VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI-**590018**

"DBMS Mini Project"
(Subject Code: 17CSL58/15CSL58)
ON
"ANIMAL ADOPTION"

Submitted in partial fulfilment for 5th semester for the Award of Degree of

BACHELOR OF ENGINEERING
IN
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BY

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Chapter 1

INTRODUCTION

1.1 Purpose

• The Software is for the automation of Animal Adoption

• It maintains two levels of users: -

> Administrator Level

> User Level Animal Adoption

• The Software includes: -

> Listing all the breeds

> Providing Information about Animal Adoption like Animal, customer, sale, employee, order

> Providing and maintaining the registration information.

> view the Animal Adoption information.

1.2 Scope

The proposed system overcomes the problems in the existing system. This project also overcome the problem in adoption of the animal. Customer details can be retrieved easily based on the order status of the particular animal based on the requirements of the user. Customers can find different breeds in the same place. This system is helpful for the customer to retrieve and to order a particular animal.

1.3 Technologies to be used

This project will be a desktop application to be developed in NetBeans IDE 8.2 having MySQL as backend.

- Database Design (MySQL)
- Form Design (NetBeans IDE 8.2)
- Coding (NetBeans IDE 8.2)
- Testing (NetBeans IDE 8.2)
- Reporting Tool (Data Report)

1.4 Overview

- Project is related to Animal Adoption System.
- The project maintains two levels of users:-
  - Administrator Level-Admin
  - User Level-User
- Main facilities available in this project are: -

• Maintaining records of Animal Adoption

• Maintaining Animal, customer, sale, employee, order item details.

• Maintaining Animal_id, Name, Breed, Date_birth

• Maintaining customer details like Customer_id, Name, Phone, Address, Order_no.

• Maintaining the sale details like sale_nosale_date,
Employee_id, Customer_id, Animal_id, price.

• Maintaining employee details like employee_id, Name, phone, Address.

• If user has to login by using username and password.

Chapter 2

➢ REQUIREMENTS

➢ 2.1 Hardware Requirements:

- We need one machine with following minimal requirements.
- CPU : Intel 2.20 GHZ
- Memory : 4 GB
- Manufacturer : Dell

➢ 2.2 Software (Tools & Technologies) Requirements:

- Coding : Java
- Operating System : Windows 7
- Tool : NetBeans IDE 8.2
- Database : MySQL

Chapter 3

TOOL DESCRIPTION

NetBeans is a software development platform written in Java. The NetBeans Platform allows applications to be developed from a set of modular software components called *modules*. Application based on NetBeans integrated development environment (IDE), can be extended by third party developers. The NetBeans IDE is primarily intended for development in Java, but also supports other languages, in particular PHP, C/C++ and HTML. Many Versions of NetBeans IDE are released with advanced features every time. The NetBeans platform is a *framework* of simplifying the development of Java Swing desktop applications

NetBeans is cross-platform and runs on Microsoft Windows, macOS, Linux, Solaris and other platforms supporting a compatible JVM. The editor supports many languages form Java, C/C++, XML and HTML, to PHP, Groovy, Javadoc, JavaScript and JSP, Because the editor is extensible, you can plug in support for many other languages.

The NetBeans Team actively supports the product and seeks feature suggestions from the wider community. Every release is preceded by a time for Community Testing and feedback. Over 18 million downloads of the NetBeans IDE to date, and over 800,000 participating developers, the NetBeans project is thriving and continues to grow.

A new Version was released 8.2/October 3,2016. NetBeans IDE is the official IDE for Java 8, With its editors, code analyzers, and converters, you can quickly and smoothly upgrade your applications to use new Java 8 language constructs, such as lambdas, functional operations, and method references.

3.1 Overview of Front End

An important issue for the development of a project is the selection of suitable front-end and back-end. When we decided to develop the project, we went through an extensive study to determine the most suitable platform that suits the needs of the organization as well as helps in development of the project.

The aspects of our study included the following factors.

Front-end selection:

1. It must have a graphical user interface that assists employees that are not from IT background.

2. Scalability and extensibility.

3. Flexibility.

4. Robustness.

5. According to the organization requirement and the culture.

6. Must provide excellent reporting features with good printing support.

7. Platform independent.

8. Easy to debug and maintain.

9. Event driven programming facility.

10. Front end must support some popular back end like MySQL.

According to the above stated features we selected NetBeans IDE 8.2 as the front-end for developing our project.

3.2 Overview of Back End

Back End Selection:

1. Multiple user support.

2. Efficient data handling.

3. Provide inherent features for security.

4. Efficient data retrieval and maintenance.

5. Stored procedures.

6. Popularity.

7. Operating System compatible.

8. Easy to install.

9. Various drivers must be available.

10. Easy to implant with the Front-end.

According to above stated features we selected MySQL as the backend.

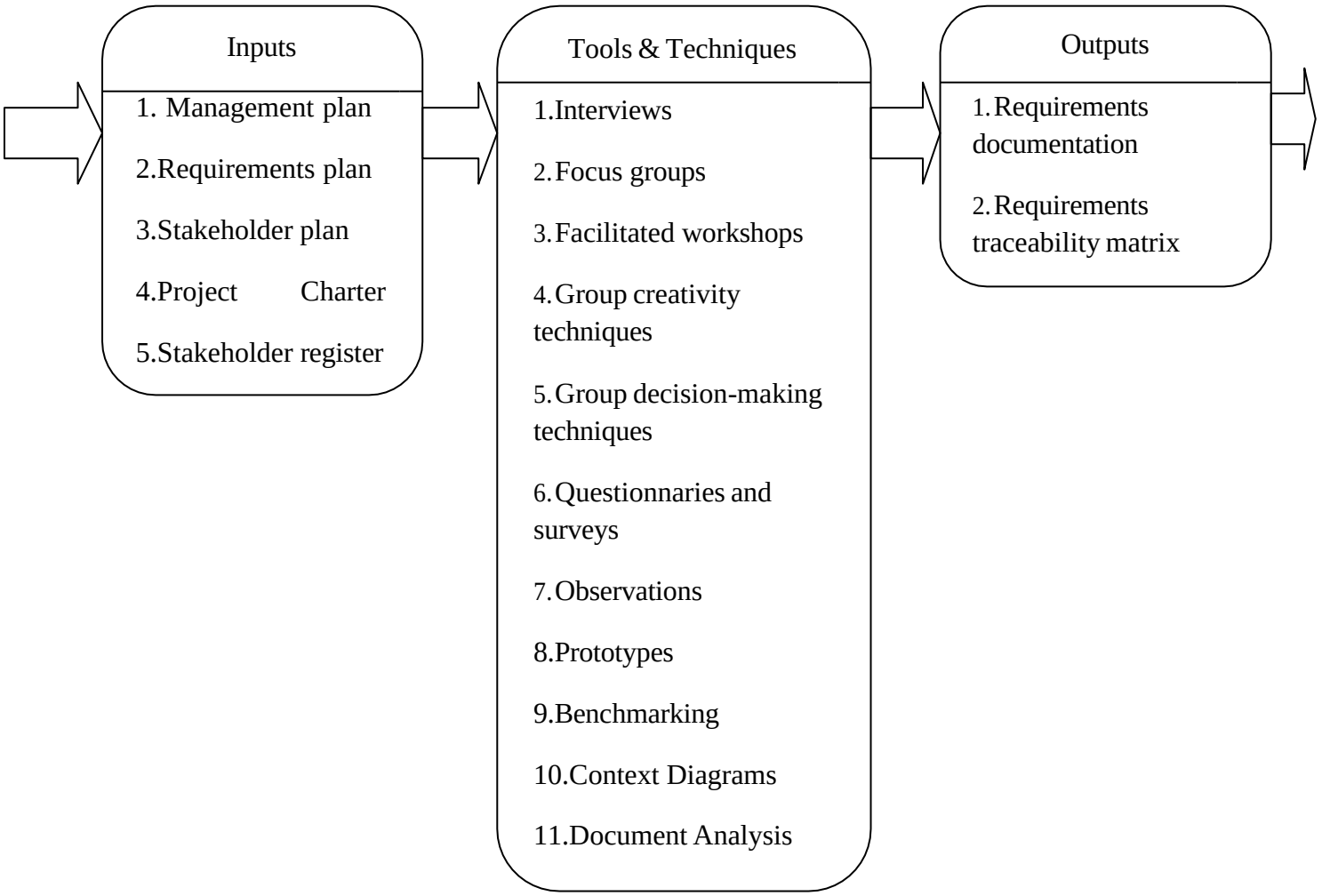
The technical feasibility is frequently the most difficult area encountered at this stage. It is essential that the process of analysis and definition be conducted in parallel with an assessment to technical feasibility. It centers on the existing computer system (hardware, software etc.) and to what extent it can support the proposed system.

Chapter 4

REQUIREMENTS COLLECTION/ANALYSIS

Collect Requirements

Collect Requirements is the process of determining, documenting, and managing stakeholder needs and requirements to meet project objectives. The key benefit of this process is that it provides the basis for defining and managing the project scope including product scope. The inputs, tools and techniques, and outputs of this process are depicted below in the diagram.



4.1 ER Diagram

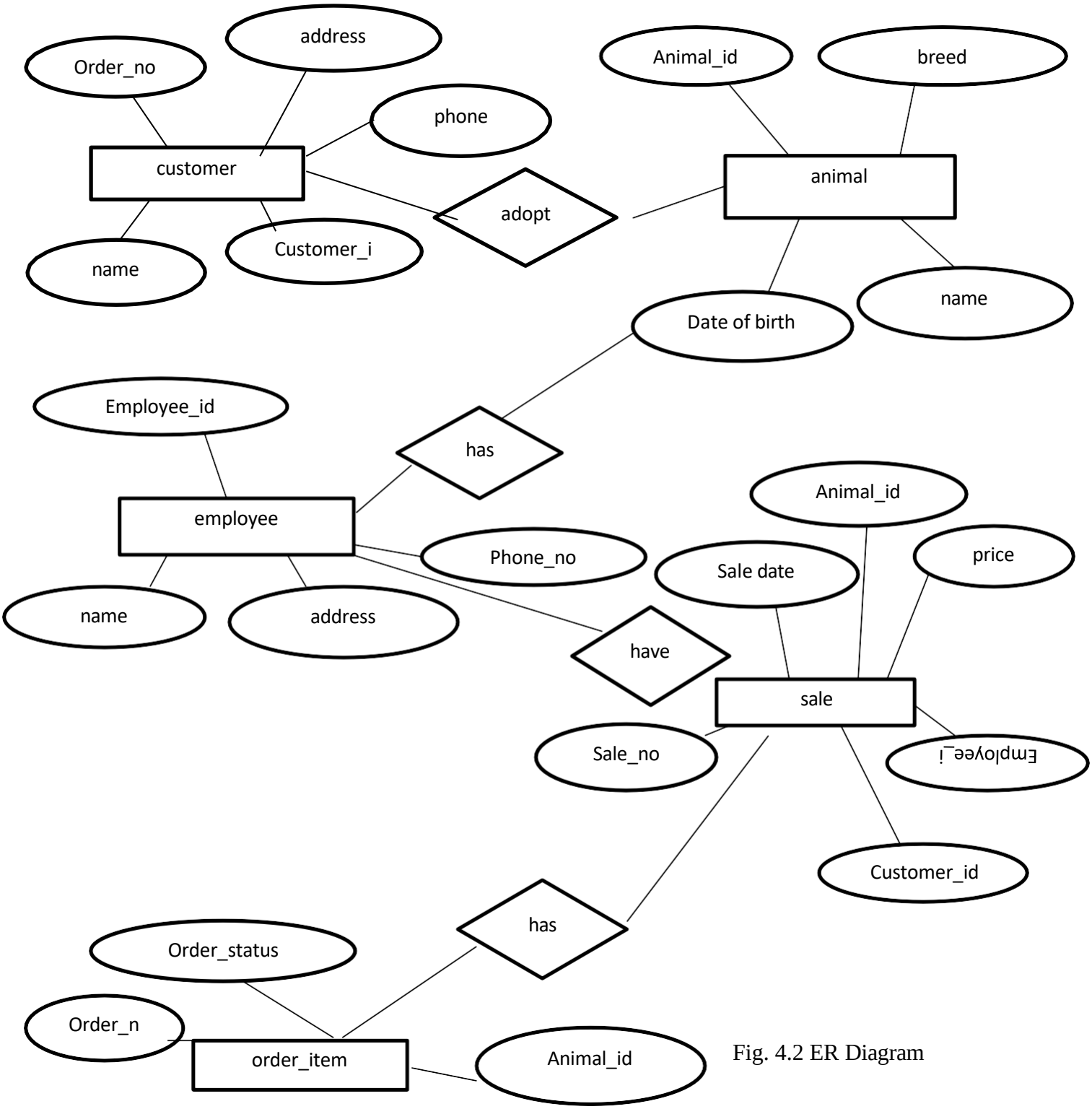


Fig. 4.2 ER Diagram

4.2 Schema Diagram

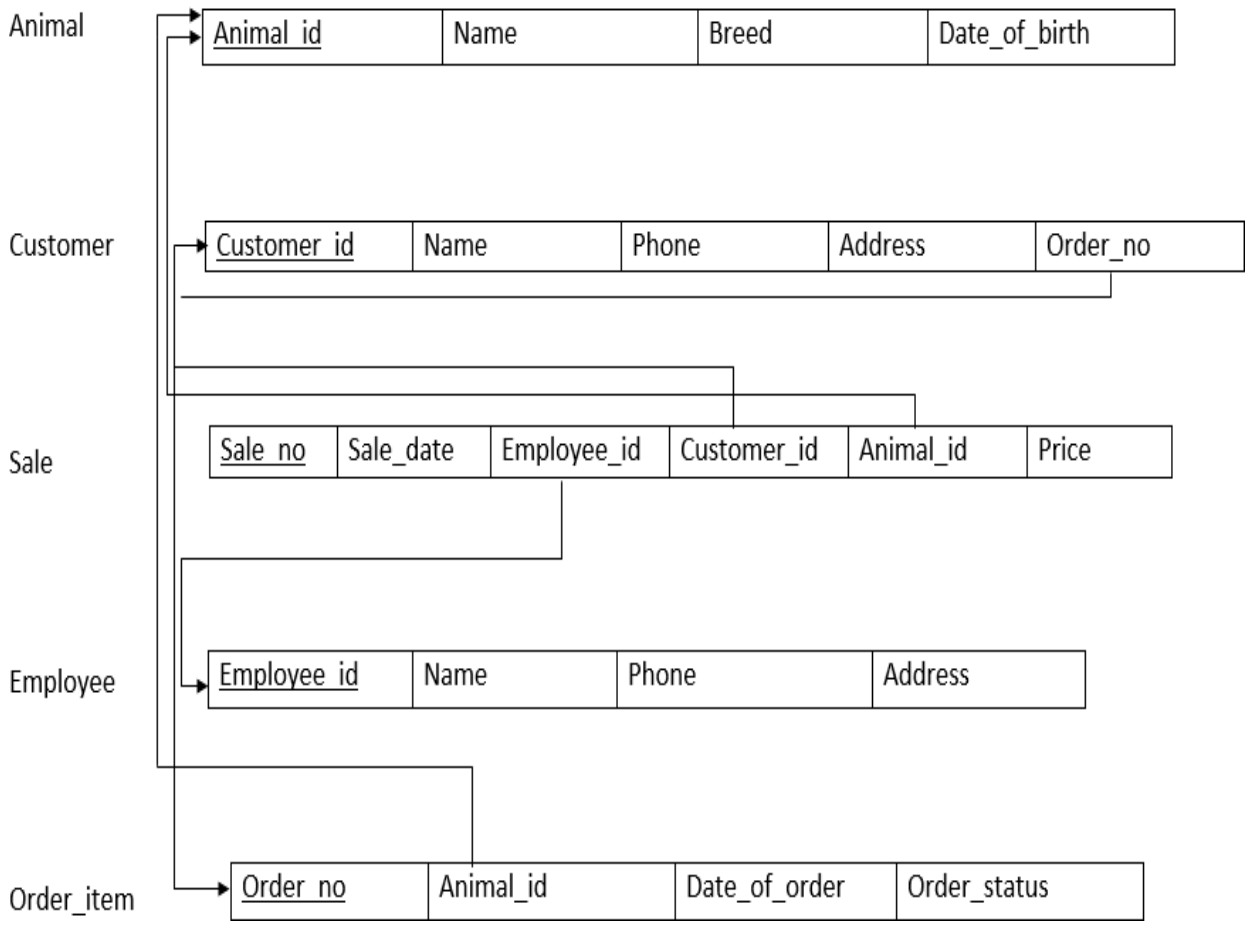


FIG 4.2: SCHEMA DIAGRAM

Chapter 5

TABLE DESCRIPTION WITH VALUES

Animal Table: -

Table 5.1 Animal table

Name	Null?	Type
ANIMAL ID	NOT NULL	VARCHAR(30)
NAME		VARCHAR(30)
BREED		VARCHAR(30)
DATE_OF_BIRTH		DATE

Values: - Table 5.2 Animal table with values

Animal_id	Name	Breed	Date_of_birth
Adp01	Dog	German_sheperd	2015-02-12
Adp02	Cat	Russian_blue	2016-03-15
Adp03	Bird	Rio	2017-05-18
Adp04	Dog	Golden_retriever	2017-04-03
Adp05	Dog	Beagel	2017-05-16
Adp06	Cat	Siamess_cat	2017-07-20
Adp07	Cat	Turkish_angora	2017-09-22

Customer Table: -

Table 5.3 Customer table

Name	Null?	Type
CUSTOMER_ID	NOT NULL	VARCHAR(20)
NAME		VARCHAR(25)
PHONE_NO		INTEGER
ADDRESS		VARCHAR(20)
ORDER_NO		INTEGER

Values: -

Table 5.4 Customer table with values

Customer_id	Phone_no	Name	Address	Order_no
Cus01	987773	Anusha	Majestic	1
Cus02	987789	Chandan	Magdi_road	2
Cus03	876656	Loki	Kengeri	3
Cus04	987722	Vaishu	Hebbal	4
Cus05	872266	Abhi	Kalyan nagar	5
Cus06	982277	Nevetha	Bangalore	5

Sales Table: -

Table 5.5 Sale table

Name	Null?	Type
SALE_NO	NOT NULL	NUMBER
SALE_DATE		DATE
EMPLOYEE_ID		VARCHAR(20)
CUSTOMER_ID		VARCHAR(20)
ANIMAL_ID		VARCHAR(20)
PRICE		INTEGER

Values: -

Table 5.6 Sale table with values

Sale_no	Sale_date	Price	Employee_id	Customer_id	Animal_id
Sal01	2012-02-10	40000	Emp01	Cus01	Adp01
Sal02	2013-05-11	30000	Emp02	Cus02	Adp02
Sal03	2016-05-15	35000	Emp03	Cus03	Adp03
Sal04	2017-05-12	30000	Emp04	Cus04	Adp04
Sal05	2017-06-12	29000	Emp05	Cus05	Adp05

Employee Table: -

Table 5.7 Employee table

Name	Null?	Type
EMPLOYEE ID	NOT NULL	VARCHAR(20)
NAME		VARCHAR(20)
PHONE_NO		INTEGER
ADDRESS		VARCHAR(30)

Values: -

Table 5.8 Employee table with values

Employee_id	Name	Phone_no	Address
Emp01	Aradhana	987677	Marathalli
Emp02	Adhya	902288	Hope farm
Emp03	Ayushee	879922	Herohalli
Emp04	Chandan	805433	Kalyan nagar
Emp05	Akash	913456	Marathalli

Order_item Table: -

Table 5.9 Order_item table

Name	Null?	Type
ORDER_NO	NOT NULL	INTEGER
ANIMAL ID		VARCHAR(20)
ORDER_STATUS		VARCHAR(20)
ORDER_DATE		DATE

Values: -

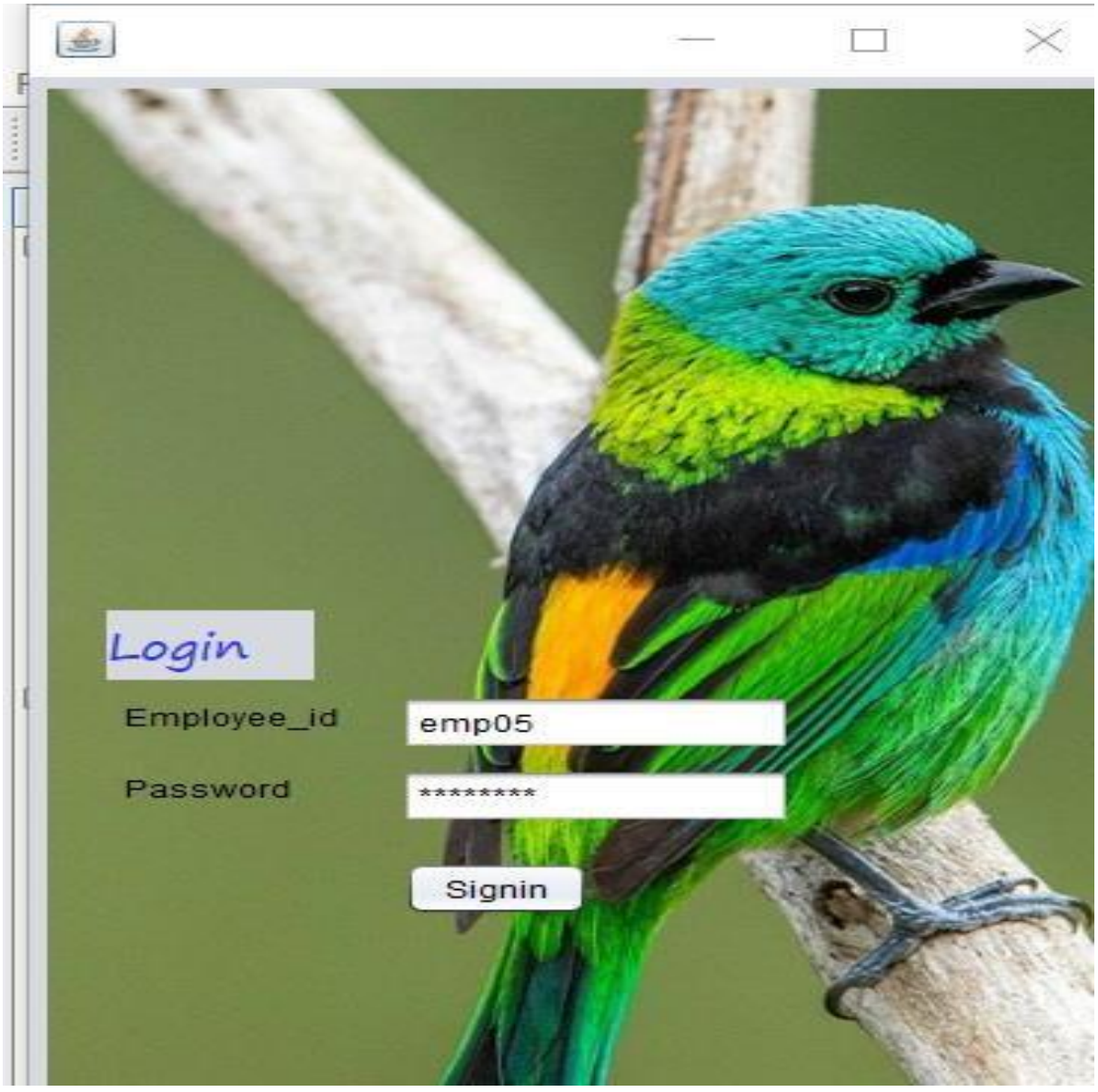
Table 5.10 Order_item table with values

Order_no	Animal_id	Date_of_order	Order_status
1	Adp01	18-06-11	approved
2	Adp02	18-07-12	booked
3	Adp03	18-09-03	Pending_approval
4	Adp04	18-05-15	booked
5	Adp05	18-11-25	delivered

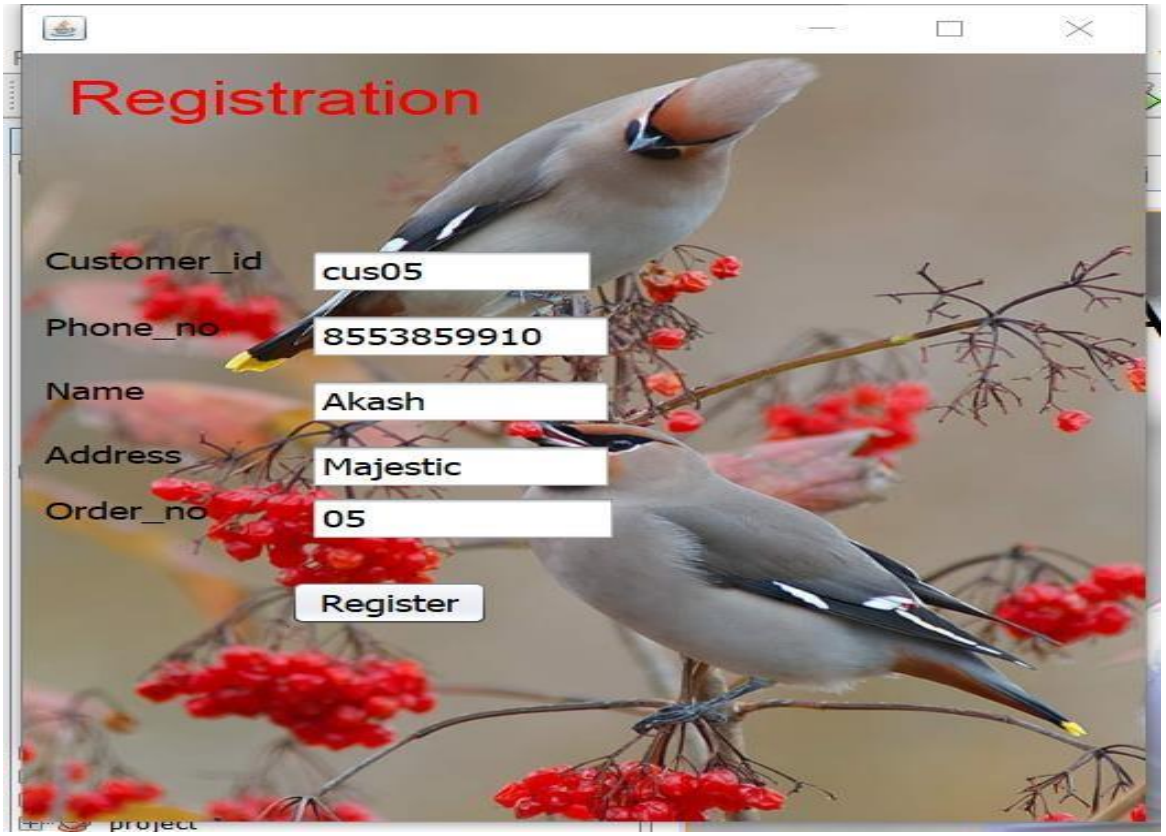
Chapter 6

SNAPSHOTS

6.1 : Home Page

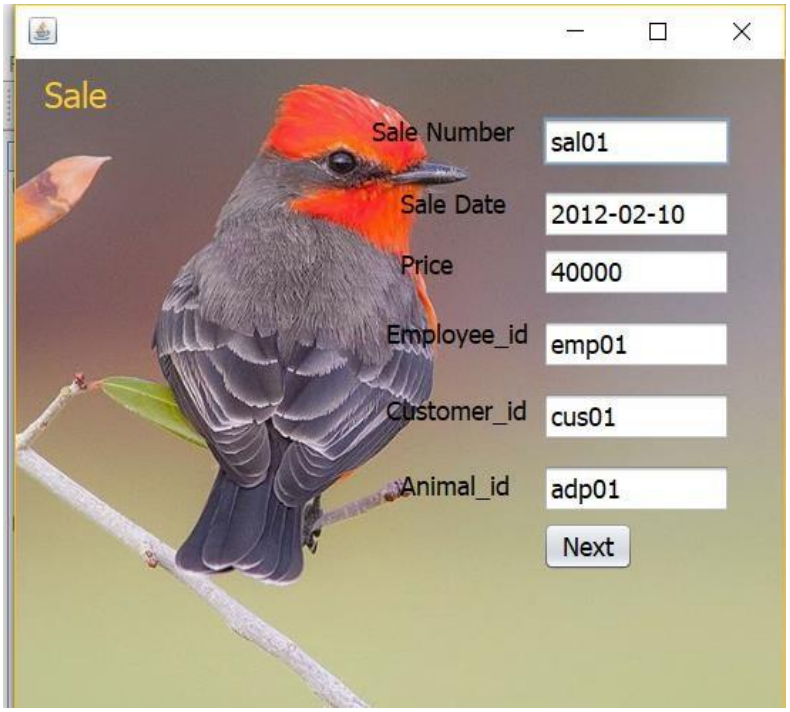


6.2 : Login Page

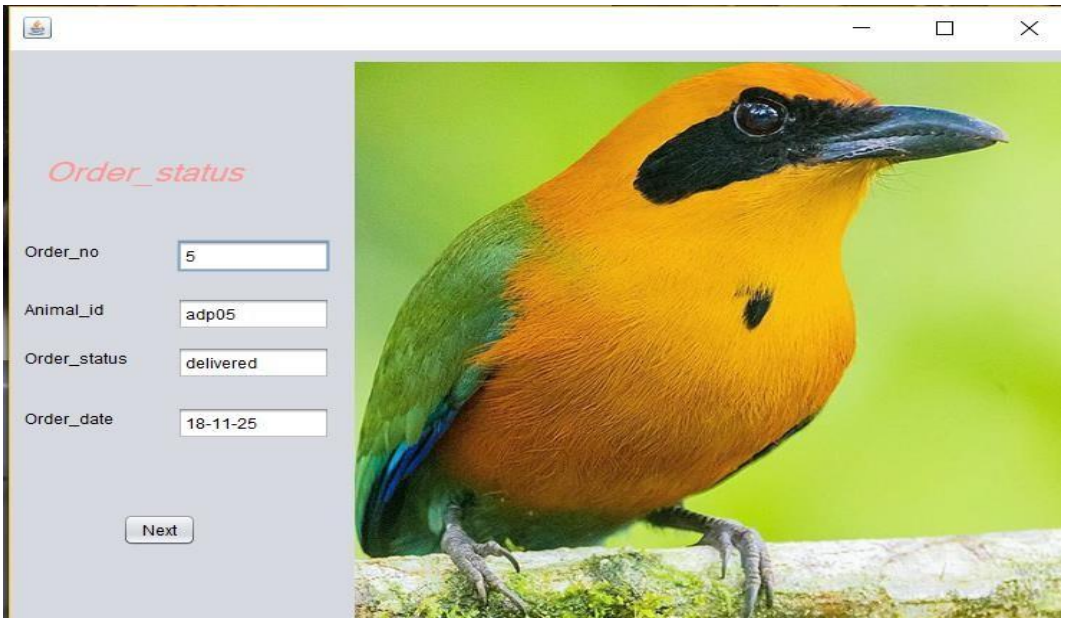


6.3 : Registration Page

6.4: Breed Page



6.5: Sale Page



6.4 :Order_status Page

CONCLUSION

ANIMAL ADOPTION provides the information required by the customer. The software is built with all options such as login, registration, select the breed, sale and order.

The objective of this project was successfully implemented which resulted in building up of a user-friendly, flexible interface. Various modules were included out of which channel head, users and sponsors were important. The detailed information of the animal or a particular breed and the customer details can be efficiently stored and retrieved.

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