are sent to many workers.
10. A customer can request a CV\_Generating\_Status.
11. Many CV\_Draft has many CV\_Generating\_Status.
12. Many workers update many CV\_Generating\_Status.
13. Many workers can check many Chat\_History.
14. Many workers generate many CVs.
15. A CV is sent to a customer.
16. A customer can provide zero or a lot of feedback.
17. Many workers can check a lot of feedback.
18. Many companies can obtain many CVs.

### **3.2 Conceptual ERD**

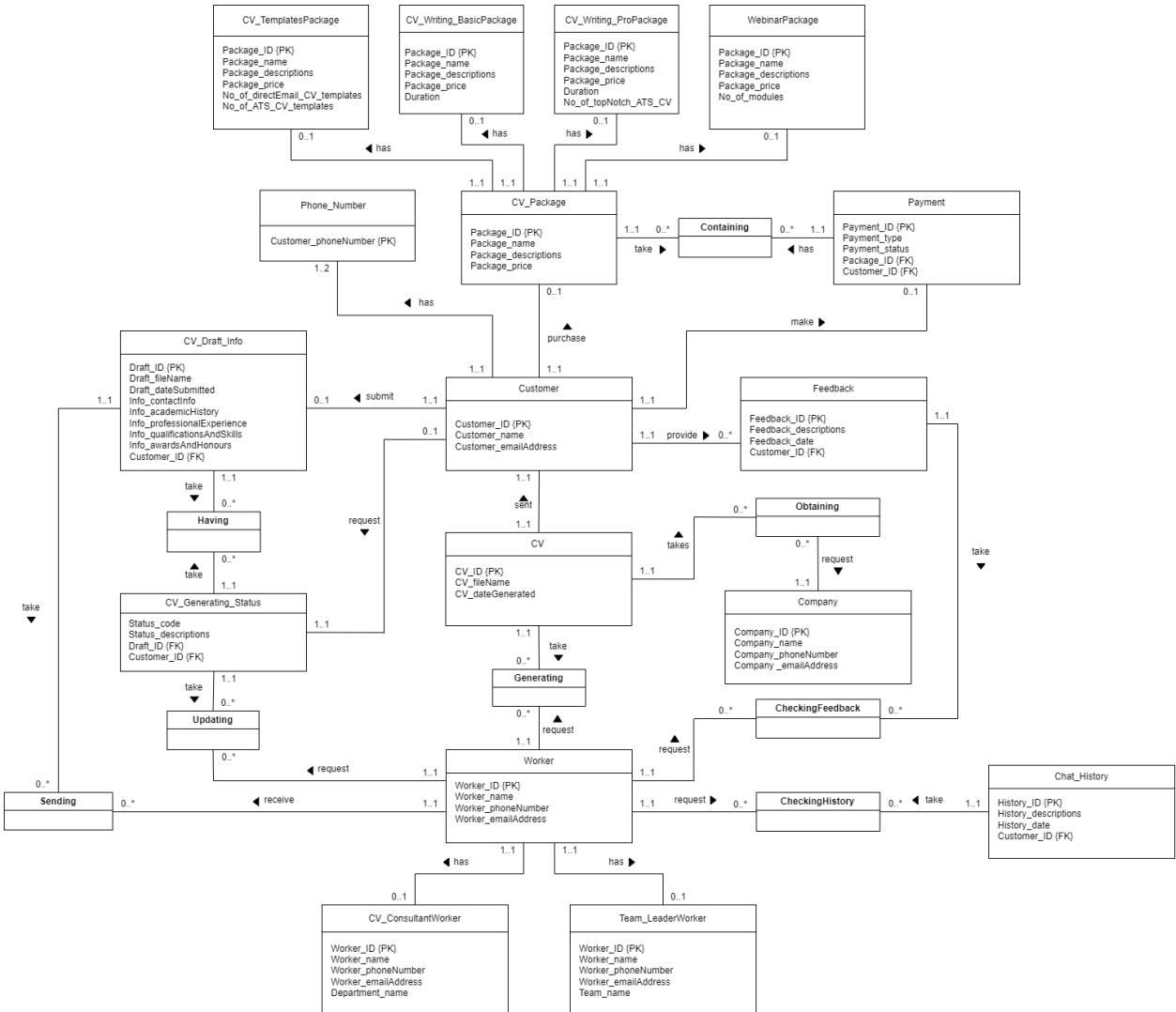


### 3.3 Conceptual ERD (EERD)



# 4 Database Logical Design

## 4.1 Logical ERD



## 4.2 Updated Data Dictionary

### 4.2.1 Description of Entity

Entity	Description	Occurrence
Customer	General term describing all the customers (job seeker) in “GetMe Hired”	<p>Each customer registers their accounts</p> <p>Each customer has one to two phone numbers</p> <p>Each customer may purchase one CV package and makes payment for it</p> <p>Each customer may submit a CV draft which includes their informations</p> <p>Each customer can request their CV generating status</p> <p>Each customer receives the CV generated and may provide many feedback based on the services provided by “GetMe Hired”</p>
Phone_Number	General term describing all the phone numbers of a customer	Each phone number is owned by one customer
CV_Package	General term describing all the provided CV package by “GetMe Hired”	<p>Each CV package may purchased by one customer</p> <p>Each CV package may have CV Templates package, CV Writing Basic package, CV Writing Pro Package and Webinar Package</p> <p>Each CV package takes none or many containing</p>
CV_TemplatePackage	One of the packages offered by	Each CV Template package is

	“GetMe Hired”	included in one CV package
CV_Writing_BasicPac kage	One of the packages offered by “GetMe Hired”	Each CV Writing Basic package is included in one CV package
CV_WritingProPackag e	One of the packages offered by “GetMe Hired”	Each CV Writing Pro package is included in one CV package
WebinarPackage	One of the packages offered by “GetMe Hired”	Each Webinar package is included in one CV package
Containing	Describe the CV packages has their own corresponding payments	Each Containing is taken by CV packages  Each Containing have payment
Payment	General term describing all the payment made by customers	Each payment may made by one customer  Each payment owned by none or many Containing
CV_Draft_Info	General term describing all the draft that have been submitted by the customer to “GetMe Hired” which contains CV information of customer	Each CV draft info may submitted by one customer  Each CV draft info takes none or many Having  Each CV draft info takes none or many Sending
Having	Describe that the CV draft info having their corresponding CV generating status	Each Having is taken by one CV draft info and CV generating status
Sending	Describe that the CV draft info is sent to the worker	Each Sending is taken by one CV draft info  Each Sending is received by one Worker
Updating	Describe that the CV generating status is updated by the worker	Each Updating is taken by one CV generating status

		Each Updating is requested by one worker
Worker	General term describing all the workers of “GetMeHired”	Each worker receives none or many Sending, Updating, Generating, CheckingFeedback, CheckingHistory  Each worker has none or one CV consultant and Team Leader
CV_ConsultantWorker	One of the types of worker who focus on receiving and generating CV	Each CV consultant worker is included in one worker
Team_LeaderWorker	One of the types of worker who focus on checking the CV	Each team leader worker is included in one worker
CheckingFeedback	Describe that the feedback provided by the customer can be checked by the worker	Each CheckingFeedback is requested by one worker  Each CheckingFeedback is taken by feedback
CheckingHistory	Describe that the chat history between the customer and the worker can be checked by workers	Each CheckingHistory is requested by one worker  Each CheckingHistory is taken by chat history
CV_Generating_Status	General term describing the current status of generating CV	Each CV generating status takes none or many Having and Updating  Each CV generating status is requested by none or one customer
Chat_History	General term describing all the chat history between worker and customer	Each customer chat history takes none or many CheckingHistory
Generating	Describe that theCV are generated	Each Generating is taken by

	by the worker	one customer  Each Generating is requested by one worker
Obtaining	Describe that the CV are obtained by the company	Each Obtaining is taken by one CV  Each Obtaining is requested by one company
CV	General term describing all the generated CV by the workers	Each CV takes none or many Generating and Obtaining  Each CV is sent to one customer
Feedback	General term describing all the feedback given by customer	Each customer feedback is provided by one customer  Each customer feedback takes none or many CheckingFeedback
Company	General term describing all the recruiter that used “GetMe Hired”	Each company request none or many Obtaining

#### 4.2.2 Description of Relationship

Entity	Multiplicity	Relationship	Multiplicity	Entity
Customer	1..1 1..1 1..1 1..1 0..1 1..1 1..1	Has Purchase Make Submit Request Receive Provide	1..2 0..1 0..1 0..1 1..1 1..1 1..*	Phone_Number CV_Package Payment CV_Draft_Info CV_Generating_Status CV Feedback
CV_Package	1..1 1..1 1..1 1..1 1..1	Take Has Has Has Has	0..* 0..1 0..1 0..1 0..1	Containing CV_TemplatesPackage CV_Writing_BasicPackage CV_Writing_ProPackage WebinarPackage
Payment	1..1	Has	0..*	Containing
CV_Draft_Info	1..1 1..1	Take Take	0..* 0..*	Having Sending
CV	1..1 1..1	Take Take	0..* 0..*	Generating Obtaining
CV_Generating_Status	1..1 1..1	Take Take	0..* 0..*	Having Updating
Worker	1..1 1..1 1..1 1..1 1..1 1..1 1..1	Request Request Receive Request Request Has Has	0..* 0..* 0..* 0..* 0..* 0..* 0..*	Updating Generating Sending CheckingFeedback CheckingHistory CV_ConsultantWorker Team_LeaderWorker
Feedback	1..1	Take	0..*	CheckingFeedback
Chat_History	1..1	Take	0..*	CheckingHistory
Company	1..1	Request	0..*	Obtaining

#### 4.2.3 Description of Attributes

Entity	Attributes	Description	Data Type	Constraint	Multi-valued
Customer	Customer_ID	Uniquely identifies a customer	VARCHAR 2(15)	PRIMARY KEY	no
	Customer_name	Name of customer	VARCHAR 2(30)	NOT NULL	no
	Customer_email Address	Email address of customer	VARCHAR 2(30)	NOT NULL	no
Phone_Number	Customer_phone Number	Phone number of customer	VARCHAR 2(12)	PRIMARY KEY	no
	Customer_ID	Referenced customer ID	VARCHAR 2(15)	-FOREIGN KEY REFERENCE CUSTOMER	no
CV_Package	Package_ID	Uniquely identifies a package	VARCHAR 2(15)	PRIMARY KEY	no
	Package_name	Name of package	VARCHAR 2(30)	NOT NULL	no
	Package_descriptions	Description of package	VARCHAR 2(4000)	NOT NULL	no
	Package_price	Price of package	DECIMAL (8,2)	NOT NULL	no
CV_TemplatesPackage	Package_ID	Uniquely identifies a package	VARCHAR 2(15)	PRIMARY KEY	no
	Package_name	Name of package	VARCHAR 2(30)	NOT NULL	no
	Package_descriptions	Description of package	VARCHAR 2(4000)	NOT NULL	no
	Package_price	Price of package	DECIMAL (8,2)	NOT NULL	no
	No_of_directEm	Number of direct	NUMBER()	NOT NULL	no

	ail_CV_templates	email CV templates provided	1)		
	No_of_ATS_CV_templates	Number of ATS CV templates provided	NUMBER(1)	NOT NULL	no
CV_Writing_BasicPackage	Package_ID	Uniquely identifies a package	VARCHAR 2(15)	PRIMARY KEY	no
	Package_name	Name of package	VARCHAR 2(30)	NOT NULL	no
	Package_descriptions	Description of package	VARCHAR 2(4000)	NOT NULL	no
	Package_price	Price of package	DECIMAL (8,2)	NOT NULL	no
	Duration	Duration of package in days	NUMBER(2)	NOT NULL	no
CV_Writing_ProPackage	Package_ID	Uniquely identifies a package	VARCHAR 2(15)	PRIMARY KEY	no
	Package_name	Name of package	VARCHAR 2(30)	NOT NULL	no
	Package_descriptions	Description of package	VARCHAR 2(4000)	NOT NULL	no
	Package_price	Price of package	DECIMAL (8,2)	NOT NULL	no
	Duration	Duration of package in days	NUMBER(1)	NOT NULL	no
	No_of_topNotch_ATS_CV	Number of top notch ATS CV provided	NUMBER(1)	NOT NULL	no
WebinarPackage	Package_ID	Uniquely identifies a package	VARCHAR 2(15)	PRIMARY KEY	no
	Package_name	Name of package	VARCHAR 2(30)	NOT NULL	no
	Package_descriptions	Description of package	VARCHAR 2(4000)	NOT NULL	no
	Package_price	Price of package	DECIMAL	NOT NULL	no

			(8,2)		
	No_of_modules	Number of modules provided	NUMBER(1)	NOT NULL	No
Payment	Payment_ID	Uniquely identifies a payment	VARCHAR 2(15)	PRIMARY KEY	no
	Payment_type	Type of payment	CHAR(1)	NOT NULL	no
	Payment_status	Payment status	CHAR(1)	NOT NULL	no
	Package_ID	Referenced package ID	VARCHAR 2(25)	-FOREIGN KEY REFERENCE CV_PACKAG E	no
	Customer_ID	Referenced customer ID	VARCHAR 2(15)	-FOREIGN KEY REFERENCE CUSTOMER	no
CV_Draft_Info	Draft_ID	Uniquely identifies a CV draft	VARCHAR 2(15)	PRIMARY KEY	no
	Draft_fileName	File name of CV draft	VARCHAR 2(40)	NOT NULL	no
	Draft_dateSubmitted	Date submitted the CV draft	DATE	NOT NULL	no
	Info_contactInfo	Contact information that filled in CV template	VARCHAR 2(4000)	NOT NULL	yes
	Info_academicHistory	Academic history that filled in CV template	VARCHAR 2(4000)	NOT NULL	yes
	Info_professionalExperience	Professional experience that filled in CV template	VARCHAR 2(4000)	-	yes

	Info_qualificationsAndSkills	Qualifications and skills that filled in CV template	VARCHAR 2(4000)	-	yes
	Info_awardsAndHonours	Awards and honors that filled in CV template	VARCHAR 2(4000)	-	yes
	Customer_ID	Referenced customer ID	VARCHAR 2(15)	-FOREIGN KEY REFERENCE CUSTOMER	no
Worker	Worker_ID	Uniquely identifies a “GetMe Hired” worker	VARCHAR 2(15)	PRIMARY KEY	no
	Worker_name	Name of worker	VARCHAR 2(30)	NOT NULL	no
	Worker_phoneNumber	Phone number of worker	VARCHAR 2(12)	NOT NULL	yes
	Worker_emailAddress	Email address of worker	VARCHAR 2(30)	NOT NULL	no
CV_ConsultantWorker	Worker_ID	Uniquely identifies a “GetMe Hired” worker	VARCHAR 2(15)	PRIMARY KEY	no
	Worker_name	Name of worker	VARCHAR 2(30)	NOT NULL	no
	Worker_phoneNumber	Phone number of worker	VARCHAR 2(12)	NOT NULL	yes
	Worker_emailAddress	Email address of worker	VARCHAR 2(30)	NOT NULL	no
	Department_name	Name of department of CV consultant	VARCHAR 2(30)	NOT NULL	no
Team_LeaderWorker	Worker_ID	Uniquely identifies a “GetMe Hired” worker	VARCHAR 2(15)	PRIMARY KEY	no
	Worker_name	Name of worker	VARCHAR 2(30)	NOT NULL	no

	Worker_phoneNumber	Phone number of worker	VARCHAR 2(12)	NOT NULL	yes
	Worker_emailAddress	Email address of worker	VARCHAR 2(30)	NOT NULL	no
	Team_name	Name of team of proof leader	VARCHAR 2(30)	NOT NULL	no
CV_Generating_Status	Status_code	Code of status for generation of CV	VARCHAR 2(15)	NOT NULL	no
	Status_descriptions	CV generating descriptions	VARCHAR 2(4000)	NOT NULL	no
	Customer_ID	Referenced customer ID	VARCHAR 2(15)	-FOREIGN KEY REFERENCE CUSTOMER	no
	Draft_ID	Referenced CV draft ID	VARCHAR 2(15)	-FOREIGN KEY REFERENCE CV_DRAFT	no
Chat_History	History_ID	Uniquely identifies a customer chat history	VARCHAR 2(15)	PRIMARY KEY	no
	History_descriptions	Title of chat history	VARCHAR 2(4000)	NOT NULL	no
	History_date	Date of chat history	DATE	NOT NULL	yes
	Customer_ID	Referenced customer ID	VARCHAR 2(15)	-FOREIGN KEY REFERENCE CUSTOMER	no
CV	CV_ID	Uniquely identifies CV generated	VARCHAR 2(15)	PRIMARY KEY	no
	CV_fileName	File name of CV	VARCHAR 2(40)	NOT NULL	no
	CV_dateGenerated	Date generated the CV	DATE	NOT NULL	no

Feedback	Feedback_ID	Uniquely identifies a customer feedback	VARCHAR 2(15)	PRIMARY KEY	no
	Feedback_descriptions	Feedback descriptions of customer provides	VARCHAR 2(4000)	NOT NULL	no
	Feedback_date	Date customer gives the feedback	DATE	NOT NULL	no
	Customer_ID	Referenced customer ID	VARCHAR 2(15)	-FOREIGN KEY REFERENCE CUSTOMER	no
Company	Company_ID	Uniquely identifies a company	VARCHAR 2(15)	PRIMARY KEY	no
	Company_name	Name of company	VARCHAR 2(30)	NOT NULL	no
	Company_phone Number	Phone number of company	VARCHAR 2(12)	NOT NULL	yes
	Company_email Address	Email address of company	VARCHAR 2(30)	NOT NULL	no
Containing	Package_ID	Uniquely identifies a package	VARCHAR 2(15)	-FOREIGN KEY REFERENCE CV_PACKAGE	no
	Payment_ID	Uniquely identifies a payment	VARCHAR 2(15)	-FOREIGN KEY REFERENCE PAYMENT	no
Generating	Worker_ID	Uniquely identifies a “GetMe Hired” worker	VARCHAR 2(15)	-FOREIGN KEY REFERENCE WORKER	no
	CV_ID	Uniquely identifies CV generated	VARCHAR 2(15)	-FOREIGN KEY REFERENCE CV	no

Updating	Worker_ID	Uniquely identifies a “GetMe Hired” worker	VARCHAR 2(15)	-FOREIGN KEY REFERENCE WORKER	no
Having	Draft_ID	Uniquely identifies a CV draft	VARCHAR 2(15)	-FOREIGN KEY REFERENCE CV_DRAFT_INFO	no
Sending	Worker_ID	Uniquely identifies a “GetMe Hired” worker	VARCHAR 2(15)	-FOREIGN KEY REFERENCE WORKER	no
	Draft_ID	Uniquely identifies a CV draft	VARCHAR 2(15)	-FOREIGN KEY REFERENCE CV_DRAFT_INFO	no
Obtaining	Company_ID	Uniquely identifies a company	VARCHAR 2(15)	-FOREIGN KEY REFERENCE COMPANY	no
	CV_ID	Uniquely identifies CV generated	VARCHAR 2(15)	-FOREIGN KEY REFERENCE CV	no
CheckingFeedback	Worker_ID	Uniquely identifies a “GetMe Hired” worker	VARCHAR 2(15)	-FOREIGN KEY REFERENCE WORKER	no
	Feedback_ID	Uniquely identifies a customer feedback	VARCHAR 2(15)	-FOREIGN KEY REFERENCE FEEDBACK	no
CheckingHistory	Worker_ID	Uniquely identifies a “GetMe Hired” worker	VARCHAR 2(15)	-FOREIGN KEY REFERENCE WORKER	no

	History_ID	Uniquely identifies a customer chat history	VARCHAR 2(15)	-FOREIGN KEY REFERENCE CHAT_HIST ORY	no
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#### 4.2.4 Database Relation Schemas

1. Customer (Customer\_ID, Customer\_name, Customer\_emailAddress)  
PK: Customer\_ID
2. Phone\_Number (Customer\_phoneNumber, Customer\_ID)  
PK: Customer\_phoneNumber  
FK: Customer\_ID references Customer (Customer\_ID)
3. CV\_Package (Package\_ID, Package\_name, Package\_descriptions, Package\_price)  
PK: Package\_ID
4. CV\_TemplatesPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, No\_of\_directEmail\_CV\_templates, No\_of\_ATS\_CV\_templates)  
PK: Package\_ID
5. CV\_Writing\_BasicPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, Duration)  
PK: Package\_ID
6. CV\_Writing\_ProPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, Duration, No\_of\_topNotch\_ATS\_CV)  
PK: Package\_ID
7. WebinarPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, No\_of\_modules)  
PK: Package\_ID
8. Payment (Payment\_ID, Payment\_type, Payment\_status, Package\_ID, Customer\_ID)  
PK: Payment\_ID  
FK: Customer\_ID references Customer (Customer\_ID)  
FK: Package\_ID references CV\_Package (Package\_ID)

9. CV\_Draft\_Info (Draft\_ID, Draft\_fileName, Draft\_dateSubmitted, Info\_contactInfo, Info\_academicHistory, Info\_professionalExperience, Info\_qualificationAndSkills, Info\_awardsAndHonours, Customer\_ID)  
PK: Draft\_ID  
FK: Customer\_ID references Customer (Customer\_ID)
10. CV\_Generating\_Status (Status\_code, Status\_descriptions, Draft\_ID, Customer\_ID)  
FK: Customer\_ID references Customer (Customer\_ID)
11. CV (CV\_ID, CV\_fileName, CV\_dateGenerated)  
PK: CV\_ID
12. Worker (Worker\_ID, Worker\_name, Worker\_phoneNumber, Worker\_emailAddress)  
PK: Worker\_ID
13. CV\_ConsultantWorker (Worker\_ID, Worker\_name, Worker\_phoneNumber, Worker\_emailAddress, Department\_name)  
PK: Worker\_ID
14. Team\_LeaderWorker (Worker\_ID, Worker\_name, Worker\_phoneNumber, Worker\_emailAddress, Team\_name)  
PK: Worker\_ID
15. Chat\_History (History\_ID, History\_descriptions, History\_date, Customer\_ID)  
PK: History\_ID  
FK: Customer\_ID references Customer (Customer\_ID)
16. Feedback (Feedback\_ID, Feedback\_descriptions, Feedback\_date, Customer\_ID)  
PK: Feedback\_ID  
FK: Customer\_ID references Customer (Customer\_ID)
17. Company (Company\_ID, Company\_name, Company\_phoneNumber, Company\_emailAddress)  
PK: Company\_ID
18. Containing (Package\_ID, Payment\_ID)  
FK: Package\_ID references CV\_Package (Package\_ID)  
FK: Payment\_ID references Payment (Payment\_ID)
19. Having (Draft\_ID)

FK: Draft\_ID references CV\_Draft\_Info (Draft\_ID)

20. Sending (Draft\_ID, Worker\_ID)

FK: Draft\_ID references CV\_Draft\_Info (Draft\_ID)

FK: Worker\_ID references Worker (Worker\_ID)

21. Updating (Worker\_ID)

FK: Worker\_ID references Worker (Worker\_ID)

22. Generating (Worker\_ID, CV\_ID)

FK: Worker\_ID references Worker (Worker\_ID)

FK: CV\_ID references CV (CV\_ID)

23. Obtaining (Company\_ID, CV\_ID)

FK: Company\_ID references Company (Company\_ID)

FK: CV\_ID references CV (CV\_ID)

24. CheckingFeedback (Worker\_ID, Feedback\_ID)

FK: Worker\_ID references Worker (Worker\_ID)

FK: Feedback\_ID references Feedback (Feedback\_ID)

25. CheckingHistory (Worker\_ID, History\_ID)

FK: Worker\_ID references Worker (Worker\_ID)

FK: History\_ID references Chat\_History (History\_ID)

Customer

Customer_ID	Customer_name	Customer_phoneNumber	Customer_emailAddress
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Phone\_Number

Customer_phoneNumber	Customer_ID
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CV\_Package

Package_ID	Package_name	Package_descriptions	Package_price
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CV\_TemplatesPackage

Package_ID	Package_name	Package_descriptions	Package_price	No_of_directEmail_CV_templates	No_of_ATS_CV_templates
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CV\_Writing\_BasicPackage

Package_ID	Package_name	Package_descriptions	Package_price	Duration
------------	--------------	----------------------	---------------	----------

CV\_Writing\_ProPackage

Package_ID	Package_name	Package_descriptions	Package_price	Duration	No_of_topNotch_ATS_CV
------------	--------------	----------------------	---------------	----------	-----------------------

WebinarPackage

Package_ID	Package_name	Package_descriptions	Package_price	No_of_modules
------------	--------------	----------------------	---------------	---------------

Payment

Payment_ID	Payment_type	Payment_status	Package_ID	Customer_ID
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CV\_Draft\_Info

Draft_ID	Draft_fileName	Draft_dateSubmitted	Info_contactInfo	Info_academicHistory	Info_professionalExperience	Info_qualificationsAndSkills	Info_awardsAndHonours	Customer_ID
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#### CV\_Generating\_Status

Status_code	Status_descriptions	Draft_ID	Customer_ID
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#### CV

CV_ID	CV_fileName	CV_dateGenerated
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#### Worker

Worker_ID	Worker_name	Worker_phoneNumber	Worker_emailAddress
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#### CV\_ConsultantWorker

Worker_ID	Worker_name	Worker_phoneNumber	Worker_emailAddress	Department_name
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#### Team\_LeaderWorker

Worker_ID	Worker_name	Worker_phoneNumber	Worker_emailAddress	Team_Name
-----------	-------------	--------------------	---------------------	-----------

#### Chat\_History

History_ID	History_title	History_date	Customer_ID
------------	---------------	--------------	-------------

#### Feedback

Feedback_ID	Feedback_title	Feedback_date	Customer_ID
-------------	----------------	---------------	-------------

#### Company

Company_ID	Company_name	Company_phoneNumber	Company_emailAddress
------------	--------------	---------------------	----------------------

Containing

Package_ID	Payment_ID
------------	------------

Having

Draft_ID
----------

Sending

Draft_ID	Worker_ID
----------	-----------

Updating

Worker_ID
-----------

Generating

Worker_ID	CV_ID
-----------	-------

Obtaining

Company_ID	CV_ID
------------	-------

CheckingFeedback

Worker_ID	Feedback_ID
-----------	-------------

CheckingHistory

Worker_ID	History_ID
-----------	------------

### 4.3 Normalization

1. Customer (Customer\_ID, Customer\_name, Customer\_emailAddress)  
PK: Customer\_ID

Customer_ID	Customer_name	Customer_emailAddress
Fd1		

**Fd1:** Customer\_ID → Customer\_name, Customer\_emailAddress

**1NF & 2NF & 3NF & BCNF:**

- Customer (Customer\_ID, Customer\_name, Customer\_emailAddress)  
PK: Customer\_ID

2. Phone\_Number (Customer\_phoneNumber, Customer\_ID)  
PK: Customer\_phoneNumber  
FK: Customer\_ID references Customer (Customer\_ID)

**1NF & 2NF & 3NF & BCNF:**

Phone\_Number (Customer\_phoneNumber, Customer\_ID)  
PK: Customer\_phoneNumber  
FK: Customer\_ID references Customer (Customer\_ID)

3. CV\_Package (Package\_ID, Package\_name, Package\_descriptions, Package\_price)  
PK: Package\_ID

Package_ID	Package_name	Package_descriptions	Package_price
Fd1			

**Fd1:** Package\_ID → Package\_name, Package\_descriptions, Package\_price

**1NF & 2NF & 3NF & BCNF:**

CV\_Package (Package\_ID, Package\_name, Package\_descriptions, Package\_price)  
PK: Package\_ID

4. CV\_TemplatesPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, No\_of\_directEmail\_CV\_templates, No\_of\_ATS\_CV\_templates)  
PK: Package\_ID

Package_ID	Package_name	Package_descriptions	Package_price	No_of_directEmail_CV_templates	No_of_ATS_CV_templates
Fd1					

**Fd1:** Package\_ID → Package\_name, Package\_descriptions, Package\_price, No\_of\_directEmail\_CV\_templates, No\_of\_ATS\_CV\_templates

**1NF & 2NF & 3NF & BCNF:**

- CV\_TemplatesPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, No\_of\_directEmail\_CV\_templates, No\_of\_ATS\_CV\_templates)  
PK: Package\_ID

5. CV\_Writing\_BasicPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, Duration)  
PK: Package\_ID

Package_ID	Package_name	Package_descriptions	Package_price	Duration
Fd1				

**Fd1:** Package\_ID → Package\_name, Package\_descriptions, Package\_price, Duration

**1NF & 2NF & 3NF & BCNF:**

- CV\_Writing\_BasicPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, Duration)  
PK: Package\_ID

6. CV\_Writing\_ProPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, Duration, No\_of\_topNotch\_ATS\_CV)  
PK: Package\_ID

Package_ID	Package_name	Package_descriptions	Package_price	Duration	No_of_topNotch_ATS_CV
Fd1					

**Fd1:** Package\_ID → Package\_name, Package\_descriptions, Package\_price, Duration, No\_of\_topNotch\_ATS\_CV

**1NF & 2NF & 3NF & BCNF:**

CV\_Writing\_ProPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, Duration, No\_of\_topNotch\_ATS\_CV)

PK: Package\_ID

7. WebinarPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, No\_of\_modules)

PK: Package\_ID

Package_ID	Package_name	Package_descriptions	Package_price	No_of_modules
Fd1				

**Fd1:** Package\_ID → Package\_name, Package\_descriptions, Package\_price, No\_of\_modules

**1NF & 2NF & 3NF & BCNF:**

WebinarPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, No\_of\_modules)

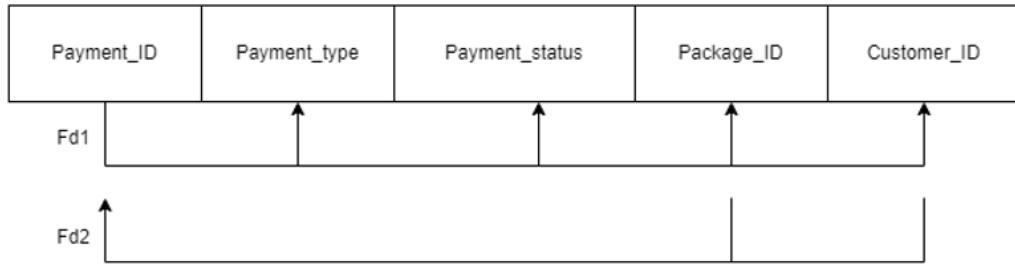
PK: Package\_ID

8. Payment (Payment\_ID, Payment\_type, Payment\_status, Package\_ID, Customer\_ID)

PK: Payment\_ID

FK: Package\_ID references CV\_Package (Package\_ID)

FK: Customer\_ID references Customer (Customer\_ID)



**Fd1:** Payment\_ID → Payment\_type, Payment\_status, Package\_ID, Customer\_ID

**Fd2:** Package\_ID, Customer\_ID → Payment\_ID

**1NF:**

Payment (Payment\_ID, Payment\_type, Payment\_status, Package\_ID, Customer\_ID)

PK: Payment\_ID

FK: Package\_ID references CV\_Package (Package\_ID)

FK: Customer\_ID references Customer (Customer\_ID)

**2NF & 3NF & BCNF:**

Payment (Payment\_ID, Payment\_type, Payment\_status)

PK: Payment\_ID

Package\_Customer\_Relation(Payment\_ID, Package\_ID, Customer\_ID)

PK: Payment\_ID

PK: Package\_ID

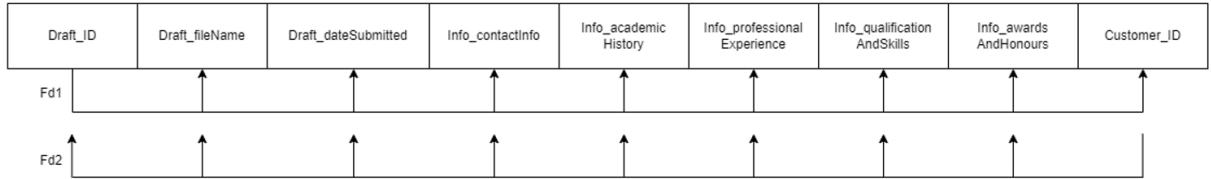
PK: Customer\_ID

FK: Payment\_ID references Payment (Payment\_ID)

FK: Package\_ID references CV\_Package (Package\_ID)

FK: Customer\_ID references Customer (Customer\_ID)

9. CV\_Draft\_Info (Draft\_ID, Draft\_fileName, Draft\_dateSubmitted, Info\_contactInfo, Info\_academicHistory, Info\_professionalExperience, Info\_qualificationAndSkills, Info\_awardsAndHonours, Customer\_ID)
- PK: Draft\_ID
- FK: Customer\_ID references Customer (Customer\_ID)



**Fd1:** Draft\_ID → Draft\_fileName, Draft\_dateSubmitted, Info\_contactInfo, Info\_academicHistory, Info\_professionalExperience, Info\_qualificationAndSkills, Info\_awardsAndHonours, Customer\_ID

**Fd2:** Customer\_ID → Draft\_ID, Draft\_fileName, Draft\_dateSubmitted, Info\_contactInfo, Info\_academicHistory, Info\_professionalExperience, Info\_qualificationAndSkills, Info\_awardsAndHonours

#### 1NF & 2NF & 3NF & BCNF:

CV\_Draft\_Info (Draft\_ID, Draft\_fileName, Draft\_dateSubmitted, Info\_contactInfo, Info\_academicHistory, Info\_professionalExperience, Info\_qualificationAndSkills, Info\_awardsAndHonours, Customer\_ID)

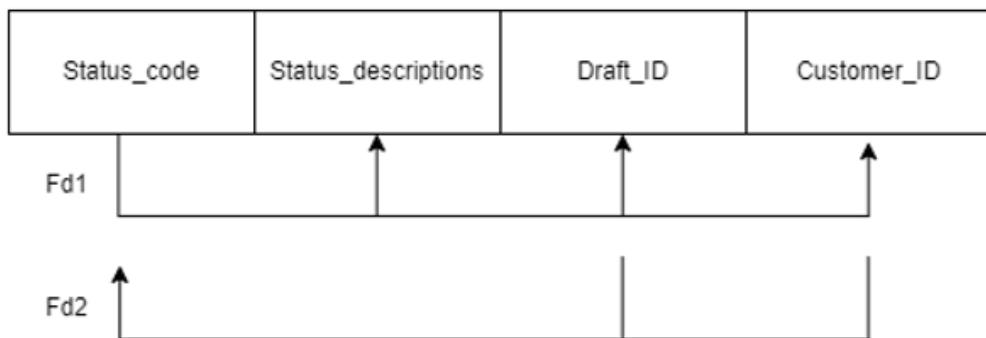
PK: Draft\_ID

FK: Customer\_ID references Customer (Customer\_ID)

10. CV\_Generating\_Status (Status\_code, Status\_descriptions, Draft\_ID, Customer\_ID)

FK: Draft\_ID references CV\_Draft\_Info (Draft\_ID)

FK: Customer\_ID references Customer (Customer\_ID)



**Fd1:** Status\_code → Status\_descriptions, Draft\_ID, Customer\_ID

**Fd2:** Draft\_ID, Customer\_ID → Status\_code

#### 1NF:

CV\_Generating\_Status (Status\_code, Status\_descriptions, Draft\_ID, Customer\_ID)

PK: Status\_code

FK: Draft\_ID references CV\_Draft\_Info (Draft\_ID)

FK: Customer\_ID references Customer (Customer\_ID)

**2NF & 3NF & BCNF:**

CV\_Generating\_Status (Status\_code, Status\_descriptions)

PK: Status\_code

Draft\_Customer\_Relation (Draft\_ID, Customer\_ID, Status\_code)

PK: Draft\_ID

PK: Customer\_ID

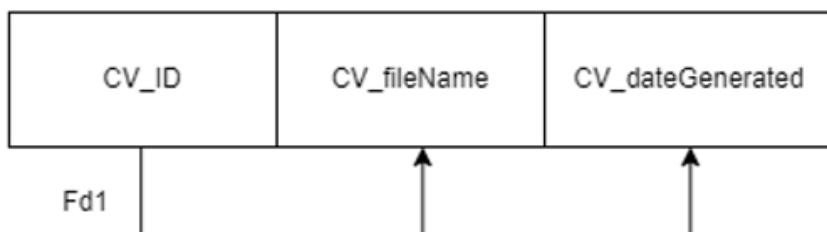
PK: Status\_code

FK: Draft\_ID references CV\_Draft\_Info (Draft\_ID)

FK: Customer\_ID references Customer (Customer\_ID)

FK: Status\_code references CV\_Generating\_Status (Status\_code)

11. CV (CV\_ID, CV\_fileName, CV\_dateGenerated)



**Fd1:** CV\_ID → CV\_fileName, CV\_dateGenerated

**1NF & 2NF & 3NF & BCNF:**

CV (CV\_ID, CV\_fileName, CV\_dateGenerated)

PK: CV\_ID

12. Worker (Worker\_ID, Worker\_name, Worker\_phoneNumber, Worker\_emailAddress)

PK: Worker\_ID

Worker_ID	Worker_name	Worker_phone Number	Worker_email Address
Fd1			

**Fd1:** Worker\_ID → Worker\_name, Worker\_phoneNumber, Worker\_emailAddress

**1NF & 2NF & 3NF & BCNF:**

Worker (Worker\_ID, Worker\_name, Worker\_phoneNumber, Worker\_emailAddress)

PK: Worker\_ID

13. CV\_ConsultantWorker (Worker\_ID, Worker\_name, Worker\_phoneNumber,

Worker\_emailAddress, Department\_name)

PK: Worker\_ID

Worker_ID	Worker_name	Worker_phone Number	Worker_email Address	Department_name
Fd1				
Fd2				

**Fd1:** Worker\_ID → Worker\_name, Worker\_phoneNumber, Worker\_emailAddress, Department\_name

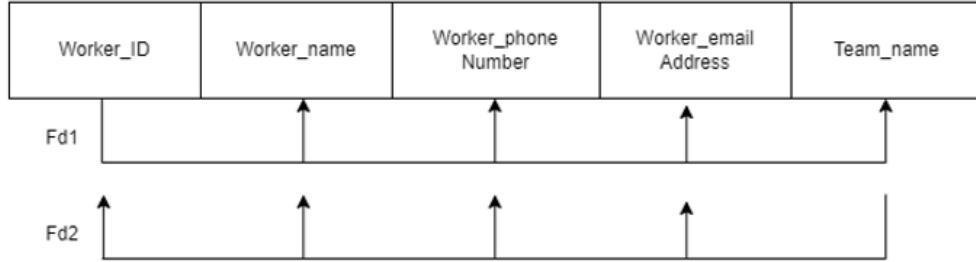
**Fd2:** Department\_name → Worker\_ID, Worker\_name, Worker\_phoneNumber, Worker\_emailAddress

**1NF & 2NF & 3NF & BCNF:**

CV\_ConsultantWorker (Worker\_ID, Worker\_name, Worker\_phoneNumber, Worker\_emailAddress, Department\_name)

PK: Worker\_ID

14. Team\_LeaderWorker (Worker\_ID, Worker\_name, Worker\_phoneNumber, Worker\_emailAddress, Team\_name)  
PK: Worker\_ID

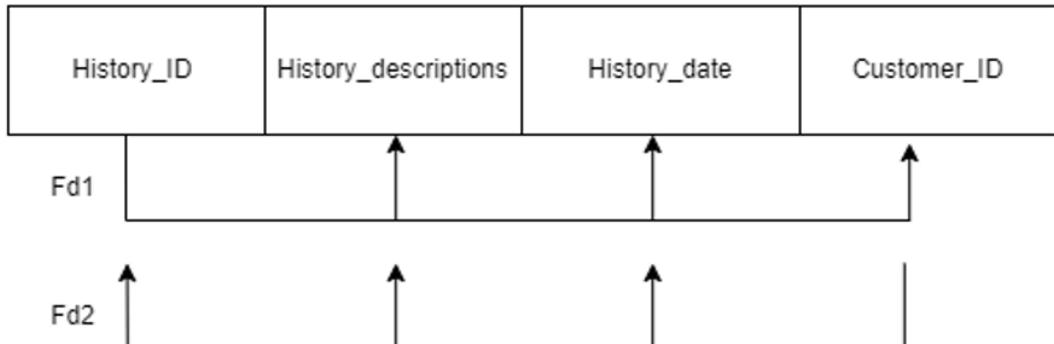


**Fd1:** Worker\_ID → Worker\_name, Worker\_phoneNumber, Worker\_emailAddress, Team\_name  
**Fd2:** Team\_name → Worker\_ID, Worker\_name, Worker\_phoneNumber, Worker\_emailAddress

#### 1NF & 2NF & 3NF & BCNF:

CV\_ConsultantWorker (Worker\_ID, Worker\_name, Worker\_phoneNumber, Worker\_emailAddress, Team\_name)  
PK: Worker\_ID

15. Chat\_History (History\_ID, History\_descriptions, History\_date, Customer\_ID)  
PK: History\_ID  
FK: Customer\_ID references Customer (Customer\_ID)



**Fd1:** History\_ID → History\_descriptions, History\_date, Customer\_ID  
**Fd2:** Customer\_ID → History\_ID, History\_descriptions, History\_date

**1NF & 2NF & 3NF & BCNF:**Chat\_History (History\_ID, History\_descriptions, History\_date, Customer\_ID)

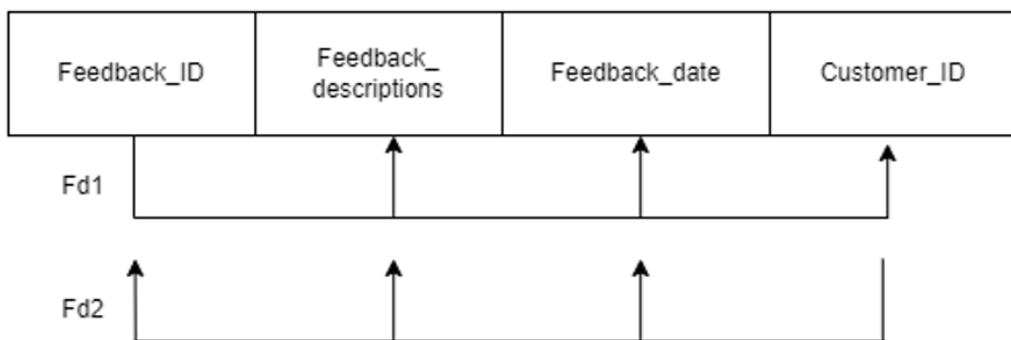
PK: History\_ID

FK: Customer\_ID references Customer (Customer\_ID)

16. Feedback (Feedback\_ID, Feedback\_descriptions, Feedback\_date, Customer\_ID)

PK: Feedback\_ID

FK: Customer\_ID references Customer (Customer\_ID)

**Fd1:**  $\text{Feedback\_ID} \rightarrow \text{Feedback\_descriptions}, \text{Feedback\_date}, \text{Customer\_ID}$ **Fd2:**  $\text{Customer\_ID} \rightarrow \text{Feedback\_ID}, \text{Feedback\_descriptions}, \text{Feedback\_date}$ **1NF & 2NF & 3NF & BCNF:**Feedback (Feedback\_ID, Feedback\_descriptions, Feedback\_date, Customer\_ID)

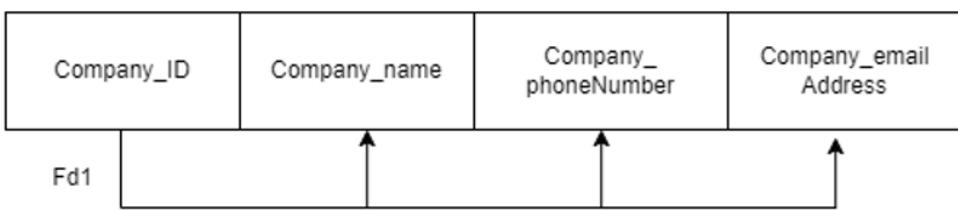
PK: Feedback\_ID

FK: Customer\_ID references Customer (Customer\_ID)

17. Company (Company\_ID, Company\_name, Company\_phoneNumber,

Company\_emailAddress)

PK: Company\_ID



**Fd1:** Company\_ID → Company\_name, Company\_phoneNumber,  
Company\_emailAddress

**1NF & 2NF & 3NF & BCNF:**

Company (Company\_ID, Company\_name, Company\_phoneNumber,  
Company\_emailAddress)

PK: Company\_ID

18. Containing (Package\_ID, Payment\_ID)

PK: Package\_ID

PK: Payment\_ID

FK: Package\_ID references CV\_Package (Package\_ID)

FK: Payment\_ID references Payment (Payment\_ID)

**Fd1:** Package\_ID, Payment\_ID → Package\_ID

**Fd2:** Package\_ID, Payment\_ID → Payment\_ID

**1NF & 2NF & 3NF & BCNF:**

Containing (Package\_ID, Payment\_ID)

PK: Package\_ID

PK: Payment\_ID

FK: Package\_ID references CV\_Package (Package\_ID)

FK: Payment\_ID references Payment (Payment\_ID)

19. Having (Draft\_ID)

PK: Draft\_ID

FK: Draft\_ID references CV\_Draft\_Info (Draft\_ID)

**Fd1:** Draft\_ID → Draft\_ID

**1NF & 2NF & 3NF & BCNF:**

Having (Draft\_ID)

PK: Draft\_ID

FK: Draft\_ID references CV\_Draft\_Info (Draft\_ID)

## 20. Sending (Draft\_ID, Worker\_ID)

PK: Draft\_ID

PK: Worker\_ID

FK: Draft\_ID references CV\_Draft\_Info (Draft\_ID)

FK: Worker\_ID references Worker (Worker\_ID)

**Fd1:** Draft\_ID, Worker\_ID → Draft\_ID

**Fd2:** Draft\_ID, Worker\_ID → Worker\_ID

**1NF & 2NF & 3NF & BCNF:**

Sending (Draft\_ID, Worker\_ID)

PK: Draft\_ID

PK: Worker\_ID

FK: Draft\_ID references CV\_Draft\_Info (Draft\_ID)

FK: Worker\_ID references Worker (Worker\_ID)

## 21. Updating (Worker\_ID)

PK: Worker\_ID

FK: Worker\_ID references Worker (Worker\_ID)

**1NF & 2NF & 3NF & BCNF:**

Updating (Worker\_ID)

PK: Worker\_ID

FK: Worker\_ID references Worker (Worker\_ID)

## 22. Generating (Worker\_ID, CV\_ID)

PK: Worker\_ID

PK: CV\_ID

FK: Worker\_ID references Worker (Worker\_ID)

FK: CV\_ID references CV (CV\_ID)

**Fd1:** Worker\_ID, CV\_ID → Worker\_ID

**Fd2:** Worker\_ID, CV\_ID → CV\_ID

**1NF & 2NF & 3NF & BCNF:**

Generating (Worker\_ID, CV\_ID)

PK: Worker\_ID

PK: CV\_ID

FK: Worker\_ID references Worker (Worker\_ID)

FK: CV\_ID references CV (CV\_ID)

23. Obtaining (Company\_ID, CV\_ID)

PK: Company\_ID

PK: CV\_ID

FK: Company\_ID references Company (Company\_ID)

FK: CV\_ID references CV (CV\_ID)

**Fd1:** Company\_ID, CV\_ID → Company\_ID

**Fd2:** Company\_ID, CV\_ID → CV\_ID

**1NF & 2NF & 3NF & BCNF:**

Obtaining (Company\_ID, CV\_ID)

PK: Company\_ID

PK: CV\_ID

FK: Company\_ID references Company (Company\_ID)

FK: CV\_ID references CV (CV\_ID)

24. CheckingFeedback (Worker\_ID, Feedback\_ID)

PK: Worker\_ID

PK: Feedback\_ID

FK: Worker\_ID references Worker (Worker\_ID)

FK: Feedback\_ID references Feedback (Feedback\_ID)

**Fd1:** Worker\_ID, Feedback\_ID → Worker\_ID

**Fd2:** Worker\_ID, Feedback\_ID → Feedback\_ID

**1NF & 2NF & 3NF & BCNF:**

CheckingFeedback (Worker\_ID, Feedback\_ID)

PK: Worker\_ID

PK: Feedback\_ID

FK: Worker\_ID references Worker (Worker\_ID)

FK: Feedback\_ID references Feedback (Feedback\_ID)

25. CheckingHistory (Worker\_ID, History\_ID)

PK: Worker\_ID

PK: History\_ID

FK: Worker\_ID references Worker (Worker\_ID)

FK: History\_ID references Chat\_History (History\_ID)

**Fd1:** Worker\_ID, History\_ID → Worker\_ID

**Fd2:** Worker\_ID, History\_ID → History\_ID

**1NF & 2NF & 3NF & BCNF:**

CheckingHistory (Worker\_ID, History\_ID)

PK: Worker\_ID

PK: History\_ID

FK: Worker\_ID references Worker (Worker\_ID)

FK: History\_ID references Chat\_History (History\_ID)

## 5.0 Database Relation Schemas (After Normalization)

1. Customer (Customer\_ID, Customer\_name, Customer\_phoneNumber, Customer\_emailAddress)  
PK: Customer\_ID
2. Phone\_Number (Customer\_phoneNumber, Customer\_ID)  
PK: Customer\_phoneNumber  
FK: Customer\_ID references Customer (Customer\_ID)
3. CV\_Package (Package\_ID, Package\_name, Package\_descriptions, Package\_price)  
PK: Package\_ID
4. CV\_TemplatesPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, No\_of\_directEmail\_CV\_templates, No\_of\_ATS\_CV\_templates)  
PK: Package\_ID
5. CV\_Writing\_BasicPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, Duration)  
PK: Package\_ID
6. CV\_Writing\_ProPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, Duration, No\_of\_topNotch\_ATS\_CV)  
PK: Package\_ID
7. WebinarPackage (Package\_ID, Package\_name, Package\_descriptions, Package\_price, No\_of\_modules)  
PK: Package\_ID
8. Payment (Payment\_ID, Payment\_type, Payment\_status)  
PK: Payment\_ID

9. Package\_Customer (Payment\_ID, Package\_ID, Customer\_ID)  
PK: Payment\_ID  
PK: Package\_ID  
PK: Customer\_ID  
FK: Payment\_ID references Payment (Payment\_ID)  
FK: Package\_ID references CV\_Package (Package\_ID)  
FK: Customer\_ID references Customer (Customer\_ID)
10. CV\_Draft\_Info (Draft\_ID, Draft\_fileName, Draft\_dateSubmitted, Info\_contactInfo, Info\_academicHistory, Info\_professionalExperience, Info\_qualificationAndSkills, Info\_awardsAndHonours, Customer\_ID)  
PK: Draft\_ID  
FK: Customer\_ID references Customer (Customer\_ID)
11. CV\_Generating\_Status (Status\_code, Status\_descriptions)  
PK: Status\_code
12. Draft\_Customer (Draft\_ID, Customer\_ID, Status\_code)  
PK: Draft\_ID  
PK: Customer\_ID  
PK: Status\_code  
FK: Draft\_ID references CV\_Draft\_Info (Draft\_ID)  
FK: Customer\_ID references Customer (Customer\_ID)  
FK: Status\_code references CV\_Generating\_Status (Status\_code)
13. CV (CV\_ID, CV\_fileName, CV\_dateGenerated)  
PK: CV\_ID
14. Worker (Worker\_ID, Worker\_name, Worker\_phoneNumber, Worker\_emailAddress)  
PK: Worker\_ID
15. CV\_ConsultantWorker (Worker\_ID, Worker\_name, Worker\_phoneNumber, Worker\_emailAddress, Department\_name)

PK: Worker\_ID

16. Team\_LeaderWorker (Worker\_ID, Worker\_name, Worker\_phoneNumber,  
Worker\_emailAddress, Team\_name)

PK: Worker\_ID

17. Chat\_History (History\_ID, History\_descriptions, History\_date, Customer\_ID)

PK: History\_ID

FK: Customer\_ID references Customer (Customer\_ID)

18. Feedback (Feedback\_ID, Feedback\_descriptions, Feedback\_date, Customer\_ID)

PK: Feedback\_ID

FK: Customer\_ID references Customer (Customer\_ID)

19. Company (Company\_ID, Company\_name, Company\_phoneNumber,

Company\_emailAddress)

PK: Company\_ID

20. Containing (Package\_ID, Payment\_ID)

PK: Package\_ID

PK: Payment\_ID

FK: Package\_ID references CV\_Package (Package\_ID)

FK: Payment\_ID references Payment (Payment\_ID)

21. Having (Draft\_ID)

PK: Draft\_ID

FK: Draft\_ID references CV\_Draft\_Info (Draft\_ID)

22. Sending (Draft\_ID, Worker\_ID)

PK: Draft\_ID

PK: Worker\_ID

FK: Draft\_ID references CV\_Draft\_Info (Draft\_ID)

FK: Worker\_ID references Worker (Worker\_ID)

23. Updating (Worker\_ID)

PK: Worker\_ID

FK: Worker\_ID references Worker (Worker\_ID)

24. Generating (Worker\_ID, CV\_ID)

PK: Worker\_ID

PK: CV\_ID

FK: Worker\_ID references Worker (Worker\_ID)

FK: CV\_ID references CV (CV\_ID)

25. Obtaining (Company\_ID, CV\_ID)

PK: Company\_ID

PK: CV\_ID

FK: Company\_ID references Company (Company\_ID)

FK: CV\_ID references CV (CV\_ID)

26. CheckingFeedback (Worker\_ID, Feedback\_ID)

PK: Worker\_ID

PK: Feedback\_ID

FK: Worker\_ID references Worker (Worker\_ID)

FK: Feedback\_ID references Feedback (Feedback\_ID)

27. CheckingHistory (Worker\_ID, History\_ID)

PK: Worker\_ID

PK: History\_ID

FK: Worker\_ID references Worker (Worker\_ID)

FK: History\_ID references Chat\_History (History\_ID)

Customer

Customer_ID	Customer_name	Customer_phoneNumber	Customer_emailAddress
-------------	---------------	----------------------	-----------------------

Phone\_Number

Customer_phoneNumber	Customer_ID
----------------------	-------------

CV\_Package

Package_ID	Package_name	Package_descriptions	Package_price
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CV\_TemplatesPackage

Package_ID	Package_name	Package_desc riptions	Package_price	No_of_direct Email_CV_t emplates	No_of_ATS_ CV_templates
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CV\_Writing\_BasicPackage

Package_ID	Package_name	Package_descriptions	Package_price	Duration
------------	--------------	----------------------	---------------	----------

CV\_Writing\_ProPackage

Package_ID	Package_name	Package_desc riptions	Package_price	Duration	No_of_topNo tch_ATS_CV
------------	--------------	--------------------------	---------------	----------	---------------------------

WebinarPackage

Package_ID	Package_name	Package_descriptions	Package_price	No_of_modules
------------	--------------	----------------------	---------------	---------------

Payment

Payment_ID	Payment_type	Payment_status
------------	--------------	----------------

Package\_Customer

Payment_ID	Package_ID	Customer_ID
------------	------------	-------------

CV\_Draft\_Info

Draft_ID	Draft_fileName	Draft_dateSubmitted	Info_contactInfo	Info_academicHistory	Info_professionalExperience	Info_qualificationsAndSkills	Info_awardsAndHonours	Customer_ID
----------	----------------	---------------------	------------------	----------------------	-----------------------------	------------------------------	-----------------------	-------------

CV\_Generating\_Status

Status_code	Status_descriptions
-------------	---------------------

Draft\_Customer

Draft_ID	Customer_ID	Status_code
----------	-------------	-------------

CV

CV_ID	CV_fileName	CV_dateSubmitted
-------	-------------	------------------

Worker

Worker_ID	Worker_name	Worker_phoneNumber	Worker_emailAddress
-----------	-------------	--------------------	---------------------

CV\_ConsultantWorker

Worker_ID	Worker_name	Worker_phoneNumber	Worker_emailAddress	Department_name
-----------	-------------	--------------------	---------------------	-----------------

CV\_ConsultantWorker

Worker_ID	Worker_name	Worker_phoneNumber	Worker_emailAddress	Team_name
-----------	-------------	--------------------	---------------------	-----------

Chat\_History

History_ID	History_descriptions	History_date	Customer_ID
------------	----------------------	--------------	-------------

Feedback

Feedback_ID	Feedback_descriptions	Feedback_date	Customer_ID
-------------	-----------------------	---------------	-------------

Company

Company_ID	Company_name	Company_phoneNumber	Company_emailAddress
------------	--------------	---------------------	----------------------

Containing

Package_ID	Payment_ID
------------	------------

Having

Draft_ID
----------

Sending

Draft_ID	Worker_ID
----------	-----------

Updating

Worker_ID
-----------

Generating

Worker_ID	CV_ID
-----------	-------

Obtaining

Company_ID	CV_ID
------------	-------

CheckingFeedback

Worker_ID	Feedback_ID
-----------	-------------

CheckingHistory

Worker_ID	History_ID
-----------	------------

## 6 SQL Statements (DDL & DML)

```
CREATE TABLE Customer (
    Customer_ID VARCHAR2(15), Customer_name VARCHAR2(30) NOT NULL,
    Customer_emailAddress VARCHAR2(30) NOT NULL,
    CONSTRAINT cus_cus_id_pk PRIMARY KEY (Customer_ID)
);
```

```
CREATE TABLE Phone_Number (
    Customer_phoneNumber VARCHAR2(12), Customer_ID VARCHAR2(15),
    CONSTRAINT pn_cus_pn_pk PRIMARY KEY (Customer_phoneNumber),
    CONSTRAINT phoneNum_fk FOREIGN KEY (Customer_ID) REFERENCES Customer
    (Customer_ID)
);
```

```
CREATE TABLE CV_Package (
    Package_ID VARCHAR2(15), Package_name VARCHAR2(30) NOT NULL,
    Package_descriptions VARCHAR2(4000) NOT NULL, Package_price DECIMAL(8,2) NOT
    NULL,
    CONSTRAINT cvpack_pack_id_pk PRIMARY KEY (Package_ID)
);
```

```
CREATE TABLE CV_TemplatesPackage (
    Package_ID VARCHAR2(15), Package_name VARCHAR2(30) NOT NULL,
    Package_descriptions VARCHAR2(4000) NOT NULL, Package_price DECIMAL(8,2) NOT
    NULL, No_of_directEmail_CV_templates NUMBER(1) NOT NULL,
    No_of_ATS_CV_templates NUMBER(1) NOT NULL,
    CONSTRAINT cvtp_pack_id_pk PRIMARY KEY (Package_ID)
);
```

```
CREATE TABLE CV_Writing_BasicPackage (
```

```
Package_ID VARCHAR2(15), Package_name VARCHAR2(30) NOT NULL,  
Package_descriptions VARCHAR2(4000) NOT NULL, Package_price DECIMAL(8,2) NOT  
NULL, Duration NUMBER(2) NOT NULL,  
CONSTRAINT cvwbp_pack_id_pk PRIMARY KEY (Package_ID)  
);
```

```
CREATE TABLE CV_Writing_ProPackage (  
Package_ID VARCHAR2(15), Package_name VARCHAR2(30) NOT NULL,  
Package_descriptions VARCHAR2(4000) NOT NULL, Package_price DECIMAL(8,2) NOT  
NULL, Duration NUMBER(1) NOT NULL, No_of_topNotch_ATS_CV NUMBER(1) NOT  
NULL,  
CONSTRAINT cvwpp_pack_id_pk PRIMARY KEY (Package_ID)  
);
```

```
CREATE TABLE CV_WebinarPackage (  
Package_ID VARCHAR2(15), Package_name VARCHAR2(30) NOT NULL,  
Package_descriptions VARCHAR2(4000) NOT NULL, Package_price DECIMAL(8,2) NOT  
NULL, No_of_modules NUMBER(1) NOT NULL,  
CONSTRAINT cvwp_pack_id_pk PRIMARY KEY (Package_ID)  
);
```

```
CREATE TABLE Payment (  
Payment_ID VARCHAR2(15), Payment_type CHAR (1) NOT NULL, Payment_status  
CHAR(1) NOT NULL,  
CONSTRAINT pay_pay_id_pk PRIMARY KEY (Payment_ID)  
);
```

```
CREATE TABLE Package_Customer (  
Payment_ID VARCHAR2(15), Package_ID VARCHAR2(15), Customer_ID VARCHAR2(15),  
CONSTRAINT pc_pay_id_pk PRIMARY KEY (Payment_ID, Package_ID, Customer_ID),  
CONSTRAINT pc_pay_id_fk FOREIGN KEY (Payment_ID) REFERENCES Payment  
(Payment_ID),
```

```
CONSTRAINT pc_pack_id_fk FOREIGN KEY (Package_ID) REFERENCES CV_Package  
(Package_ID),  
CONSTRAINT pc_cus_id_fk FOREIGN KEY (Customer_ID) REFERENCES Customer  
(Customer_ID)  
);
```

```
CREATE TABLE CV_Draft_Info (  
Draft_ID VARCHAR2(15), Draft_fileName VARCHAR2(40) NOT NULL, Draft_dateSubmitted  
DATE NOT NULL, Info_contactInfo VARCHAR2(4000) NOT NULL, Info_academicHistory  
VARCHAR2(4000) NOT NULL, Info_professionalExperience VARCHAR2(4000) NOT NULL,  
Info_qualificationAndSkills VARCHAR2(4000) NOT NULL, Info_awardsAndHonours  
VARCHAR2(4000) NOT NULL, Customer_ID VARCHAR2(15),  
CONSTRAINT cvdraft_draft_id_pk PRIMARY KEY (Draft_ID)  
CONSTRAINT cvdraft_cus_id_fk FOREIGN KEY (Customer_ID) REFERENCES Customer  
(Customer_ID)  
);
```

```
CREATE TABLE CV_Generating_Status (  
Status_code VARCHAR2(15), Status_descriptions VARCHAR2(4000) NOT NULL,  
CONSTRAINT cvgs_sc_pk PRIMARY KEY (Status_code)  
);
```

```
CREATE TABLE Draft_Customer (  
Draft_ID VARCHAR2(15), Customer_ID VARCHAR2(15), Status_code VARCHAR2 (15),  
CONSTRAINT dc_draft_id_pk PRIMARY KEY (Draft_ID, Customer_ID, status_code),  
CONSTRAINT dc_draft_id_fk FOREIGN KEY (Draft_ID) REFERENCES CV_Draft_Info  
(Draft_ID),  
CONSTRAINT dc_cus_id_fk FOREIGN KEY (Customer_ID) REFERENCES Customer  
(Customer_ID),  
CONSTRAINT dc_sc_id_fk FOREIGN KEY (Status_code) REFERENCES  
CV_Generating_Status (Status_code)
```

);

```
CREATE TABLE CV (
    CV_ID VARCHAR2(15), CV_fileName VARCHAR2(40) NOT NULL, CV_dateGenerated
    DATE NOT NULL,
    CONSTRAINT cv_cv_id_pk PRIMARY KEY (CV_ID)
);
```

```
CREATE TABLE Worker (
    Worker_ID VARCHAR2(15), Worker_name VARCHAR2(30) NOT NULL,
    Worker_phoneNumber VARCHAR2(12) NOT NULL, Worker_emailAddress VARCHAR2(30)
    NOT NULL,
    CONSTRAINT wk_wk_id_pk PRIMARY KEY (Worker_ID)
);
```

```
CREATE TABLE CV_ConsultantWorker (
    Worker_ID VARCHAR2(15), Worker_name VARCHAR2(30) NOT NULL,
    Worker_phoneNumber VARCHAR2(12) NOT NULL, Worker_emailAddress VARCHAR2(30)
    NOT NULL, Department_name VARCHAR2(30) NOT NULL,
    CONSTRAINT cvcw_wk_id_pk PRIMARY KEY (Worker_ID)
);
```

```
CREATE TABLE Team_LeaderWorker (
    Worker_ID VARCHAR2(15), Worker_name VARCHAR2(30) NOT NULL,
    Worker_phoneNumber VARCHAR2(12) NOT NULL, Worker_emailAddress VARCHAR2(30)
    NOT NULL, Team_name VARCHAR2(30) NOT NULL,
    CONSTRAINT tlwk_wk_id_pk PRIMARY KEY (Worker_ID)
);
```

```
CREATE TABLE Chat_History (
```

```
History_ID VARCHAR2(15), History_descriptions VARCHAR2(4000) NOT NULL,  
History_date DATE NOT NULL, Customer_ID VARCHAR2(15),  
CONSTRAINT ch_his_id_pk PRIMARY KEY (History_ID),  
CONSTRAINT ch_cus_id_fk FOREIGN KEY (Customer_ID) REFERENCES Customer  
(Customer_ID)  
);
```

```
CREATE TABLE Feedback (  
Feedback_ID VARCHAR2(15), Feedback_descriptions VARCHAR2(4000) NOT NULL,  
Feedback_date DATE NOT NULL, Customer_ID VARCHAR2(15),  
CONSTRAINT fb_fb_id_pk PRIMARY KEY (Feedback_ID),  
CONSTRAINT fb_cus_id_fk FOREIGN KEY (Customer_ID) REFERENCES Customer  
(Customer_ID)  
);
```

```
CREATE TABLE Company (  
Company_ID VARCHAR2(15), Company_name VARCHAR2(30) NOT NULL,  
Company_phoneNumber VARCHAR2(12) NOT NULL, Company_emailAddress  
VARCHAR2(30) NOT NULL,  
CONSTRAINT com_com_id_pk PRIMARY KEY (Company_ID)  
);
```

```
CREATE TABLE Containing (  
Package_ID VARCHAR2(15), Payment_ID VARCHAR2(15),  
CONSTRAINT con_pack_id_pk PRIMARY KEY (Package_ID, Payment_ID)  
CONSTRAINT con_pack_id_fk FOREIGN KEY (Package_ID) REFERENCES CV_Package  
(Package_ID),  
CONSTRAINT con_pay_id_fk FOREIGN KEY (Payment_ID) REFERENCES Payment  
(Payment_ID)  
);
```

```
CREATE TABLE "Having" (
    Draft_ID VARCHAR2(15),
    CONSTRAINT have_draft_id_pk PRIMARY KEY (Draft_ID),
    CONSTRAINT have_draft_id_fk FOREIGN KEY (Draft_ID) REFERENCES CV_Draft_Info
(Draft_ID)
);
```

```
CREATE TABLE Sending (
    Draft_ID VARCHAR2(15), Worker_ID VARCHAR2(15),
    CONSTRAINT send_draft_id_pk PRIMARY KEY (Draft_ID, Worker_ID),
    CONSTRAINT send_draft_id_fk FOREIGN KEY (Draft_ID) REFERENCES CV_Draft_Info
(Draft_ID),
    CONSTRAINT send_worker_id_fk FOREIGN KEY (Worker_ID) REFERENCES Worker
(Worker_ID)
);
```

```
CREATE TABLE Updating (
    Worker_ID VARCHAR2(15),
    CONSTRAINT up_worker_id_pk PRIMARY KEY (Worker_ID),
    CONSTRAINT up_worker_id_fk FOREIGN KEY (Worker_ID) REFERENCES Worker
(Worker_ID)
);
```

```
CREATE TABLE Generating (
    Worker_ID VARCHAR2(15), CV_ID VARCHAR2(15),
    CONSTRAINT gene_worker_id_pk PRIMARY KEY (Worker_ID, CV_ID),
    CONSTRAINT gene_worker_id_fk FOREIGN KEY (Worker_ID) REFERENCES Worker
(Worker_ID),
    CONSTRAINT gene_cv_id_fk FOREIGN KEY (CV_ID) REFERENCES CV (CV_ID)
);
```

```
CREATE TABLE Obtaining (
    Company_ID VARCHAR2(15), CV_ID VARCHAR2(15),
    CONSTRAINT obt_com_id_pk PRIMARY KEY (Company_ID, CV_ID),
    CONSTRAINT obt_com_id_fk FOREIGN KEY (Company_ID) REFERENCES Company
    (Company_ID),
    CONSTRAINT obt_cv_id_fk FOREIGN KEY (CV_ID) REFERENCES CV (CV_ID)
);
```

```
CREATE TABLE CheckingFeedback (
    Worker_ID VARCHAR2(15), Feedback_ID VARCHAR2(15),
    CONSTRAINT cfb_worker_id_pk PRIMARY KEY (Worker_ID, Feedback_ID),
    CONSTRAINT cfb_worker_id_fk FOREIGN KEY (Worker_ID) REFERENCES Worker
    (Worker_ID),
    CONSTRAINT cfb_fb_id_fk FOREIGN KEY (Feedback_ID) REFERENCES Feedback
    (Feedback_ID)
);
```

```
CREATE TABLE CheckingHistory (
    Worker_ID VARCHAR2(15), History_ID VARCHAR2(15),
    CONSTRAINT ch_worker_id_pk PRIMARY KEY (Worker_ID, History_ID),
    CONSTRAINT ch_worker_id_fk FOREIGN KEY (Worker_ID) REFERENCES Worker
    (Worker_ID),
    CONSTRAINT ch_his_id_fk FOREIGN KEY (History_ID) REFERENCES Chat_History
    (History_ID)
);
```

**--inserting rows--**

--customer--

```
INSERT INTO Customer
VALUES ('C0001','John','john@gmail.com');
```

```
INSERT INTO Customer
VALUES ('C0002','David','david@gmail.com');
INSERT INTO Customer
VALUES ('C0003','Apollo','apollo@gmail.com');
INSERT INTO Customer
VALUES ('C0004','Micheal','micheal@gmail.com');
INSERT INTO Customer
VALUES ('C0005','Richard','richard@gmail.com');
INSERT INTO Customer
VALUES ('C0006','Nick','nick@gmail.com');
INSERT INTO Customer
VALUES ('C0007','Benedict','benedict@gmail.com');
INSERT INTO Customer
VALUES ('C0008','Ben','ben@gmail.com');
INSERT INTO Customer
VALUES ('C0009','Benjamin','benjamin@gmail.com');
INSERT INTO Customer
VALUES ('C0010','Zoe','zoe@gmail.com');
INSERT INTO Customer
VALUES ('C0011','Lily','lily@gmail.com');
INSERT INTO Customer
VALUES ('C0012','James','james@gmail.com');
INSERT INTO Customer
VALUES ('C0013','Tom','tom@gmail.com');
INSERT INTO Customer
VALUES ('C0014','Ali','ali@gmail.com');
INSERT INTO Customer
VALUES ('C0015','Michelle','michelle@gmail.com');
INSERT INTO Customer
VALUES ('C0016','Bella','bella@gmail.com');
INSERT INTO Customer
```

```
VALUES ('C0017','Layla','layla@gmail.com');
INSERT INTO Customer
VALUES ('C0018','Charles','charles@gmail.com');
INSERT INTO Customer
VALUES ('C0019','Lisa','lisa@gmail.com');
INSERT INTO Customer
VALUES ('C0020','Jasmine','jasmine@gmail.com');
```

--phone number--

```
INSERT INTO Phone_Number
VALUES ('011-1111111','C0001');
INSERT INTO Phone_Number
VALUES ('011-11111112','C0001');
INSERT INTO Phone_Number
VALUES ('011-11111112','C0002');
INSERT INTO Phone_Number
VALUES ('011-11111113','C0003');
INSERT INTO Phone_Number
VALUES ('011-11111114','C0004');
INSERT INTO Phone_Number
VALUES ('011-11111115','C0005');
INSERT INTO Phone_Number
VALUES ('011-11111116','C0006');
INSERT INTO Phone_Number
VALUES ('011-11111117','C0007');
INSERT INTO Phone_Number
VALUES ('011-11111118','C0008');
INSERT INTO Phone_Number
VALUES ('011-11111119','C0009');
INSERT INTO Phone_Number
VALUES ('011-11111110','C0010');
```

```
INSERT INTO Phone_Number  
VALUES ('011-1111011','C0011');  
INSERT INTO Phone_Number  
VALUES ('011-1111012','C0012');  
INSERT INTO Phone_Number  
VALUES ('011-1111013','C0013');  
INSERT INTO Phone_Number  
VALUES ('011-1111014','C0014');  
INSERT INTO Phone_Number  
VALUES ('011-1111015','C0015');  
INSERT INTO Phone_Number  
VALUES ('011-1111016','C0016');  
INSERT INTO Phone_Number  
VALUES ('011-1111017','C0017');  
INSERT INTO Phone_Number  
VALUES ('011-1111018','C0018');  
INSERT INTO Phone_Number  
VALUES ('011-1111019','C0019');  
INSERT INTO Phone_Number  
VALUES ('011-1111020','C0020');
```

--CV\_Package--

```
INSERT INTO CV_Package  
VALUES ('P0001', 'CV Templates','2 ATS CV Templates with example. 3 Direct Email CV  
Templates - PPT. 3 Direct Email CV Templates - Canva.', 99.00);  
INSERT INTO CV_Package  
VALUES ('P0002', 'CV Writing Basic','1 Full Writing Top-Notch ATS CV. Powerful action verbs  
on CV. Duration 5- 10 Days', 159.00);  
INSERT INTO CV_Package  
VALUES ('P0003', 'CV Writing Pro','1 Full Writing Top-Notch ATS CV. Full Access Library.  
Duration 1-4 Days', 199.00);
```

```
INSERT INTO CV_Package  
VALUES ('P0004', 'Webinar','Cover 4 Modules. Certificate of Completion. Full Access Member Area', 250.00);
```

--CV\_TemplatesPackage--

--insert by using SELECT FROM, WHERE concept

```
INSERT INTO CV_TemplatesPackage  
SELECT Package_ID, Package_name, Package_descriptions, Package_price, 3 as  
No_of_directEmail_CV_templates, 2 as No_of_ATS_CV_templates  
FROM CV_Package  
WHERE Package_name='CV Templates';
```

--CV\_WritingBasicPackage--

```
INSERT INTO CV_Writing_BasicPackage  
SELECT Package_ID, Package_name, Package_descriptions, Package_price, 10 as Duration  
FROM CV_Package  
WHERE Package_name='CV Writing Basic';
```

--CV\_WritingProPackage--

```
INSERT INTO CV_Writing_ProPackage  
SELECT Package_ID, Package_name, Package_descriptions, Package_price, 4 as Duration, 1 as  
No_of_topNotch_ATS_CV  
FROM CV_Package  
WHERE Package_name='CV Writing Pro';
```

--CV\_WebinarPackage--

```
INSERT INTO CV_WebinarPackage  
SELECT Package_ID, Package_name, Package_descriptions, Package_price, 4 as  
No_of_modules  
FROM CV_Package  
WHERE Package_name='Webinar';
```

--Payment--

```
INSERT INTO Payment
VALUES ('PY0001', 'M','Y');
INSERT INTO Payment
VALUES ('PY0002', 'E','Y');
INSERT INTO Payment
VALUES ('PY0003', 'M','N');
INSERT INTO Payment
VALUES ('PY0004', 'E','Y');
INSERT INTO Payment
VALUES ('PY0005', 'M','Y');
INSERT INTO Payment
VALUES ('PY0006', 'E','Y');
INSERT INTO Payment
VALUES ('PY0007', 'M','Y');
INSERT INTO Payment
VALUES ('PY0008', 'E','Y');
INSERT INTO Payment
VALUES ('PY0009', 'M','Y');
INSERT INTO Payment
VALUES ('PY0010', 'E','Y');
INSERT INTO Payment
VALUES ('PY0011', 'M','Y');
INSERT INTO Payment
VALUES ('PY0012', 'M','Y');
INSERT INTO Payment
VALUES ('PY0013', 'E','Y');
INSERT INTO Payment
VALUES ('PY0014', 'M','Y');
INSERT INTO Payment
VALUES ('PY0015', 'F','Y');
```

```
INSERT INTO Payment
VALUES ('PY0016', 'F','Y');
INSERT INTO Payment
VALUES ('PY0017', 'F','Y');
INSERT INTO Payment
VALUES ('PY0018', 'F','Y');
INSERT INTO Payment
VALUES ('PY0019', 'V','Y');
INSERT INTO Payment
VALUES ('PY0020', 'V','Y');
INSERT INTO Payment
VALUES ('PY0021', 'V','Y');
```

--Package\_Customer--

```
INSERT INTO Package_Customer
VALUES ('PY0001','P0001','C0001');
INSERT INTO Package_Customer
VALUES ('PY0002','P0002','C0002');
INSERT INTO Package_Customer
VALUES ('PY0003','P0003','C0003');
INSERT INTO Package_Customer
VALUES ('PY0004','P0003','C0003');
INSERT INTO Package_Customer
VALUES ('PY0005','P0004','C0004');
INSERT INTO Package_Customer
VALUES ('PY0006','P0001','C0005');
INSERT INTO Package_Customer
VALUES ('PY0007','P0002','C0006');
INSERT INTO Package_Customer
VALUES ('PY0008','P0003','C0007');
INSERT INTO Package_Customer
```

```
VALUES ('PY0009','P0004','C0008');
INSERT INTO Package_Customer
VALUES ('PY0010','P0001','C0009');
INSERT INTO Package_Customer
VALUES ('PY0011','P0002','C0010');
INSERT INTO Package_Customer
VALUES ('PY0012','P0003','C0011');
INSERT INTO Package_Customer
VALUES ('PY0013','P0004','C0012');
INSERT INTO Package_Customer
VALUES ('PY0014','P0001','C0013');
INSERT INTO Package_Customer
VALUES ('PY0015','P0002','C0014');
INSERT INTO Package_Customer
VALUES ('PY0016','P0003','C0015');
INSERT INTO Package_Customer
VALUES ('PY0017','P0004','C0016');
INSERT INTO Package_Customer
VALUES ('PY0018','P0001','C0017');
INSERT INTO Package_Customer
VALUES ('PY0019','P0002','C0018');
INSERT INTO Package_Customer
VALUES ('PY0020','P0003','C0019');
INSERT INTO Package_Customer
VALUES ('PY0021','P0004','C0020');
```

--CV\_Draft\_Info--

-Inserting Special Values (SYSDATE)

```
INSERT INTO CV_Draft_Info
```

```
VALUES ('D0001', 'Draft1.txt', SYSDATE, '011-1111001', 'Degree in Computer Science',  
'Software Developer at ABC Tech, 3 years', 'Programming: Java, C++, Python - Project  
Management - Problem Solving', 'Best Computer Science Project Award - 2023', 'C0001');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0002', 'Draft2.txt', SYSDATE, '011-2222002', 'Diploma in Business  
Administration', 'Marketing Coordinator at XYZ Corp, 2 years', 'Marketing: Social Media,  
Campaign Management - Communication Skills - Team Collaboration', 'Outstanding Marketing  
Coordinator - 2022', 'C0002');
```

```
INSERT INTO CV_Draft_Info  
VALUES('D0003', 'Draft3.txt', SYSDATE, '011-3333003', 'Master in Electrical Engineering',  
'Electrical Engineer at Power Solutions Inc, 5 years', 'Electrical Engineering: Power Systems,  
Renewable Energy - Project Management - Technical Writing', 'Innovation in Renewable Energy  
Award - 2021', 'C0003');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0004', 'Draft4.txt', SYSDATE, '011-4444004', 'Certificate in Graphic Design',  
'Graphic Designer at Creative Designs Ltd, 2 years', 'Graphic Design: Adobe Creative Suite -  
Typography - Visual Communication', 'Best Graphic Design Campaign - 2023', 'C0004');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0005', 'Draft5.txt', SYSDATE, '011-5555005', 'PhD in Biochemistry', 'Research  
Scientist at BioTech Innovations, 4 years', 'Biochemistry: Molecular Biology, Bioinformatics -  
Research Methodology - Data Analysis', 'Excellence in Biochemical Research - 2020', 'C0005');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0006', 'Draft6.txt', SYSDATE, '011-6666006', 'Secondary School', 'Sales Associate  
at RetailMart, 1 year', 'Sales: Customer Service, Product Knowledge - Communication Skills -  
Problem Solving', 'Top Sales Performer - 2023', 'C0006');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0007', 'Draft7.txt', SYSDATE, '011-7777007', 'Certificate in Culinary Arts', 'Sous  
Chef at Gourmet Delights, 3 years', 'Culinary Arts: Food Preparation, Menu Planning - Team  
Management - Creativity', 'Best Dish Presentation - Culinary Festival - 2022', 'C0007');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0008', 'Draft8.txt', SYSDATE, '011-8888008', 'Bachelor in Psychology', 'Human  
Resources Specialist at People Dynamics Inc, 4 years', 'Psychology: Employee Relations,  
Recruitment - Communication Skills - Conflict Resolution', 'HR Excellence Award - 2021',  
'C0008');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0009', 'Draft9.txt', SYSDATE, '011-9999009', 'Diploma in Marketing', 'Marketing  
Manager at Global Solutions, 5 years', 'Marketing: Market Research, Campaign Planning -  
Leadership - Analytical Skills', 'Marketing Campaign of the Year - 2019', 'C0009');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0010', 'Draft10.txt', SYSDATE, '011-10101010', 'Master in Environmental Science',  
'Environmental Consultant at EcoSolutions, 3 years', 'Environmental Science: Environmental  
Impact Assessment, Sustainability - Project Management - Data Analysis', 'Environmental  
Excellence Award - 2022', 'C0010');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0011', 'Draft11.txt', SYSDATE, '011-11111111', 'Degree in Economics', 'Financial  
Analyst at Finance Experts Ltd, 2 years', 'Economics: Financial Analysis, Market Trends - Data  
Interpretation - Risk Management', 'Outstanding Financial Analyst - 2023', 'C0011');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0012', 'Draft12.txt', SYSDATE, '011-12121212', 'Certificate in Web Development',  
'Web Developer at Tech Innovators, 3 years', 'Web Development: HTML, CSS, JavaScript - User  
Interface Design - Problem Solving', 'Best Web Development Project - 2021', 'C0012');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0013', 'Draft13.txt', SYSDATE, '011-13131313', 'PhD in Astrophysics',  
'Astrophysicist at Space Research Institute, 4 years', 'Astrophysics: Space Exploration, Data  
Analysis - Scientific Research - Technical Writing', 'Contributions to Space Exploration Award -  
2020', 'C0013');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0014', 'Draft14.txt', SYSDATE, '011-14141414', 'Secondary School', 'Customer  
Service Representative at Service Solutions, 1 year', 'Customer Service: Problem Resolution,  
Communication Skills - Time Management', 'Customer Service Excellence Award - 2022',  
'C0014');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0015', 'Draft15.txt', SYSDATE, '011-15151515', 'Bachelor in Nursing', 'Registered  
Nurse at City Hospital, 3 years', 'Nursing: Patient Care, Medical Knowledge - Team  
Collaboration - Critical Thinking', 'Nursing Excellence Award - 2021', 'C0015');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0016', 'Draft16.txt', SYSDATE, '011-16161616', 'Diploma in Fashion Design',  
'Fashion Designer at Trendy Couture, 2 years', 'Fashion Design: Sketching, Textile Selection -  
Trend Analysis - Creativity', 'Fashion Designer of the Year - 2022', 'C0016');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0017', 'Draft17.txt', SYSDATE, '011-17171717', 'Certificate in Project  
Management', 'Project Manager at Project Solutions Inc, 4 years', 'Project Management:  
Planning, Execution - Team Leadership - Risk Management', 'Project Management Excellence  
Award - 2020', 'C0017');
```

```
INSERT INTO CV_Draft_Info
```

```
VALUES ('D0018', 'Draft18.txt', SYSDATE, '011-18181818', 'Master in Sociology', 'Sociologist at Social Dynamics Research, 3 years', 'Sociology: Social Research, Data Analysis - Report Writing - Community Engagement', 'Sociologist of the Year - 2021', 'C0018');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0019', 'Draft19.txt', SYSDATE, '011-19191919', 'Bachelor in Computer Engineering', 'Software Engineer at Tech Innovations, 4 years', 'Software Engineering: Coding, Testing - Software Development Life Cycle - Problem Solving', 'Software Engineer of the Year - 2022', 'C0019');
```

```
INSERT INTO CV_Draft_Info  
VALUES ('D0020', 'Draft20.txt', SYSDATE, '011-20202020', 'Certificate in Digital Marketing', 'Digital Marketing Specialist at MarketingPro, 2 years', 'Digital Marketing: Social Media Marketing, SEO - Analytics - Creative Campaigns', 'Digital Marketing Excellence Award - 2023', 'C0020');
```

--CV\_Generating\_Status--

```
INSERT INTO CV_Generating_Status  
VALUES ('S0001', 'Received');
```

```
INSERT INTO CV_Generating_Status  
VALUES ('S0002', 'Processing');
```

```
INSERT INTO CV_Generating_Status  
VALUES ('S0003', 'Sent');
```

--Draft\_Customer--

```
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0001', 'C0001', 'S0001');
```

```
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0002', 'C0002', 'S0002');
```

```
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0003',  
'C0003', 'S0003');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0004',  
'C0004', 'S0001');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0005',  
'C0005', 'S0002');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0006',  
'C0006', 'S0003');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0007',  
'C0007', 'S0001');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0008',  
'C0008', 'S0002');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0009',  
'C0009', 'S0003');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0010',  
'C0010', 'S0001');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0011',  
'C0011', 'S0002');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0012',  
'C0012', 'S0003');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0013',  
'C0013', 'S0001');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0014',  
'C0014', 'S0002');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0015',  
'C0015', 'S0003');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0016',  
'C0016', 'S0001');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0017',  
'C0017', 'S0002');
```

```
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0018',  
'C0018', 'S0003');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0019',  
'C0019', 'S0001');  
INSERT INTO Draft_Customer (Draft_ID, Customer_ID, Status_code) VALUES ('D0020',  
'C0020', 'S0002');
```

--CV--

```
INSERT INTO CV VALUES ('CV0001', 'CV_0001.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0002', 'CV_0002.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0003', 'CV_0003.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0004', 'CV_0004.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0005', 'CV_0005.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0006', 'CV_0006.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0007', 'CV_0007.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0008', 'CV_0008.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0009', 'CV_0009.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0010', 'CV_0010.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0011', 'CV_0011.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0012', 'CV_0012.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0013', 'CV_0013.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0014', 'CV_0014.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0015', 'CV_0015.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0016', 'CV_0016.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0017', 'CV_0017.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0018', 'CV_0018.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0019', 'CV_0019.pdf', SYSDATE);  
INSERT INTO CV VALUES ('CV0020', 'CV_0020.pdf', SYSDATE);
```

--Worker--

```
INSERT INTO Worker VALUES ('CW0001', 'John Doe', '012-1111001',
'john_doe@gmail.com');

INSERT INTO Worker VALUES ('CW0002', 'Jane Smith', '012-1111002',
'jane_smith@gmail.com');

INSERT INTO Worker VALUES ('CW0003', 'Michael Johnson', '012-1111003',
'michael_johnson@gmail.com');

INSERT INTO Worker VALUES ('CW0004', 'Emily Brown', '012-1111004',
'emily_brown@gmail.com');

INSERT INTO Worker VALUES ('CW0005', 'Daniel Wilson', '012-1111005',
'daniel_wilson@gmail.com');

INSERT INTO Worker VALUES ('CW0006', 'Olivia Davis', '012-1111006',
'olivia_davis@gmail.com');

INSERT INTO Worker VALUES ('CW0007', 'William Martinez', '012-1111007',
'william_martinez@gmail.com');

INSERT INTO Worker VALUES ('CW0008', 'Sophia Miller', '012-1111008',
'sophia_miller@gmail.com');

INSERT INTO Worker VALUES ('CW0009', 'Benjamin Anderson', '012-1111009',
'benjamin_anderson@gmail.com');

INSERT INTO Worker VALUES ('CM0010', 'Ava Taylor', '012-1111010',
'ava_taylor@gmail.com');

INSERT INTO Worker VALUES ('CM0011', 'James White', '012-1111011',
'james_white@gmail.com');

INSERT INTO Worker VALUES ('CM0012', 'Emma Harris', '012-1111012',
'emma_harris@gmail.com');

INSERT INTO Worker VALUES ('CM0013', 'Alexander Thomas', '012-1111013',
'alexander_thomas@gmail.com');

INSERT INTO Worker VALUES ('CM0014', 'Mia Garcia', '012-1111014',
'mia_garcia@gmail.com');

INSERT INTO Worker VALUES ('CM0015', 'Ethan Lopez', '012-1111015',
'ethan_lopez@gmail.com');
```

```

INSERT INTO Worker VALUES ('T0001', 'Isabella Moore', '012-1111016',
'isabella_moore@gmail.com');

INSERT INTO Worker VALUES ('T0002', 'Jackson Taylor', '012-1111017',
'jackson_taylor@gmail.com');

INSERT INTO Worker VALUES ('T0003', 'Sophie Clark', '012-1111018',
'sophie_clark@gmail.com');

INSERT INTO Worker VALUES ('TM0004', 'Logan Wright', '012-1111019',
'logan_wright@gmail.com');

INSERT INTO Worker VALUES ('TM0005', 'Grace Hall', '012-1111020',
'grace_hall@gmail.com');

```

--CV\_ConstantWorker--

--insert by using SELECT FROM, WHERE, LIKE, CASE

```
INSERT INTO CV_ConstantWorker
```

SELECT

```

Worker_ID,
Worker_name,
Worker_phoneNumber,
Worker_emailAddress,
```

CASE

```

WHEN Worker_ID LIKE 'CW%' THEN 'IT'
WHEN Worker_ID LIKE 'CM%' THEN 'Marketing'
```

END AS Department\_name

FROM Worker

WHERE Worker\_ID LIKE 'CW%' OR Worker\_ID LIKE 'CM%';

--Team\_LeaderWorker--

```
INSERT INTO Team_LeaderWorker
```

SELECT

```

Worker_ID,
Worker_name,
```

```
Worker_phoneNumber,  
Worker_emailAddress,  
CASE  
    WHEN Worker_ID LIKE 'TM%' THEN 'Marketing'  
    ELSE 'IT'  
END AS Team_name  
FROM Worker  
WHERE Worker_ID LIKE 'T%';
```

#### --Chat\_History--

```
INSERT INTO Chat_History VALUES ('H0001', 'Welcome to our CV consultation service!',  
SYSDATE, 'C0001');  
INSERT INTO Chat_History VALUES ('H0002', 'Hello there! How can we assist you today?',  
SYSDATE, 'C0001');  
INSERT INTO Chat_History VALUES ('H0003', 'We are here to help you with your CV and job  
search.', SYSDATE, 'C0001');  
INSERT INTO Chat_History VALUES ('H0004', 'Feel free to ask any questions or share your  
concerns.', SYSDATE, 'C0001');  
INSERT INTO Chat_History VALUES ('H0005', 'Hi! Welcome to our CV consultation. How can  
we support you?', SYSDATE, 'C0001');  
INSERT INTO Chat_History VALUES ('H0006', 'We can discuss your CV, job goals, and any  
specific requirements you have.', SYSDATE, 'C0001');  
INSERT INTO Chat_History VALUES ('H0007', 'Let us know how we can make your job search  
more successful.', SYSDATE, 'C0001');  
INSERT INTO Chat_History VALUES ('H0008', 'Hi there! Ready to enhance your CV and  
career prospects?', SYSDATE, 'C0001');  
INSERT INTO Chat_History VALUES ('H0009', 'Feel free to share your CV or ask for advice on  
improving it.', SYSDATE, 'C0001');  
INSERT INTO Chat_History VALUES ('H0010', 'Hello! Our team is excited to assist you with  
your CV and job applications.', SYSDATE, 'C0001');
```

INSERT INTO Chat\_History VALUES ('H0011', 'Let us work together to create a standout CV for your dream job.', SYSDATE, 'C0001');

INSERT INTO Chat\_History VALUES ('H0012', 'Welcome aboard! We are here to guide you in your job search journey.', SYSDATE, 'C0001');

INSERT INTO Chat\_History VALUES ('H0013', 'Hi! Ready to craft a CV that showcases your skills and experience?', SYSDATE, 'C0001');

INSERT INTO Chat\_History VALUES ('H0014', 'Feel free to share your career goals so we can tailor our advice accordingly.', SYSDATE, 'C0001');

INSERT INTO Chat\_History VALUES ('H0015', 'Hello! Let us discuss how we can make your CV stand out in the job market.', SYSDATE, 'C0001');

INSERT INTO Chat\_History VALUES ('H0016', 'Hi there! We are here to help you build a compelling CV for your job applications.', SYSDATE, 'C0001');

INSERT INTO Chat\_History VALUES ('H0017', 'Welcome! Feel free to ask any questions about our CV services.', SYSDATE, 'C0001');

INSERT INTO Chat\_History VALUES ('H0018', 'Hi! Ready to transform your CV into a powerful tool for job success?', SYSDATE, 'C0001');

INSERT INTO Chat\_History VALUES ('H0019', 'We are excited to assist you in creating an impactful CV. How can we start?', SYSDATE, 'C0001');

INSERT INTO Chat\_History VALUES ('H0020', 'Hello! Let us discuss your CV and career aspirations. We are here to help!', SYSDATE, 'C0001');

#### --Feedback--

INSERT INTO Feedback VALUES ('F00001', 'Service was excellent, very user-friendly platform!', SYSDATE, 'C0001');

INSERT INTO Feedback VALUES ('F00002', 'The team provided great assistance. Service is highly recommended!', SYSDATE, 'C0002');

INSERT INTO Feedback VALUES ('F00003', 'Very satisfied with the support. User interface is intuitive.', SYSDATE, 'C0003');

INSERT INTO Feedback VALUES ('F00004', 'Exceptional service! The platform is user-friendly and efficient.', SYSDATE, 'C0004');

INSERT INTO Feedback VALUES ('F00005', 'The assistance received exceeded expectations.  
User-friendly interface.', SYSDATE, 'C0005');

INSERT INTO Feedback VALUES ('F00006', 'Great service, very easy to navigate. Kudos to the  
team!', SYSDATE, 'C0006');

INSERT INTO Feedback VALUES ('F00007', 'Highly impressed with the user-friendly platform  
and excellent support.', SYSDATE, 'C0007');

INSERT INTO Feedback VALUES ('F00008', 'Service was excellent. The platform is intuitive  
and efficient.', SYSDATE, 'C0008');

INSERT INTO Feedback VALUES ('F00009', 'Very user-friendly and the support team is  
responsive and helpful.', SYSDATE, 'C0009');

INSERT INTO Feedback VALUES ('F00010', 'Excellent service, user-friendly interface. Highly  
recommended!', SYSDATE, 'C0010');

INSERT INTO Feedback VALUES ('F00011', 'The team is responsive and the platform is easy to  
use. Great service!', SYSDATE, 'C0011');

INSERT INTO Feedback VALUES ('F00012', 'Satisfied with the service. The platform is  
user-friendly and efficient.', SYSDATE, 'C0012');

INSERT INTO Feedback VALUES ('F00013', 'Great support and user-friendly platform. Very  
pleased with the service.', SYSDATE, 'C0013');

INSERT INTO Feedback VALUES ('F00014', 'Service was excellent. The platform is  
user-friendly and efficient.', SYSDATE, 'C0014');

INSERT INTO Feedback VALUES ('F00015', 'The team provided exceptional service.  
User-friendly interface.', SYSDATE, 'C0015');

INSERT INTO Feedback VALUES ('F00016', 'Very satisfied with the service. User-friendly  
platform and great support.', SYSDATE, 'C0016');

INSERT INTO Feedback VALUES ('F00017', 'Excellent support and user-friendly platform.  
Highly recommended!', SYSDATE, 'C0017');

INSERT INTO Feedback VALUES ('F00018', 'The team is responsive, and the platform is very  
user-friendly.', SYSDATE, 'C0018');

INSERT INTO Feedback VALUES ('F00019', 'Service exceeded expectations. User-friendly and  
efficient platform.', SYSDATE, 'C0019');

INSERT INTO Feedback VALUES ('F00020', 'Highly satisfied with the support received. The platform is user-friendly.', SYSDATE, 'C0020');

--Company--

INSERT INTO Company VALUES ('CP0001', 'ABC Corp', '014-1111001', 'abc.corp@gmail.com');

INSERT INTO Company VALUES ('CP0002', 'XYZ Ltd', '015-2222002', 'xyz.ltd@gmail.com');

INSERT INTO Company VALUES ('CP0003', 'Tech Solutions', '016-3333003', 'tech.solutions@gmail.com');

INSERT INTO Company VALUES ('CP0004', 'Innovate Inc', '017-4444004', 'innovate.inc@gmail.com');

INSERT INTO Company VALUES ('CP0005', 'Global Services', '018-5555005', 'global.services@gmail.com');

INSERT INTO Company VALUES ('CP0006', 'Smart Ventures', '019-6666006', 'smart.ventures@gmail.com');

INSERT INTO Company VALUES ('CP0007', 'Elite Innovations', '020-7777007', 'elite.innovations@gmail.com');

INSERT INTO Company VALUES ('CP0008', 'Bright Ideas Co', '021-8888008', 'bright.ideas@gmail.com');

INSERT INTO Company VALUES ('CP0009', 'Prime Tech', '022-9999009', 'prime.tech@gmail.com');

INSERT INTO Company VALUES ('CP0010', 'Pro Solutions', '023-10101010', 'pro.solutions@gmail.com');

INSERT INTO Company VALUES ('CP0011', 'TechGenius', '024-1111111', 'tech.genius@gmail.com');

INSERT INTO Company VALUES ('CP0012', 'Infinite Innovations', '025-1212121', 'infinite.innovations@gmail.com');

INSERT INTO Company VALUES ('CP0013', 'Future Tech', '026-1313131', 'future.tech@gmail.com');

INSERT INTO Company VALUES ('CP0014', 'Global Innovators', '027-1414141', 'global.innovators@gmail.com');

```
INSERT INTO Company VALUES ('CP0015', 'Inventive Solutions', '028-1515151',
'inventive.solutions@gmail.com');

INSERT INTO Company VALUES ('CP0016', 'Dynamic Technologies', '029-1616161',
'dynamic.technologies@gmail.com');

INSERT INTO Company VALUES ('CP0017', 'InnoSys', '030-1717171', 'innosys@gmail.com');

INSERT INTO Company VALUES ('CP0018', 'Strategic Solutions', '031-1818181',
'strategic.solutions@gmail.com');

INSERT INTO Company VALUES ('CP0019', 'TechMasters', '032-1919191',
'techmasters@gmail.com');

INSERT INTO Company VALUES ('CP0020', 'NexGen Innovations', '033-2020202',
'nexgen.innovations@gmail.com');
```

--Containing--

```
INSERT INTO Containing VALUES ('P0001','PY0001');
INSERT INTO Containing VALUES ('P0002','PY0002');
INSERT INTO Containing VALUES ('P0003','PY0003');
INSERT INTO Containing VALUES ('P0003','PY0004');
INSERT INTO Containing VALUES ('P0004','PY0005');
INSERT INTO Containing VALUES ('P0001','PY0006');
INSERT INTO Containing VALUES ('P0002','PY0007');
INSERT INTO Containing VALUES ('P0003','PY0008');
INSERT INTO Containing VALUES ('P0004','PY0009');
INSERT INTO Containing VALUES ('P0001','PY0010');
INSERT INTO Containing VALUES ('P0002','PY0011');
INSERT INTO Containing VALUES ('P0003','PY0012');
INSERT INTO Containing VALUES ('P0004','PY0013');
INSERT INTO Containing VALUES ('P0001','PY0014');
INSERT INTO Containing VALUES ('P0002','PY0015');
INSERT INTO Containing VALUES ('P0003','PY0016');
INSERT INTO Containing VALUES ('P0004','PY0017');
INSERT INTO Containing VALUES ('P0001','PY0018');
```

```
INSERT INTO Containing VALUES ('P0002','PY0019');
INSERT INTO Containing VALUES ('P0003','PY0020');
INSERT INTO Containing VALUES ('P0004','PY0021');
```

--Having--

```
INSERT INTO "Having" VALUES ('D0001');
INSERT INTO "Having" VALUES ('D0002');
INSERT INTO "Having" VALUES ('D0003');
INSERT INTO "Having" VALUES ('D0004');
INSERT INTO "Having" VALUES ('D0005');
INSERT INTO "Having" VALUES ('D0006');
INSERT INTO "Having" VALUES ('D0007');
INSERT INTO "Having" VALUES ('D0008');
INSERT INTO "Having" VALUES ('D0009');
INSERT INTO "Having" VALUES ('D0010');
INSERT INTO "Having" VALUES ('D0011');
INSERT INTO "Having" VALUES ('D0012');
INSERT INTO "Having" VALUES ('D0013');
INSERT INTO "Having" VALUES ('D0014');
INSERT INTO "Having" VALUES ('D0015');
INSERT INTO "Having" VALUES ('D0016');
INSERT INTO "Having" VALUES ('D0017');
INSERT INTO "Having" VALUES ('D0018');
INSERT INTO "Having" VALUES ('D0019');
INSERT INTO "Having" VALUES ('D0020');
```

--Sending--

```
INSERT INTO Sending VALUES ('D0001', 'CW0001');
INSERT INTO Sending VALUES ('D0002', 'CW0002');
INSERT INTO Sending VALUES ('D0003', 'CW0003');
INSERT INTO Sending VALUES ('D0004', 'CW0004');
```

```
INSERT INTO Sending VALUES ('D0005', 'CW0005');
INSERT INTO Sending VALUES ('D0006', 'CW0006');
INSERT INTO Sending VALUES ('D0007', 'CW0007');
INSERT INTO Sending VALUES ('D0008', 'CW0008');
INSERT INTO Sending VALUES ('D0009', 'CW0009');
INSERT INTO Sending VALUES ('D0010', 'CM0010');
INSERT INTO Sending VALUES ('D0011', 'CM0011');
INSERT INTO Sending VALUES ('D0012', 'CM0012');
INSERT INTO Sending VALUES ('D0013', 'CM0013');
INSERT INTO Sending VALUES ('D0014', 'CM0014');
INSERT INTO Sending VALUES ('D0015', 'CM0015');
INSERT INTO Sending VALUES ('D0016', 'CW0001');
INSERT INTO Sending VALUES ('D0017', 'CW0002');
INSERT INTO Sending VALUES ('D0018', 'CW0003');
INSERT INTO Sending VALUES ('D0019', 'CW0004');
INSERT INTO Sending VALUES ('D0020', 'CW0005');
```

--Updating--

```
INSERT INTO Updating VALUES ('CW0001');
INSERT INTO Updating VALUES ('CW0002');
INSERT INTO Updating VALUES ('CW0003');
INSERT INTO Updating VALUES ('CW0004');
INSERT INTO Updating VALUES ('CW0005');
INSERT INTO Updating VALUES ('CW0006');
INSERT INTO Updating VALUES ('CW0007');
INSERT INTO Updating VALUES ('CW0008');
INSERT INTO Updating VALUES ('CW0009');
INSERT INTO Updating VALUES ('CM0010');
INSERT INTO Updating VALUES ('CM0011');
INSERT INTO Updating VALUES ('CM0012');
```

```
INSERT INTO Updating VALUES ('CM0013');  
INSERT INTO Updating VALUES ('CM0014');  
INSERT INTO Updating VALUES ('CM0015');
```

--Generating--

```
INSERT INTO Generating VALUES ('CW0001', 'CV0001');  
INSERT INTO Generating VALUES ('CW0002', 'CV0002');  
INSERT INTO Generating VALUES ('CW0003', 'CV0003');  
INSERT INTO Generating VALUES ('CW0004', 'CV0004');  
INSERT INTO Generating VALUES ('CW0005', 'CV0005');  
INSERT INTO Generating VALUES ('CW0006', 'CV0006');  
INSERT INTO Generating VALUES ('CW0007', 'CV0007');  
INSERT INTO Generating VALUES ('CW0008', 'CV0008');  
INSERT INTO Generating VALUES ('CW0009', 'CV0009');  
INSERT INTO Generating VALUES ('CM0010', 'CV0010');  
INSERT INTO Generating VALUES ('CM0011', 'CV0011');  
INSERT INTO Generating VALUES ('CM0012', 'CV0012');  
INSERT INTO Generating VALUES ('CM0013', 'CV0013');  
INSERT INTO Generating VALUES ('CM0014', 'CV0014');  
INSERT INTO Generating VALUES ('CM0015', 'CV0015');  
INSERT INTO Generating VALUES ('CW0001', 'CV0016');  
INSERT INTO Generating VALUES ('CW0002', 'CV0017');  
INSERT INTO Generating VALUES ('CW0003', 'CV0018');  
INSERT INTO Generating VALUES ('CW0004', 'CV0019');  
INSERT INTO Generating VALUES ('CW0005', 'CV0020');
```

--Obtaining--

```
INSERT INTO Obtaining VALUES ('CP0001', 'CV0001');  
INSERT INTO Obtaining VALUES ('CP0002', 'CV0002');  
INSERT INTO Obtaining VALUES ('CP0003', 'CV0003');  
INSERT INTO Obtaining VALUES ('CP0004', 'CV0004');
```

```
INSERT INTO Obtaining VALUES ('CP0005', 'CV0005');
INSERT INTO Obtaining VALUES ('CP0006', 'CV0006');
INSERT INTO Obtaining VALUES ('CP0007', 'CV0007');
INSERT INTO Obtaining VALUES ('CP0008', 'CV0008');
INSERT INTO Obtaining VALUES ('CP0009', 'CV0009');
INSERT INTO Obtaining VALUES ('CP0010', 'CV0010');
INSERT INTO Obtaining VALUES ('CP0011', 'CV0011');
INSERT INTO Obtaining VALUES ('CP0012', 'CV0012');
INSERT INTO Obtaining VALUES ('CP0013', 'CV0013');
INSERT INTO Obtaining VALUES ('CP0014', 'CV0014');
INSERT INTO Obtaining VALUES ('CP0015', 'CV0015');
INSERT INTO Obtaining VALUES ('CP0016', 'CV0016');
INSERT INTO Obtaining VALUES ('CP0017', 'CV0017');
INSERT INTO Obtaining VALUES ('CP0018', 'CV0018');
INSERT INTO Obtaining VALUES ('CP0019', 'CV0019');
INSERT INTO Obtaining VALUES ('CP0020', 'CV0020');
```

--CheckingFeedback--

```
INSERT INTO CheckingFeedback VALUES ('CW0001', 'F00001');
INSERT INTO CheckingFeedback VALUES ('CW0002', 'F00002');
INSERT INTO CheckingFeedback VALUES ('CW0003', 'F00003');
INSERT INTO CheckingFeedback VALUES ('CW0004', 'F00004');
INSERT INTO CheckingFeedback VALUES ('CW0005', 'F00005');
INSERT INTO CheckingFeedback VALUES ('CW0006', 'F00006');
INSERT INTO CheckingFeedback VALUES ('CW0007', 'F00007');
INSERT INTO CheckingFeedback VALUES ('CW0008', 'F00008');
INSERT INTO CheckingFeedback VALUES ('CW0009', 'F00009');
INSERT INTO CheckingFeedback VALUES ('CM0010', 'F00010');
INSERT INTO CheckingFeedback VALUES ('CM0011', 'F00011');
INSERT INTO CheckingFeedback VALUES ('CM0012', 'F00012');
INSERT INTO CheckingFeedback VALUES ('CM0013', 'F00013');
```

```
INSERT INTO CheckingFeedback VALUES ('CM0014', 'F00014');
INSERT INTO CheckingFeedback VALUES ('CM0015', 'F00015');
INSERT INTO CheckingFeedback VALUES ('T0001', 'F00016');
INSERT INTO CheckingFeedback VALUES ('T0002', 'F00017');
INSERT INTO CheckingFeedback VALUES ('T0003', 'F00018');
INSERT INTO CheckingFeedback VALUES ('TM0004', 'F00019');
INSERT INTO CheckingFeedback VALUES ('TM0005', 'F00020');
```

--CheckingHistory--

```
INSERT INTO CheckingHistory VALUES ('CW0001', 'H0001');
INSERT INTO CheckingHistory VALUES ('CW0002', 'H0002');
INSERT INTO CheckingHistory VALUES ('CW0003', 'H0003');
INSERT INTO CheckingHistory VALUES ('CW0004', 'H0004');
INSERT INTO CheckingHistory VALUES ('CW0005', 'H0005');
INSERT INTO CheckingHistory VALUES ('CW0006', 'H0006');
INSERT INTO CheckingHistory VALUES ('CW0007', 'H0007');
INSERT INTO CheckingHistory VALUES ('CW0008', 'H0008');
INSERT INTO CheckingHistory VALUES ('CW0009', 'H0009');
INSERT INTO CheckingHistory VALUES ('CM0010', 'H0010');
INSERT INTO CheckingHistory VALUES ('CM0011', 'H0011');
INSERT INTO CheckingHistory VALUES ('CM0012', 'H0012');
INSERT INTO CheckingHistory VALUES ('CM0013', 'H0013');
INSERT INTO CheckingHistory VALUES ('CM0014', 'H0014');
INSERT INTO CheckingHistory VALUES ('CM0015', 'H0015');
INSERT INTO CheckingHistory VALUES ('T0001', 'H0016');
INSERT INTO CheckingHistory VALUES ('T0002', 'H0017');
INSERT INTO CheckingHistory VALUES ('T0003', 'H0018');
INSERT INTO CheckingHistory VALUES ('TM0004', 'H0019');
INSERT INTO CheckingHistory VALUES ('TM0005', 'H0020');
```

**--Randomly choose some tables to test insertion successful or not--**

--Retrieving Records with the USING Clause and ON Clause

SELECT

C.Customer\_ID,  
C.Customer\_name,  
C.Customer\_emailAddress,  
PN.Customer\_phoneNumber,  
PC.Payment\_ID,  
PC.Package\_ID,  
P.Payment\_type,  
P.Payment\_Status

FROM

Customer C

JOIN

Phone\_Number PN ON C.Customer\_ID = PN.Customer\_ID

JOIN

Package\_Customer PC ON C.Customer\_ID = PC.Customer\_ID

JOIN

Payment P ON PC.Payment\_ID = P.Payment\_ID;

	CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER_EMAILADDRESS	CUSTOMER_PHONENUMBER	PAYMENT_ID	PACKAGE_ID	PAYMENT_TYPE	PAYMENT_STATUS
1	C0001	John	john@gmail.com	011-1111111	PY0001	P0001	M	Y
2	C0001	John	john@gmail.com	011-11111112	PY0001	P0001	M	Y
3	C0002	David	david@gmail.com	011-1111112	PY0002	P0002	E	Y
4	C0003	Apollo	apollo@gmail.com	011-1111113	PY0003	P0003	M	N
5	C0003	Apollo	apollo@gmail.com	011-1111113	PY0004	P0003	E	Y
6	C0004	Micheal	micheal@gmail.com	011-1111114	PY0005	P0004	M	Y
7	C0005	Richard	richard@gmail.com	011-1111115	PY0006	P0001	E	Y
8	C0006	Nick	nick@gmail.com	011-1111116	PY0007	P0002	M	Y
9	C0007	Benedict	benedict@gmail.com	011-1111117	PY0008	P0003	E	Y
10	C0008	Ben	ben@gmail.com	011-1111118	PY0009	P0004	M	Y
11	C0009	Benjamin	benjamin@gmail.com	011-1111119	PY0010	P0001	E	Y
12	C0010	Zoe	zoe@gmail.com	011-1111110	PY0011	P0002	M	Y
13	C0011	Lily	lily@gmail.com	011-1111011	PY0012	P0003	M	Y
14	C0012	James	james@gmail.com	011-1111012	PY0013	P0004	E	Y
15	C0013	Tom	tom@gmail.com	011-1111013	PY0014	P0001	M	Y
16	C0014	Ali	ali@gmail.com	011-1111014	PY0015	P0002	F	Y
17	C0015	Michelle	michele@gmail.com	011-1111015	PY0016	P0003	F	Y
18	C0016	Bella	bella@gmail.com	011-1111016	PY0017	P0004	F	Y
19	C0017	Layla	layla@gmail.com	011-1111017	PY0018	P0001	F	Y
20	C0018	Charles	charles@gmail.com	011-1111018	PY0019	P0002	V	Y
21	C0019	Lisa	lisa@gmail.com	011-1111019	PY0020	P0003	V	Y
22	C0020	Jasmine	jasmine@gmail.com	011-1111020	PY0021	P0004	V	Y

```

SELECT D.Draft_ID, D.Draft_dateSubmitted, DC.Status_code,G.Status_descriptions,
D.Customer_ID, W.Worker_ID
FROM
    CV_Draft_Info D
JOIN
    Draft_Customer DC ON D.Draft_ID=DC.Draft_ID
JOIN
    CV_Generating_Status G ON DC.Status_code=G.Status_code
JOIN
    Sending S ON D.Draft_ID=S.Draft_ID
JOIN
    CV_ConsultantWorker W ON S.Worker_ID=W.Worker_ID;

```

DRAFT_ID	DRAFT_DATESUBMITTED	STATUS_CODE	STATUS_DESCRIPTIONS	CUSTOMER_ID	WORKER_ID
1 D0001	13/01/2024	S0001	Received	C0001	CW0001
2 D0002	13/01/2024	S0002	Processing	C0002	CW0002
3 D0003	13/01/2024	S0003	Sent	C0003	CW0003
4 D0004	13/01/2024	S0001	Received	C0004	CW0004
5 D0005	13/01/2024	S0002	Processing	C0005	CW0005
6 D0006	13/01/2024	S0003	Sent	C0006	CW0006
7 D0007	13/01/2024	S0001	Received	C0007	CW0007
8 D0008	13/01/2024	S0002	Processing	C0008	CW0008
9 D0009	13/01/2024	S0003	Sent	C0009	CW0009
10 D0010	13/01/2024	S0001	Received	C0010	CM0010
11 D0011	13/01/2024	S0002	Processing	C0011	CM0011
12 D0012	13/01/2024	S0003	Sent	C0012	CM0012
13 D0013	13/01/2024	S0001	Received	C0013	CM0013
14 D0014	13/01/2024	S0002	Processing	C0014	CM0014
15 D0015	13/01/2024	S0003	Sent	C0015	CM0015
16 D0016	13/01/2024	S0001	Received	C0016	CW0001
17 D0017	13/01/2024	S0002	Processing	C0017	CW0002
18 D0018	13/01/2024	S0003	Sent	C0018	CW0003
19 D0019	13/01/2024	S0001	Received	C0019	CW0004
20 D0020	13/01/2024	S0002	Processing	C0020	CW0005

```

SELECT CP.Company_ID, CP.Company_Name, C.CV_ID, C.CV_dateGenerated
FROM
    Company CP
JOIN
    Obtaining O ON CP.Company_ID=O.Company_ID
JOIN
    CV C ON C.CV_ID=O.CV_ID;

```

	COMPANY_ID	COMPANY_NAME	CV_ID	CV_DATEGENERATED
1	CP0001	ABC Corp	CV0001	13/01/2024
2	CP0002	XYZ Ltd	CV0002	13/01/2024
3	CP0003	Tech Solutions	CV0003	13/01/2024
4	CP0004	Innovate Inc	CV0004	13/01/2024
5	CP0005	Global Services	CV0005	13/01/2024
6	CP0006	Smart Ventures	CV0006	13/01/2024
7	CP0007	Elite Innovations	CV0007	13/01/2024
8	CP0008	Bright Ideas Co	CV0008	13/01/2024
9	CP0009	Prime Tech	CV0009	13/01/2024
10	CP0010	Pro Solutions	CV0010	13/01/2024
11	CP0011	TechGenius	CV0011	13/01/2024
12	CP0012	Infinite Innovations	CV0012	13/01/2024
13	CP0013	Future Tech	CV0013	13/01/2024
14	CP0014	Global Innovators	CV0014	13/01/2024
15	CP0015	Inventive Solutions	CV0015	13/01/2024
16	CP0016	Dynamic Technologies	CV0016	13/01/2024
17	CP0017	InnoSys	CV0017	13/01/2024
18	CP0018	Strategic Solutions	CV0018	13/01/2024
19	CP0019	TechMasters	CV0019	13/01/2024
20	CP0020	NexGen Innovations	CV0020	13/01/2024

```

SELECT W.Worker_ID, W.Worker_Name, F.Feedback_ID, F.Feedback_descriptions,
F.Customer_ID
FROM
    Worker W
JOIN
    CheckingFeedback CF ON W.Worker_ID=CF.Worker_ID
JOIN
    Feedback F ON CF.Feedback_ID=F.Feedback_ID;

```

WORKER_ID	WORKER_NAME	FEEDBACK_ID	FEEDBACK_DESCRIPTIONS	CUSTOMER_ID
1 CW0001	John Doe	F00001	Service was excellent, very user-friendly platform!	C0001
2 CW0002	Jane Smith	F00002	The team provided great assistance. Service is highly recommended!	C0002
3 CW0003	Michael Johnson	F00003	Very satisfied with the support. User interface is intuitive.	C0003
4 CW0004	Emily Brown	F00004	Exceptional service! The platform is user-friendly and efficient.	C0004
5 CW0005	Daniel Wilson	F00005	The assistance received exceeded expectations. User-friendly interface.	C0005
6 CW0006	Olivia Davis	F00006	Great service, very easy to navigate. Kudos to the team!	C0006
7 CW0007	William Martinez	F00007	Highly impressed with the user-friendly platform and excellent support.	C0007
8 CW0008	Sophia Miller	F00008	Service was excellent. The platform is intuitive and efficient.	C0008
9 CW0009	Benjamin Anderson	F00009	Very user-friendly and the support team is responsive and helpful.	C0009
10 CM0010	Ava Taylor	F00010	Excellent service, user-friendly interface. Highly recommended!	C0010
11 CM0011	James White	F00011	The team is responsive and the platform is easy to use. Great service!	C0011
12 CM0012	Emma Harris	F00012	Satisfied with the service. The platform is user-friendly and efficient.	C0012
13 CM0013	Alexander Thomas	F00013	Great support and user-friendly platform. Very pleased with the service.	C0013
14 CM0014	Mia Garcia	F00014	Service was excellent. The platform is user-friendly and efficient.	C0014
15 CM0015	Ethan Lopez	F00015	The team provided exceptional service. User-friendly interface.	C0015
16 T0001	Isabella Moore	F00016	Very satisfied with the service. User-friendly platform and great support.	C0016
17 T0002	Jackson Taylor	F00017	Excellent support and user-friendly platform. Highly recommended!	C0017
18 T0003	Sophie Clark	F00018	The team is responsive, and the platform is very user-friendly.	C0018
19 TM0004	Logan Wright	F00019	Service exceeded expectations. User-friendly and efficient platform.	C0019
20 TM0005	Grace Hall	F00020	Highly satisfied with the support received. The platform is user-friendly.	C0020

## 7 User Interface

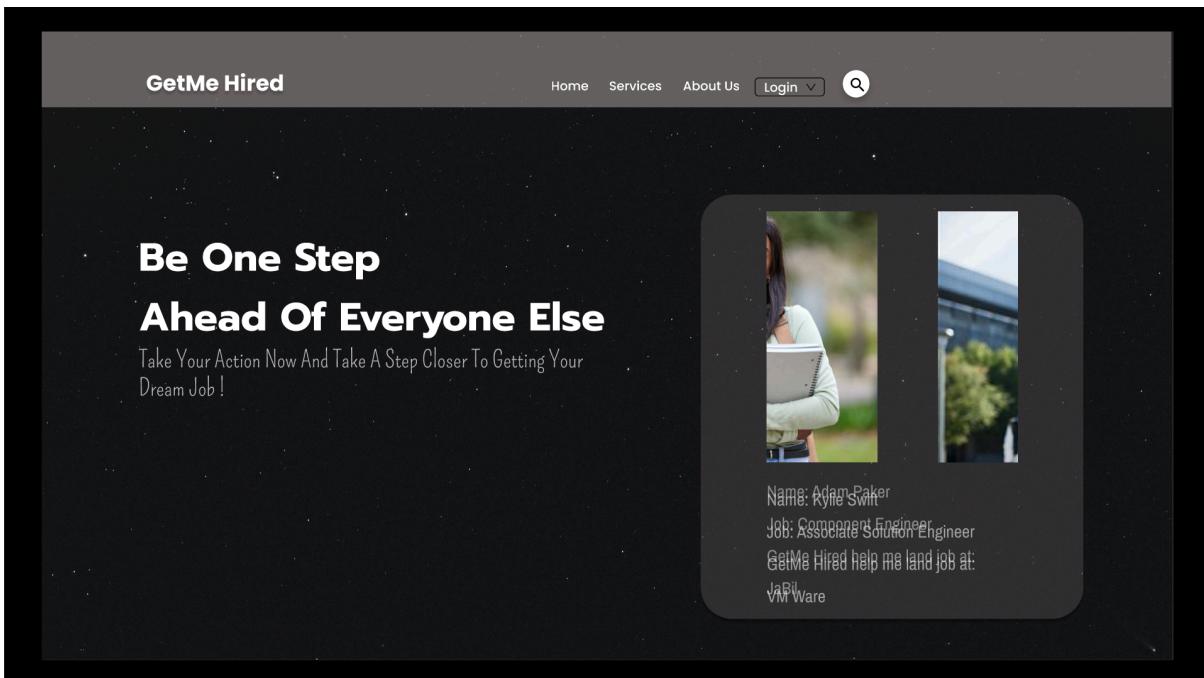
### 7.1 Customer view

#### 7.1.1 Home Page

Step 1: Click the search icon

Step 2: Type in what you want to search

Step 3: Click on the result and it will direct you to that page.



## 7.1.2 About Us page

Step 1: Click on the About Us button on the navigation bar.

Step 2: Scroll down to the Provide Feedback area, customers can type in their feedback.

Step 3: Click the save button to save their feedback.

The screenshot shows the 'About Us' page of the GetMe Hired website. At the top, there's a navigation bar with links for Home, Services, About Us, Login, and a search icon. Below the navigation is a cartoon illustration of an astronaut standing on the moon, holding a flag that says 'DUDE'. The main heading is 'Why GetMe Hired?'. Below this, there are four numbered points in boxes:

- 1 Our "Secret CV Structure" Has A Proven Formula/Format That Has Already Helped More Than Our 30 Clients Landed A Job At Top MNC And GLC Companies
- 2 Our CV Writer From TESL Background Have Been Proofreading And Developing More Than 800 CVs Before.
- 3 Our Library On Member Area Will Keep Updated Tips & Tricks From Time To Time
- 4 Our Latest Vacancies On Discord Will Be Updated Faster Than Twitter And Easier To Find Based On Field

Below this section is a horizontal line. Underneath the line, there's a heading 'Provide Feedback' followed by a text input field with a placeholder 'Say something...'. To the right of the input field is a small 'x' icon. Below the input field is a 'Save' button. At the bottom left is a purple cartoon character, and at the bottom center is the heading 'Feedback Given' with the subtext 'I already secure my dream job at GetMe Hired'.



## Feedback Given

Hello just to let you know I have landed a job as a junior executive somewhere in Kerteh. Thanks a lot for the tip and the coaching. You guys are the best, really. 11/10 would recommend!

Atikah

---

### Contact Us:



GetMe Hired



+60197278389



getmehired\_io

### 7.1.3 Services Page

Step 1: Click the Services Button on the navigation bar.

The screenshot shows the 'Services' page of the 'GetMe Hired' website. At the top, there's a navigation bar with links for Home, Services, About Us, Login, and a search icon. Below the navigation, a banner reads 'Every accomplishment starts with a decision to try'. The page features four service offerings arranged in a row:

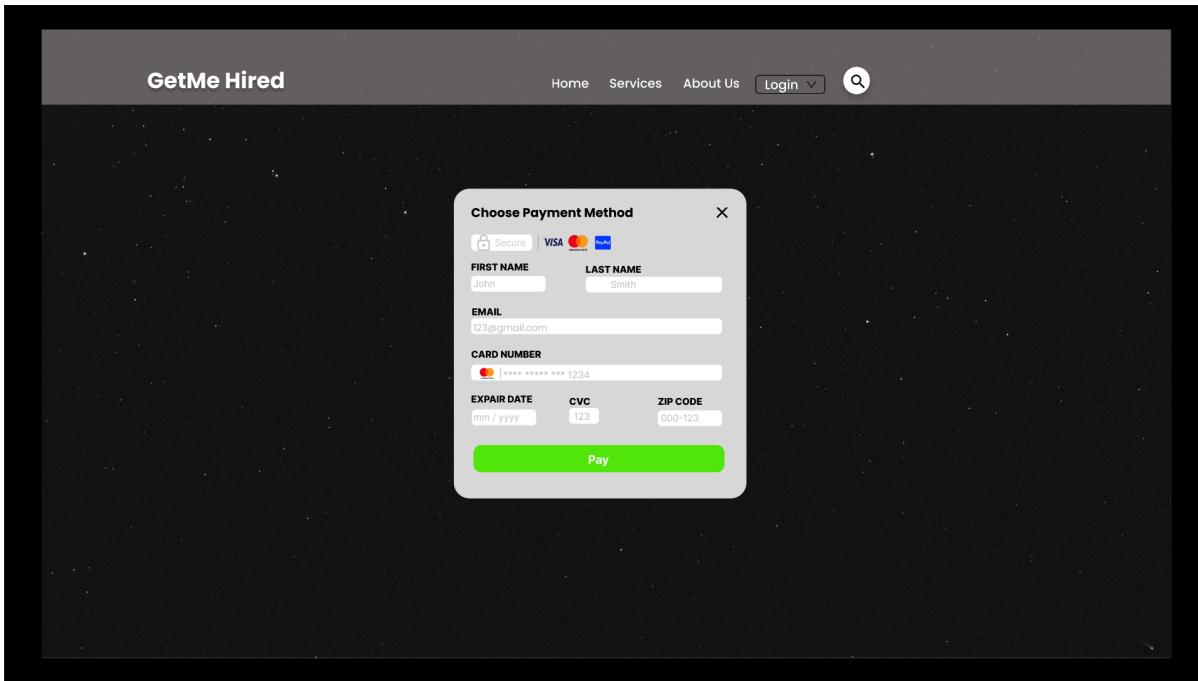
- CV Templates** (RM99)  
2 ATS CV Templates with example  
3 Direct Email CV Templates-PPT  
3 Direct Email CV Templates-Canva  
[BUY NOW](#)
- CV Writing Basics** (RM159)  
1 Full Writing Top-Notch ATS CV  
Powerful action verbs on CV  
Duration 5-10 Days  
[BUY NOW](#)
- CV Writing Pro** (RM199)  
1 Full Writing Top-Notch ATS CV  
Full Access Library  
Duration 1-4 Days  
[BUY NOW](#)
- Webinar** (RM250)  
Cover 4 Modules  
Certificate of Completion  
Full Access Member Area  
[BUY NOW](#)

#### 7.1.4 Payment Page

Step 1: Once the user clicks on the BUY NOW button in the services page, it will navigate to the payment page.

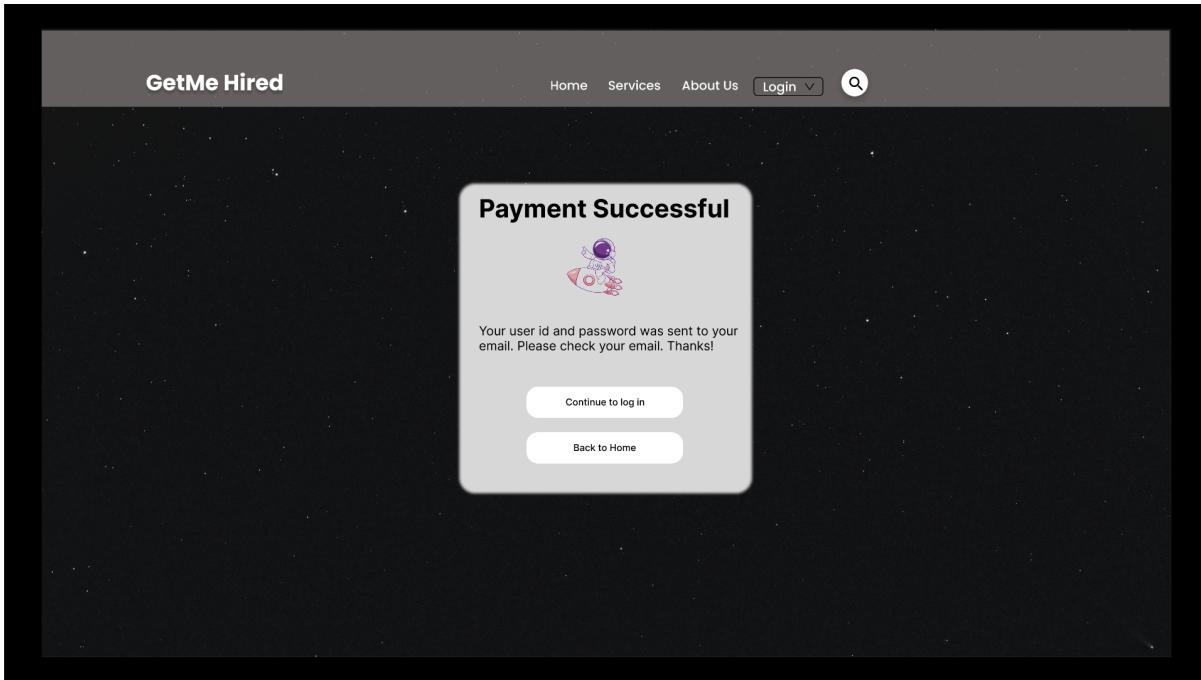
Step 2: User needs to choose a payment method and fill in the information.

Step 3: Click the Pay button.



### 7.1.5 Payment Status Page

- Step 1: Once users pay for the package, it will navigate to the payment status page.  
Step 2: Customers can either choose to continue to log in or back to the home page.



### 7.1.6 Customer Login Page

Step 1: Customers can choose to click continue to login or click the Login button on the navigation bar.

Step 2: If customers click the Login button on the navigation bar, it will drop down 2 options which are customer and company.

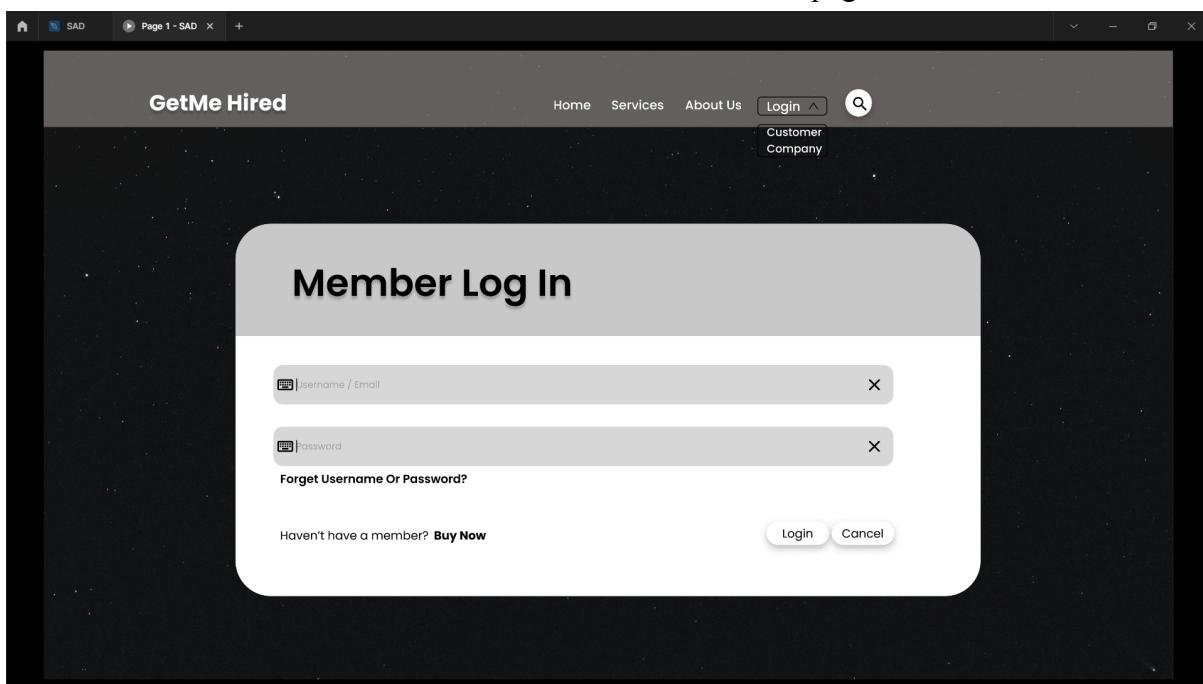
Step 3: Customers should click on the customer option and it will navigate to the customer login page.

Step 4: Fill in the information based on the requirement in the input field.

Step 5: After filling in the information, customers may click the login button to access the membership area.

Step 6: Customers can also click the cancel button and return to the home page.

Step 7: If the customer wants to buy a package, he/she can click the Buy Now which is the bold word on the left bottom corner and it will direct to the services page.



## 7.1.7 Customer Membership Page

Step 1: Customers can choose the templates based on their needs.

Step 2: There is a filter function implemented on this page to help customers easier to reach the template sample that they want.

Step 3: If customers want to communicate with the consultant or check whether their CV is correct or not, they can click on the bold sentence on the left bottom which is **Click here to chat**.

The screenshot shows the 'Templates' section of the GetMe Hired website. On the left, there's a sidebar with 'Welcome, TT' and a 'CV Types' dropdown menu containing 'Simple', 'Business', and 'Pro'. Below it is a 'Back to Home' button and a 'Help?' link with a 'Click here to chat' button. The main area displays four CV examples, each with a 'Creator' badge:

- CV Example 1:** Isabel Mercado, Simple CV Template. Includes sections for About Me, Education, Contact, Work Experience, Skills, and References.
- CV Example 2:** Richard Sanchez, Product Designer. Includes sections for About Me, Education, Contact, Work Experience, Education, Experience, Language, and Reference.
- CV Example 3:** Mariana Anderson, Marketing Manager. Includes sections for Contact, Experience, Education, Experience, Language, and Reference.
- CV Example 4:** Korina Villanueva, Graphic Designer. Includes sections for Contact, Experience, Education, Skills, and Reference.

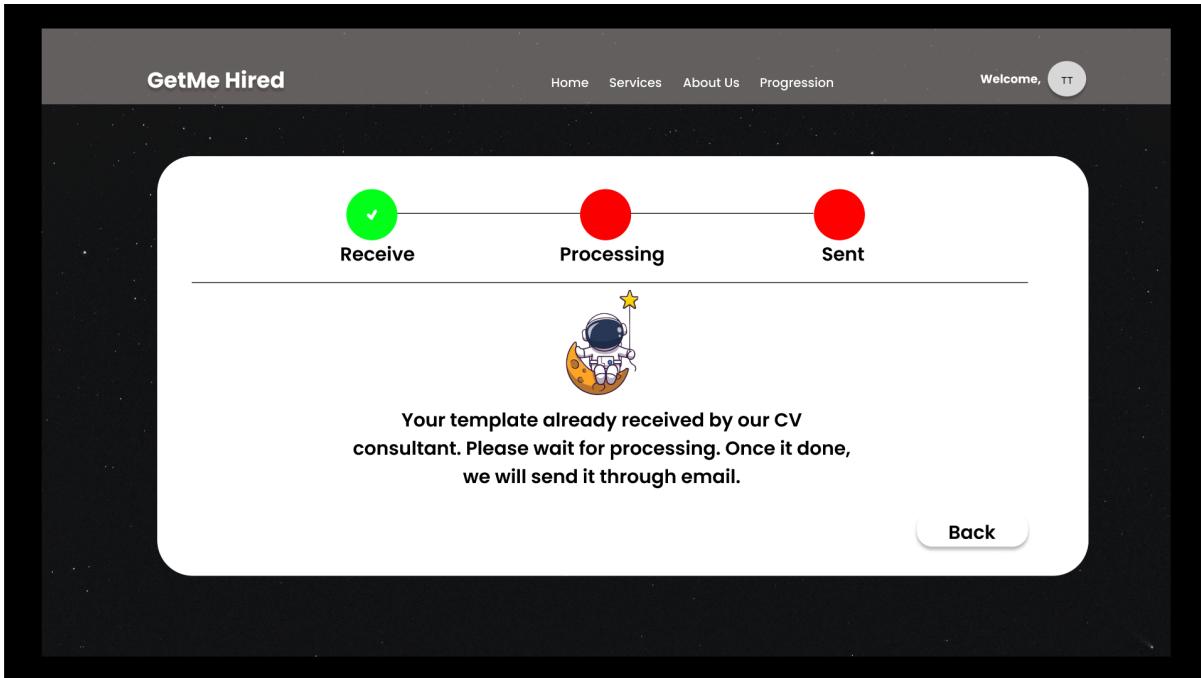
At the top right, there are 'Home', 'Services', 'About Us', 'Progression', 'Welcome, TT', and a profile icon.

### 7.1.8 Check CV Progression Page

Step 1: Click the Progression button.

Step 2: Customers can check on their Cv progression status.

Step 3: Customers can click the back button and go back to the previous page.

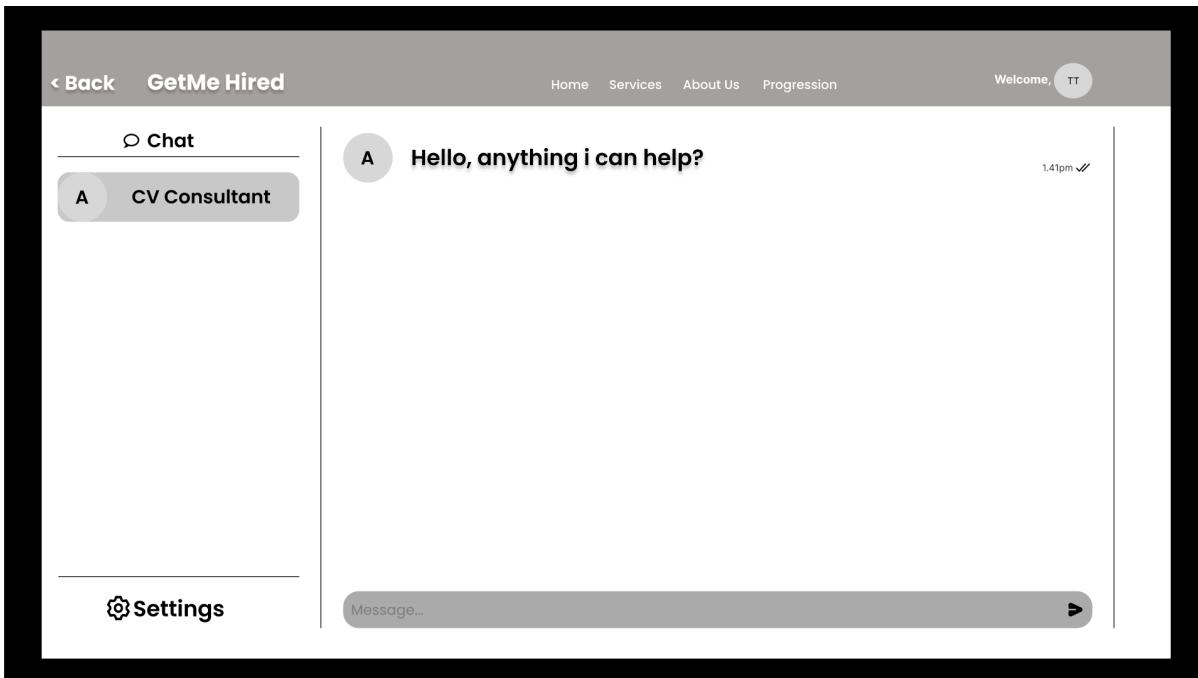


### 7.1.9 Chat Page

Step 1: Click the input field and type message.

Step 2: Click the send icon to send the message.

Step 3: Customers can click the Back button to go back to the previous page.



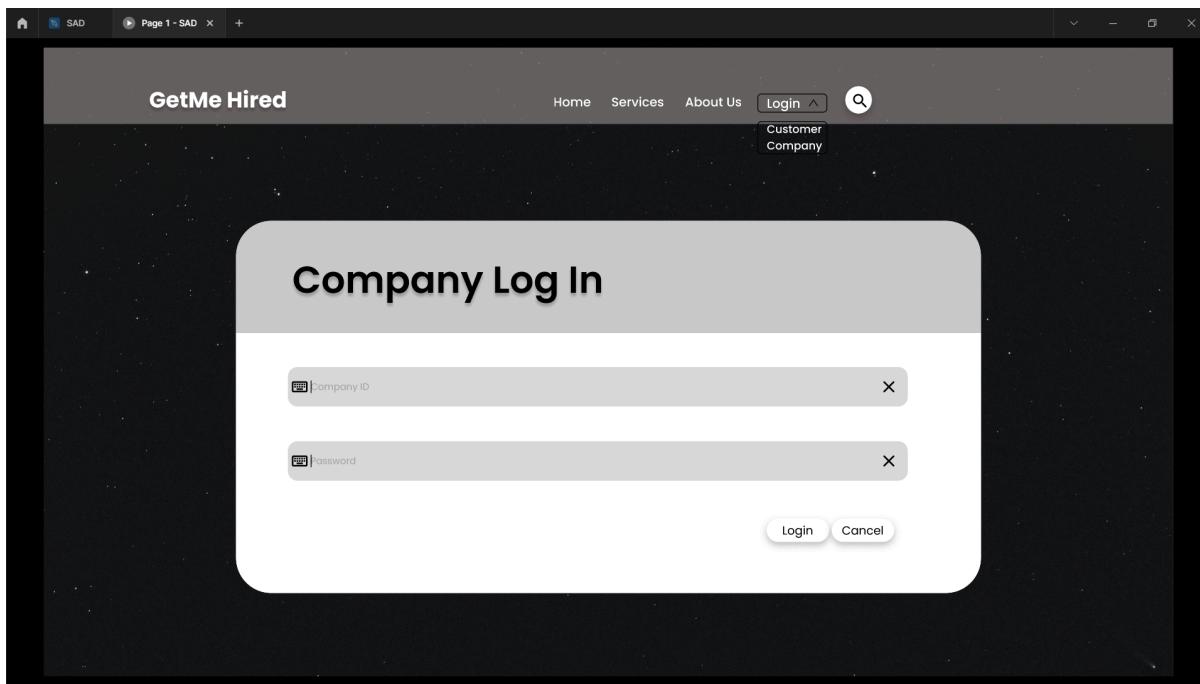
### 9.1.10 Company Login Page

Step 1: Click the drop down company option.

Step 2: Fill in the information in the input field.

Step 3: Click the login button to access the company membership page.

Step 4: Click the cancel button to return to the home page.



## 7.1.10 Company Membership Page

Step 1: Companies can choose the talent that they want by clicking the filter function and searching for the related job applicants.

Step 2: Click on the CV and it will pop up a window.

Step 3: Company can send an invitation or cancel by clicking the button.

Step 4: Company can download the full pdf by clicking the image.

**Chiaki Sato**  
Dentist

**Korina Villanueva**  
Professional accountant

**PAUL AWILSON**  
FASHION & BEAUTY

**Isabel Schumacher**  
De graphic designer

**Chiaki Sato**  
Dentist

**Korina Villanueva**  
Professional accountant

**PAUL AWILSON**  
FASHION & BEAUTY

**Isabel Schumacher**  
De graphic designer

### 7.1.11 Check Sent Invitation Page

- Step 1: Click the invitation button on the navigation bar.  
Step 2: Click the Back button to return to the previous page.  
Step 3: Click the Download pdf button to get the whole list.

The screenshot shows a software application window titled "GetMe Hired". At the top, there is a navigation bar with links for Home, Services, About Us, and Invitation. A "Welcome, gmh" message is displayed on the right. The main content area displays a table with the following data:

No.	Name	Phone	Email	CV	Status
1	Chiaki Sato	123-456-7890	hello@reallygreatsite.com	A thumbnail image of a CV document for Chiaki Sato, showing a profile picture and some text sections like Contact and Experience.	Invitation Sent

At the bottom left is a "Download pdf" button, and at the bottom right is a "Back" button.

## **8 Summary**

In conclusion, our team has done the database logical design and the SQL implementation of the “GetMe Hired”. In this phase of the project, we have transformed the conceptual entity relationship diagram (ERD) that has been conducted during the phase 2 of the project into logical ERD by determining the functional dependencies between the relationships based on the updated business rules. The database relation schemas have been generated based on the logical ERD produced followed by the normalization from the first normal form (1NF) to Boyce-Codd normal form (BCNF) in order to reduce the redundancy of the data and making “GetMe Hired” to be more easier to be accessed and manipulated efficiently and effectively without compromising the data integrity.

Apart from that, the data dictionary is updated based on the normalized relations as there are changes in the logical ERD. This process is important and necessary as the data dictionary provides the detailed information regarding all the attributes, entities and relationships. Following this, the tables will be created by SQL statements through the Oracle Apex.

In a nutshell, our team believes that a more functional and user-friendly system can be produced to improve the current system of “GetMe Hired”.