UI INTERFACE

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Subject Code: MCAL25 Subject Name: User Interface Lab

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EXPERIMENT NO. 1

Q. Introduction to UI life cycle and UI tools.

UI Life Cycle:
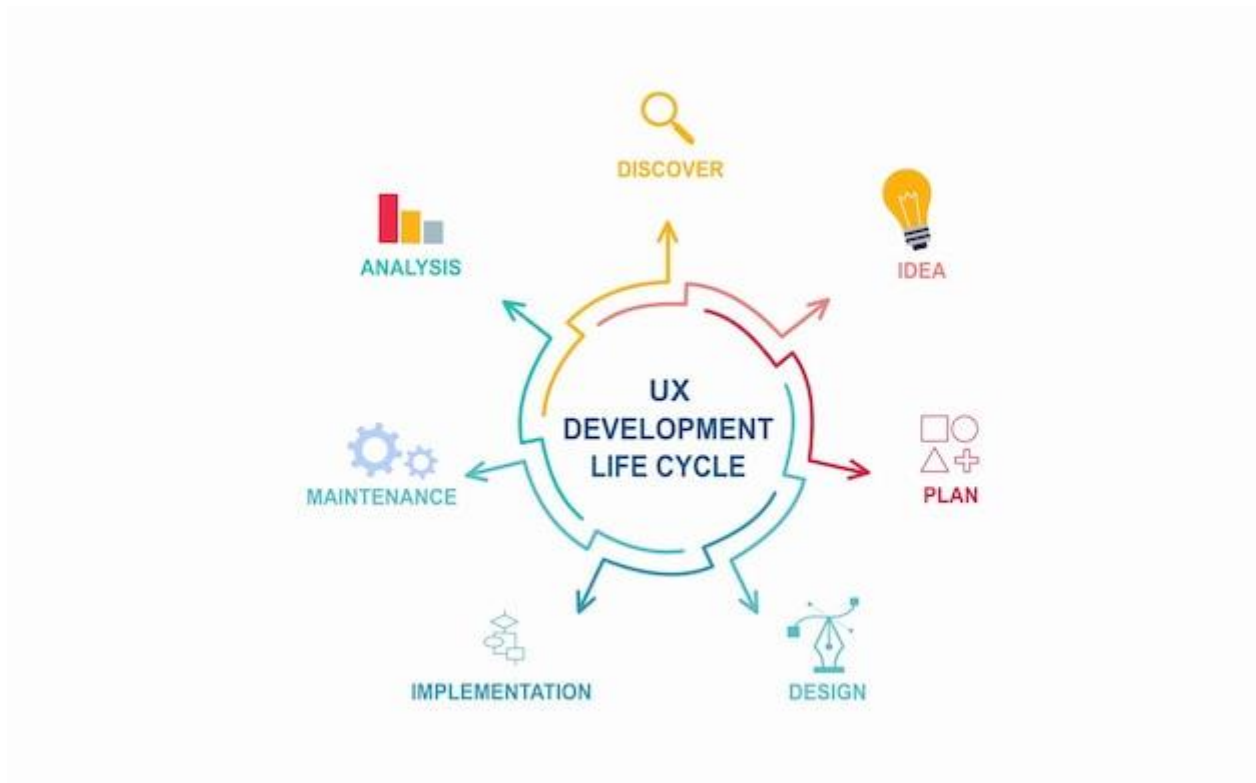
UI Tools:

1. In Vision:

In Vision is a web-based prototyping tool popular with both UX and UI designers alike. You can upload static design files and quickly turn them into high-fidelity, interactive prototypes.

2. Sketch:

The digital design app that every UI pro needs: Sketch. This is a vector-based tool, so you can easily resize anything that you draw without losing sharpness.

3. Figma:

Discover the very first in-browser interface design tool, Figma. With powerful editing tools and loads of handy features, Figma is a one-stop shop for designing, prototyping and gathering feedback. UI designers especially can take advantage of constraints feature, which adapts your designs when the screen size changes. With the components feature, it's also extremely easy to reuse elements across your designs.

4. Flinto:

Flinto is an interactive prototyping app for Mac which offers pretty much everything you need to bring your designs to life. Design micro-interactions and screen transitions, add video layers simply by dragging video or GIF files straight into your designs, incorporate UI sound effects and customizable scrolling—the list goes on.

5. Adobe XD:

Adobe XD is a vector-based tool for designing and prototyping user experiences for web, mobile, and even voice! If you're already familiar with the Adobe Creative Cloud suite, you'll feel right at home in Adobe XD—an extremely versatile tool which offers a whole host of features for designing, prototyping, sharing, collaborating, and creating a complete design system. XD natively supports Windows 10 and macOS, and is also available as a mobile app for both Android and iOS.

EXPERIMENT NO. 2

Q. Project Proposal and Requirement Gathering (Introduction of Project).

Project Name: ETERNAL BONDS

INTRODUCTION
Introducing "Eternal Bonds" a groundbreaking application designed to provide compassionate and comprehensive support for those navigating the delicate process of honoring their beloved pets after they pass away. Our platform seamlessly integrates pet funeral and cremation services with the option to create custom ornaments or jewelry using the ashes, offering solace and a lasting connection to cherished memories. With a user-friendly interface and a commitment to empathy, "**Eternal Bonds"** strives to ease the grieving process while celebrating the enduring love shared between pets and their human companions.

OBJECTIVES
1. Develop a user-friendly platform that allows pet owners to easily access information and services related to pet funeral and cremation options.
2. Provide a comprehensive database of reputable pet funeral homes and crematories, including detailed information about services offered, pricing, and customer reviews.
3. Implement a secure and efficient system for handling ashes, ensuring that each pets remains are respectfully and accurately processed according to the owners wishes.
4. Facilitate the creation of personalized ornaments or jewelry using pet ashes, offering a meaningful way for owners to memorialize their beloved companions.
5. Collaborate with artisans and craftsmen to provide a range of customizable options for pet memorialization, including various designs, materials, and styles.
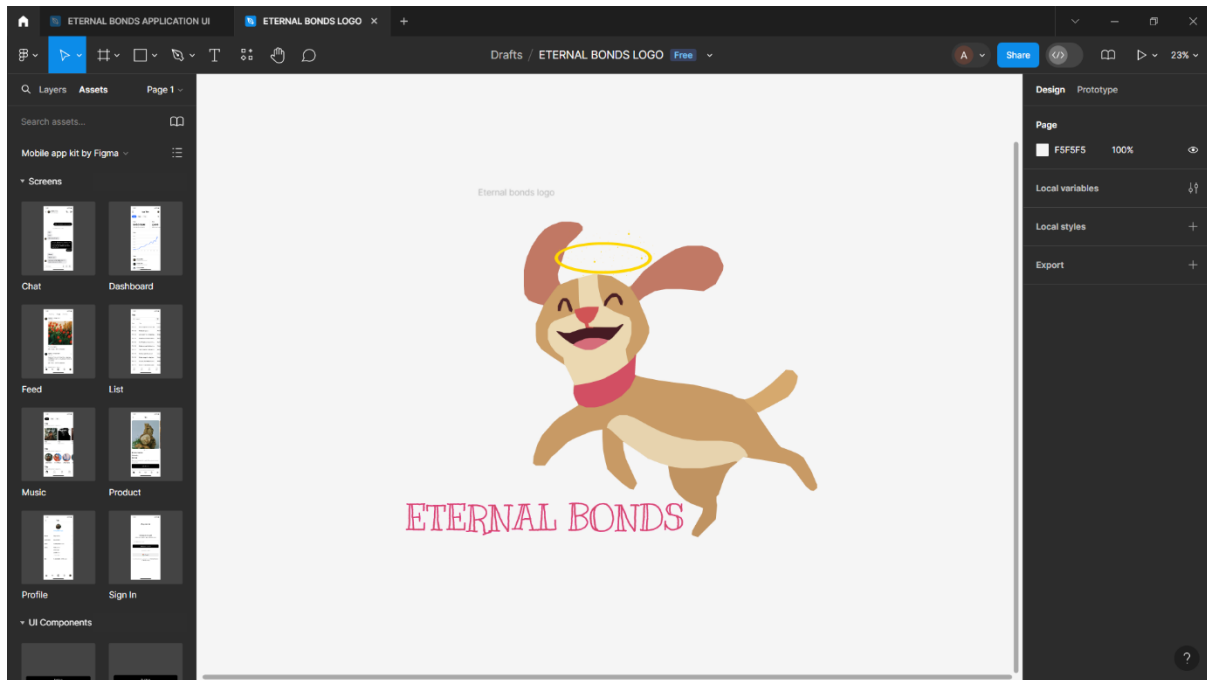
ADVANTAGES
1. Memorialization: Cremation and funeral services provide a formal way to memorialize and honor your pets life, allowing you to say goodbye in a meaningful way.
2. Personalization: Creating jewelry or ornaments from the ashes adds a personal touch to the memorialization process. It allows you to keep a physical reminder of your pet close to you, fostering a sense of connection and comfort.
3. Flexibility: The option to choose cremation and jewelry creation provides flexibility in how you choose to remember your pet. You can select designs and styles that resonate with your preferences and memories.

EXPERIMENT NO. 3

Q. Logo Designing.
Link: https://www.figma.com/design/emLs1ICqUFtMS7F9mddFFV/ETERNAL-BONDS-LOGO?node-id=0-1&t=7jWFkuov1c0mojY1-0

EXPERIMENT NO. 4

Q. Problem Statement: System Concept Statement.

ETERNAL BONDS Application Concept Statement

"Eternal Bonds" is a pioneering application dedicated to providing compassionate and comprehensive support for pet owners who are navigating the delicate process of honoring their beloved pets after they pass away. Our platform uniquely integrates pet funeral and cremation services with the ability to create custom ornaments or jewelry from the ashes, offering a profound and lasting connection to cherished memories.

Importance: The loss of a pet is a deeply emotional experience, and many pet owners seek ways to honor their pets' lives in a meaningful manner. However, the current market lacks a unified solution that combines both practical and sentimental services for pet memorialization.
"Eternal Bonds" fills this gap by offering a seamless and integrated platform where pet owners can arrange for respectful funeral and cremation services and simultaneously explore options to transform their pets' ashes into personalized keepsakes. This innovative combination provides a comprehensive and heartfelt approach to pet memorialization, standing out as a unique offering in the market.

Target Audience: Our primary audience comprises pet owners who are seeking a dignified and meaningful way to remember their pets. These individuals value convenience and a compassionate approach during their time of grief. "Eternal Bonds" caters to those who desire an easy-to-use platform that consolidates both services and products, providing a one-stop solution for all their memorialization needs. This audience includes individuals of all ages and backgrounds who have formed deep bonds with their pets and wish to commemorate their lives in a special and enduring way.

Benefits:

Comprehensive Services: "Eternal Bonds" offers an all-encompassing suite of services, from funeral and cremation arrangements to the creation of custom ornaments and jewelry. This holistic approach ensures that every aspect of the pet memorialization process is handled with care and professionalism.

User-Friendly Interface: Our platform is designed to be intuitive and easy to navigate, ensuring that users can effortlessly access the services and products they need during a difficult time.

Empathy and Support: At "Eternal Bonds," we prioritize empathy and understanding. Our commitment to providing compassionate support helps ease the grieving process, offering solace and a sense of peace to pet owners.
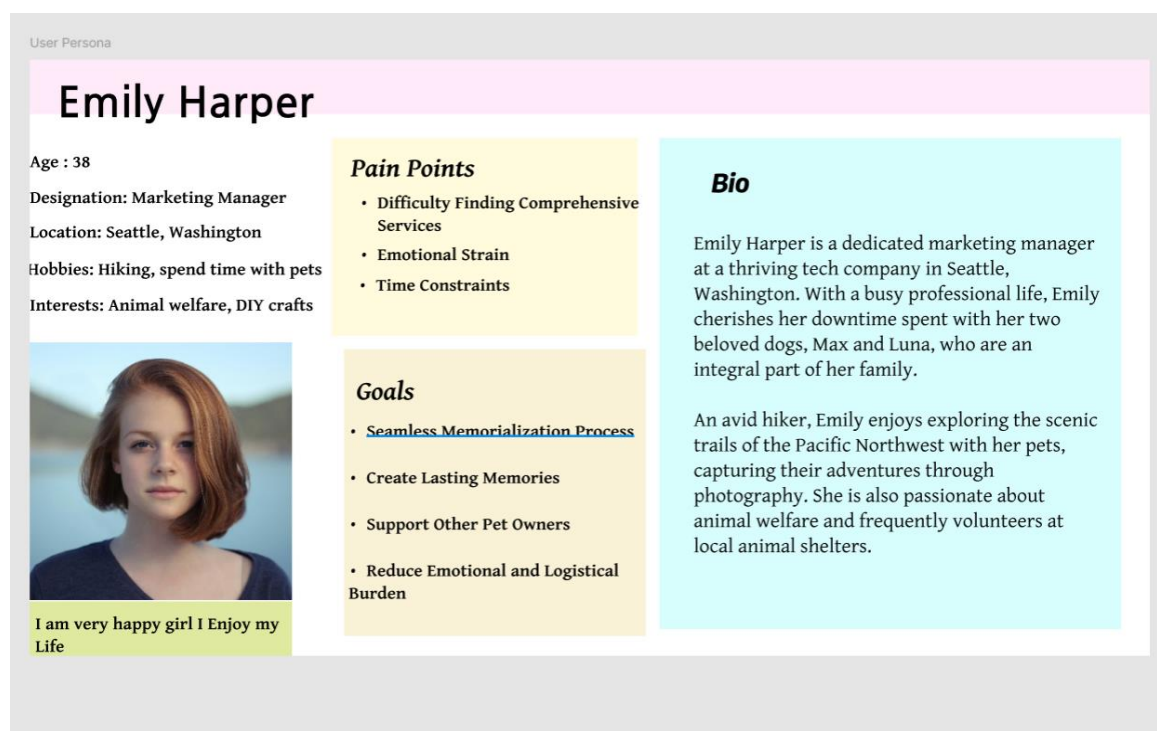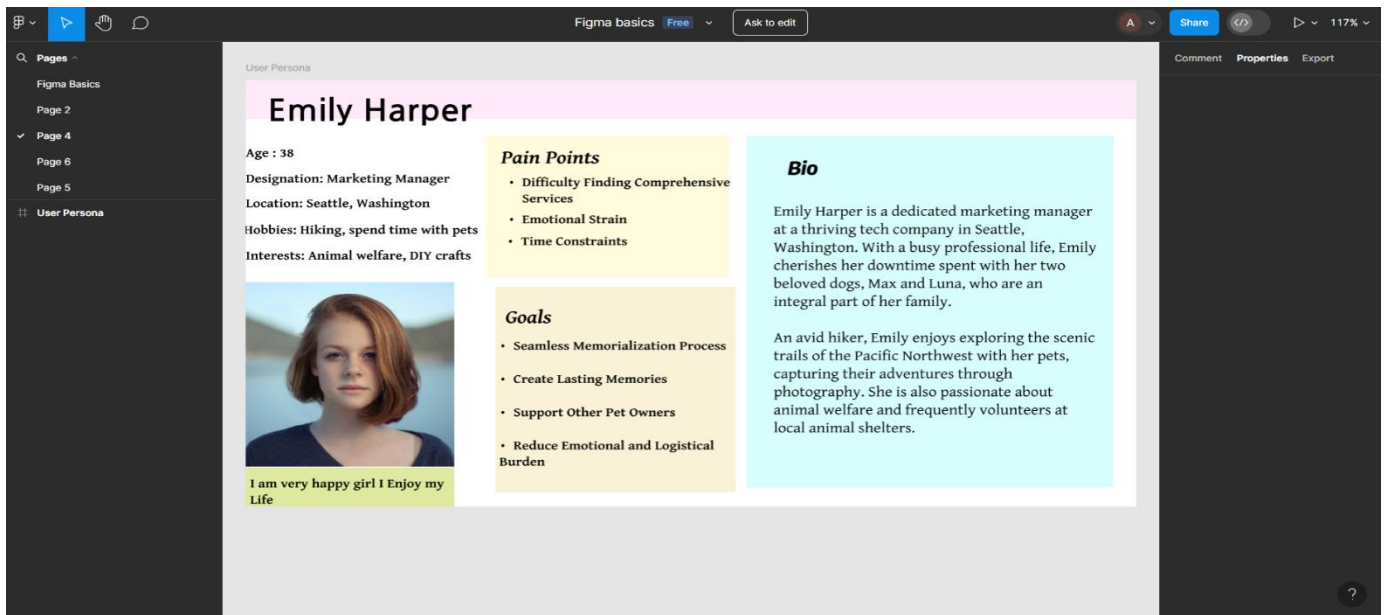
Lasting Mementos: By transforming ashes into personalized keepsakes, we enable pet owners to keep a tangible and beautiful reminder of their beloved pets, fostering an enduring connection and celebrating the love shared.

Convenience: The integration of services and products within a single platform saves time and effort for pet owners, allowing them to focus on their emotional journey rather than logistical details.

EXPERIMENT NO. 5

Q. Design a user persona.

Link: https://www.figma.com/design/6NsCMaMSBX8js8VP5pWhku/Figma-basics?node-id=606-167&t=zi1bXgqiMhcdJ84O-0
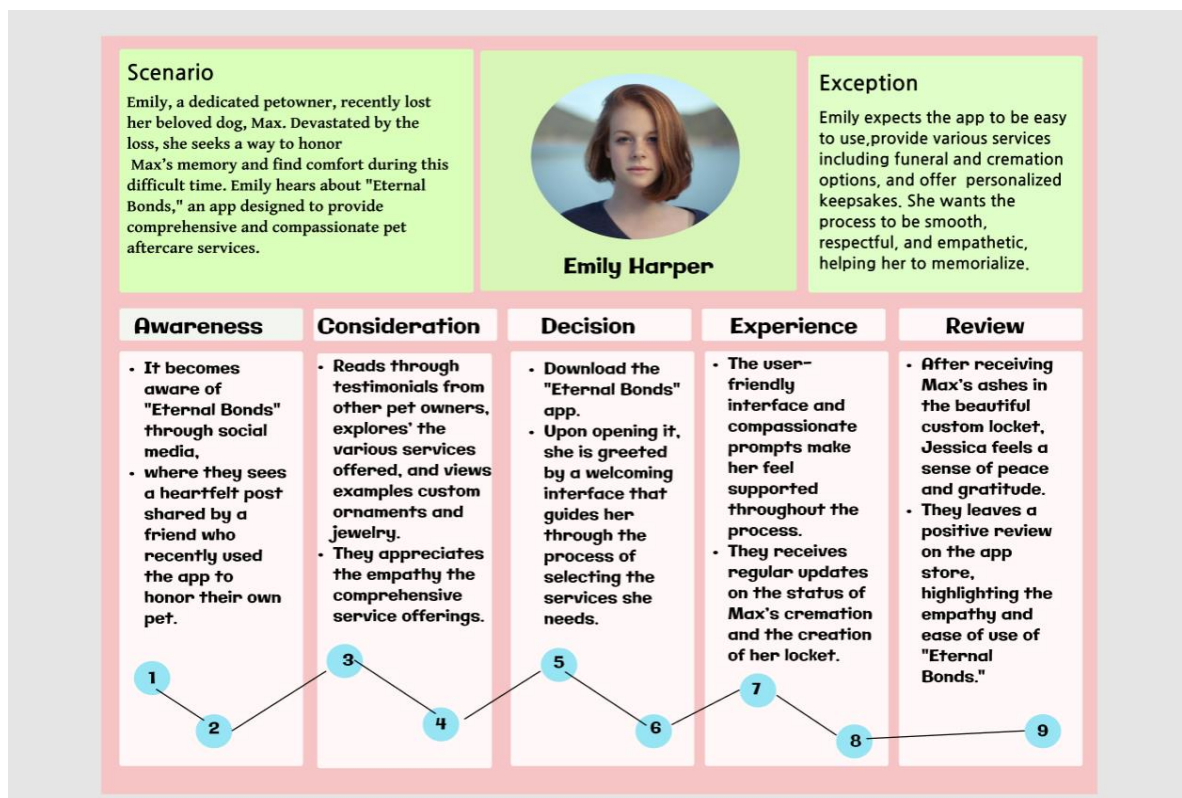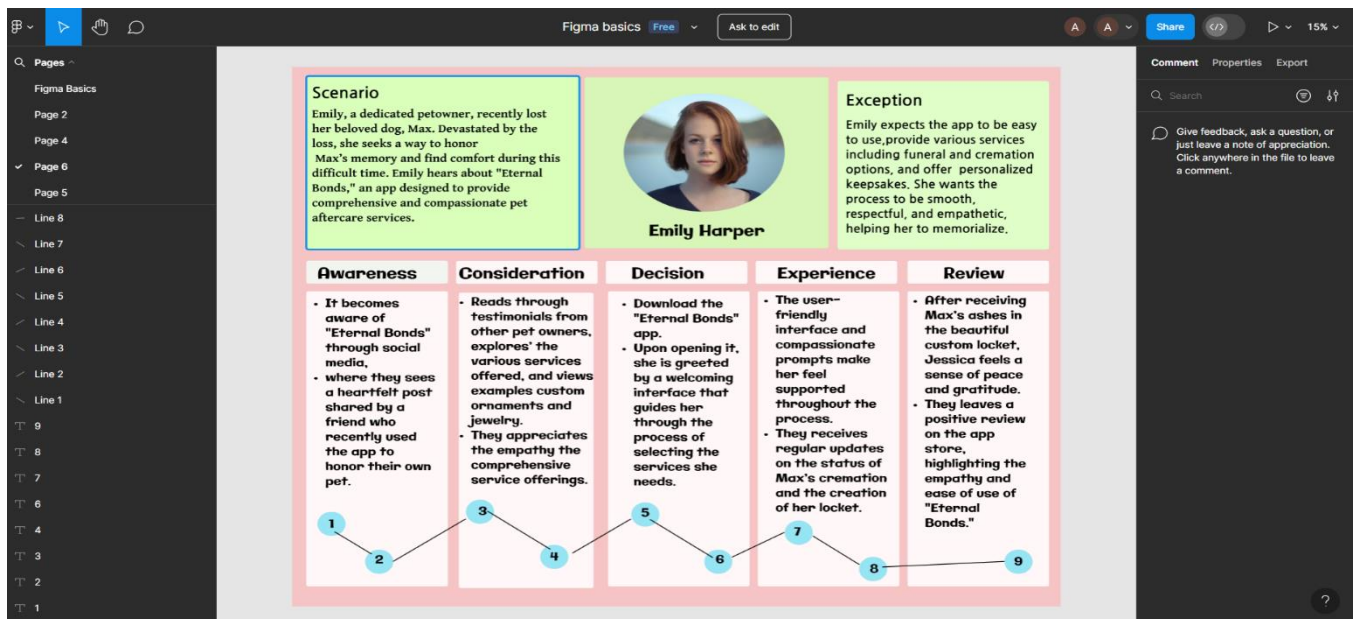
EXPERIMENT NO. 6

Q. Design a Customer Journey Map.

Link:
https://www.figma.com/board/MODcAuYNQh6uC8ytRzaBWC/Customer-Journey-Map-Template-(Community)-(Copy)?node-id=0-1&t=cVltlhB92stFKENY-1

EXPERIMENT NO. 7

Q. ER (Entity Relationship) Diagram.

ETERNAL BONDS:

ER Diagram stands for Entity Relationship Diagram, also known as ERD is a diagram that displays the relationship of entity sets stored in a database. In other words, ER diagrams help to explain the logical structure of databases. ER diagrams are created based on three basic concepts: entities, attributes and relationships.

ER Diagrams contain different symbols that use rectangles to represent entities, ovals to define attributes and diamond shapes to represent relationships.

ER Model stands for Entity Relationship Model is a high-level conceptual data model diagram. ER model helps to systematically analyse data requirements to produce a well-designed database. The ER Model represents real-world entities and the relationships between them. Creating an ER Model in DBMS is considered as a best practice before implementing your database.

Some E-R model notations are:

1. Entity: entity is thing or object that can be distinguish.

Ex: person is an entity as every person is distinguishable.

2. Attribute: each entity has set of attributes.

Ex: entity person has attributes like name age address gender etc

3. Relationship: relationship is an association among several entities
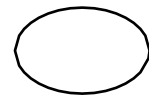
example and enquiry relationship is there between customer entity and Railway entity.
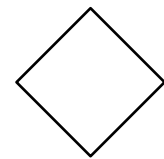
Some notation of E-R model are:

1. **Rectangle:** It represent entity set.

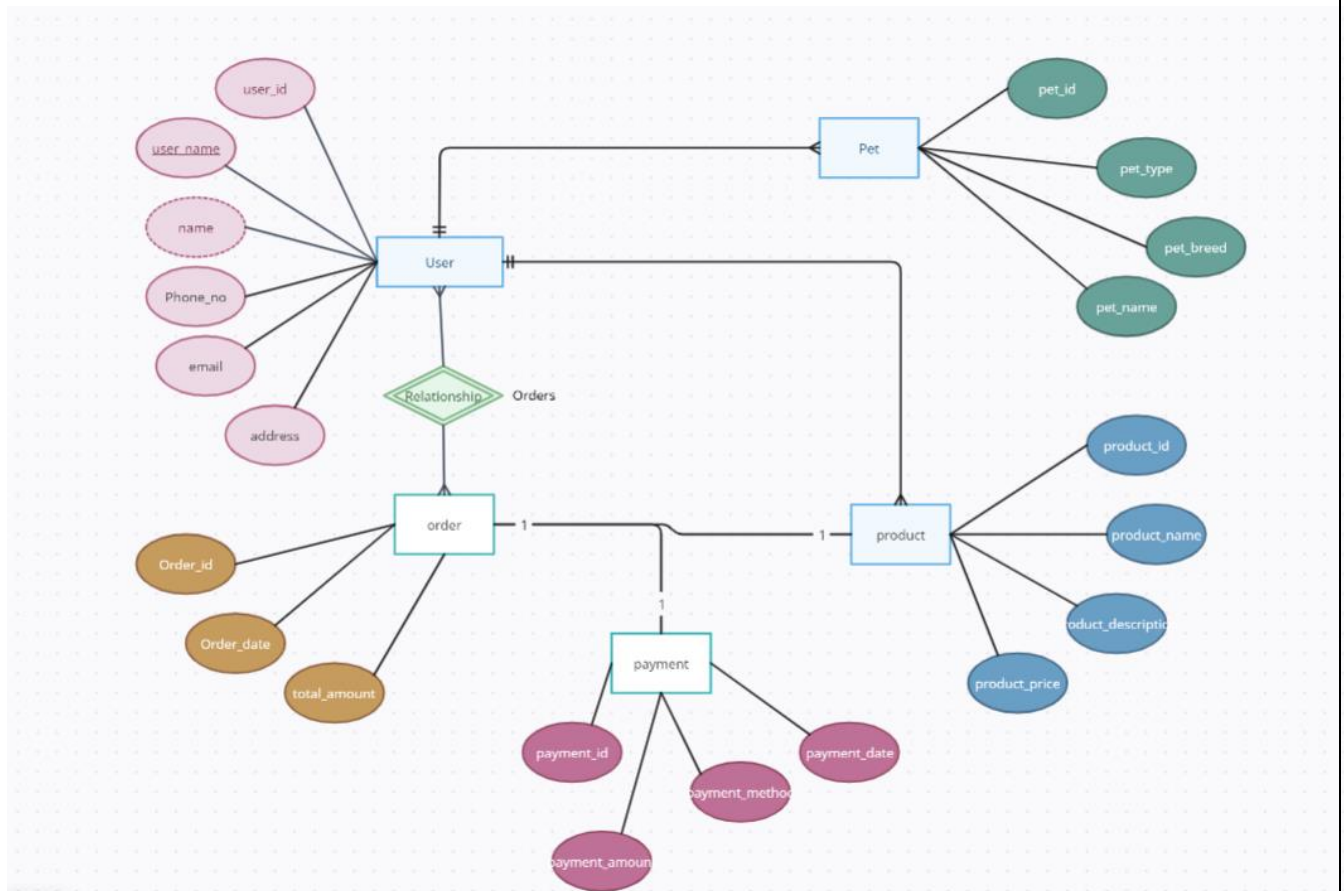2. **Ellipse:** It represent attributes.

3. **Diamond:** It represents relationship among entity set.

4. **Line:** Line lies between the attribute entity and entity to relationship.

E-R DIAGRAM: ETERNAL BONDS:

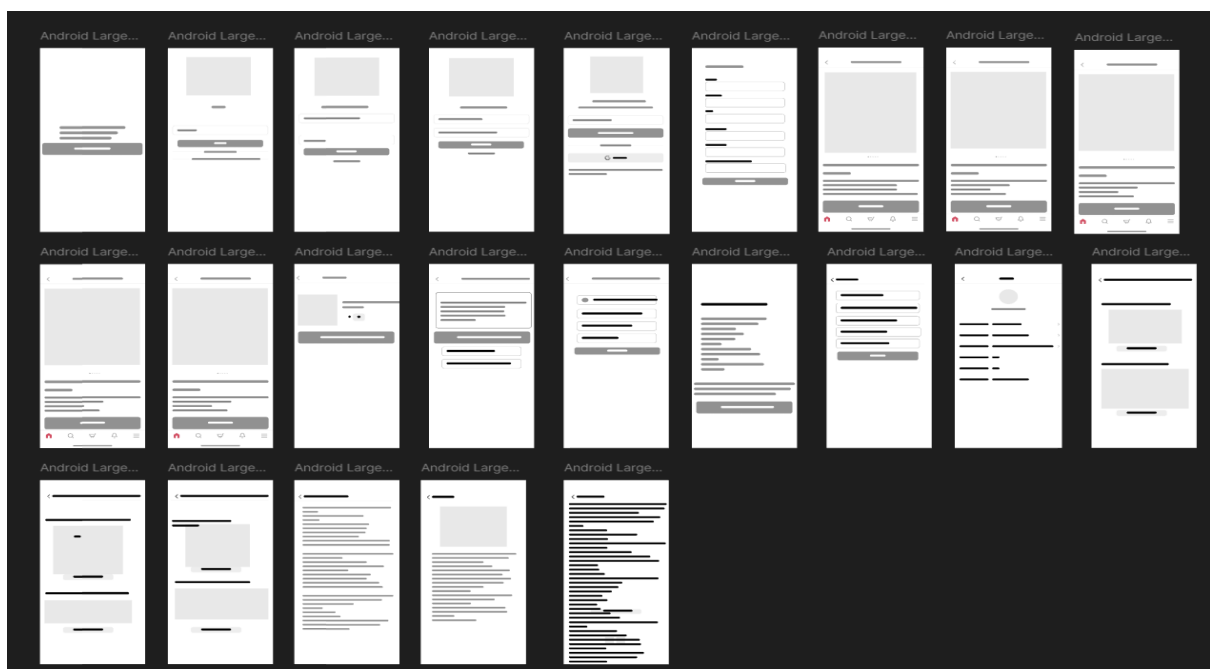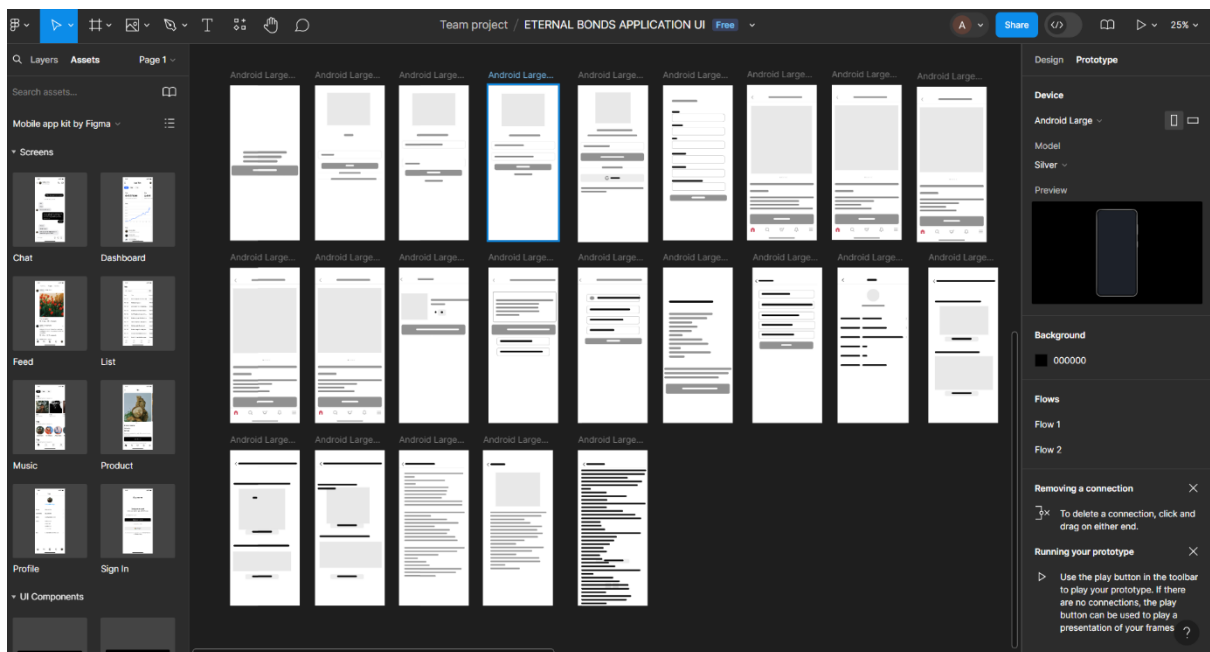# EXPERIMENT NO. 8

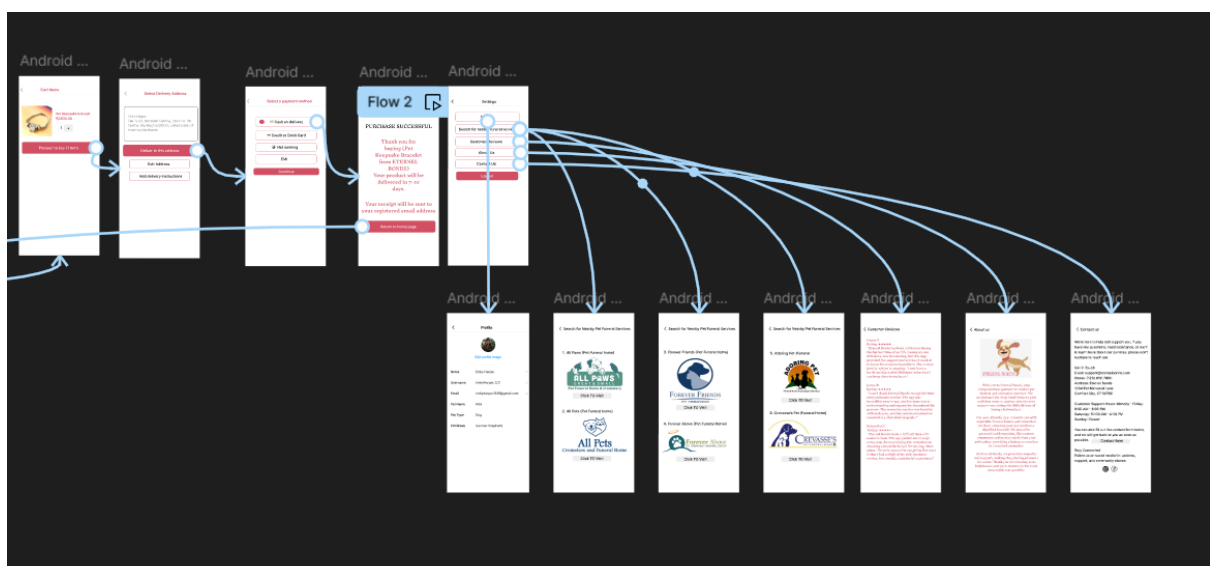## Q. Creation of scenario – Story Board.

EXPERIMENT NO. 9

Q. Create Wireframing:

Link: https://www.figma.com/design/wZh1sKSZSmRyg8lZ4a1br7/WIREFRAMES-(Copy)?node-id=0-1&t=u7qgyOVqSmGVidCG-0

EXPERIMENT NO. 10

Q. Create Prototyping:

Link: **https://www.figma.com/design/zsXVsNXhTeP4pY7Ssvub9O/ETERNAL-BONDS-APPLICATION-UI?node-id=0-1&t=TPotxrdA22xCbXom-0**

EXPERIMENT NO. 11

Q. Usability Evaluation of the Design. Testing of User Interface from third party (Test scripts).

Testing is the process of executing a program to find errors. To make our software perform well it should be error-free. If testing is done successfully it will remove all the errors from the software.

Types of Testing:

1. Unit Testing:

   It focuses on the smallest unit of software design. In this, we test an individual unit or group of interrelated units. It is often done by the programmer by using sample input and observing its corresponding outputs.

2. Integration Testing:

   The objective is to take unit-tested components and build a program structure that has been dictated by design. Integration testing is testing in which a group of components is combined to produce output.

3. Regression Testing:

   Every time a new module is added leads to changes in the program. This type of testing makes sure that the whole component works properly even after adding components to the complete program.

4. Smoke Testing:

   This test is done to make sure that the software under testing is ready or stable for further testing. It is called a smoke test as the testing of an initial pass is done to check if it did not catch the fire or smoke in the initial switch on.

5. Alpha Testing:

   This is a type of validation testing. It is a type of *acceptance testing* which is done before the product is released to customers. It is typically done by QA people.

6. Beta Testing:

   The beta test is conducted at one or more customer sites by the end-user of the software. This version is released for a limited number of users for testing in a real-time environment

7. System Testing:

This software is tested such that it works fine for the different operating systems. It is covered under the black box testing technique. In this, we just focus on the required input and output without focusing on internal working.

8. Stress Testing:

In this, we give unfavorable conditions to the system and check how they perform in those conditions.

9. Performance Testing:

It is designed to test the run-time performance of software within the context of an integrated system.

10. Acceptance Testing:

Acceptance testing is done by the customers to check whether the delivered products perform the desired tasks or not, as stated in requirements.

TYPES OF SOFTWARE TESTING
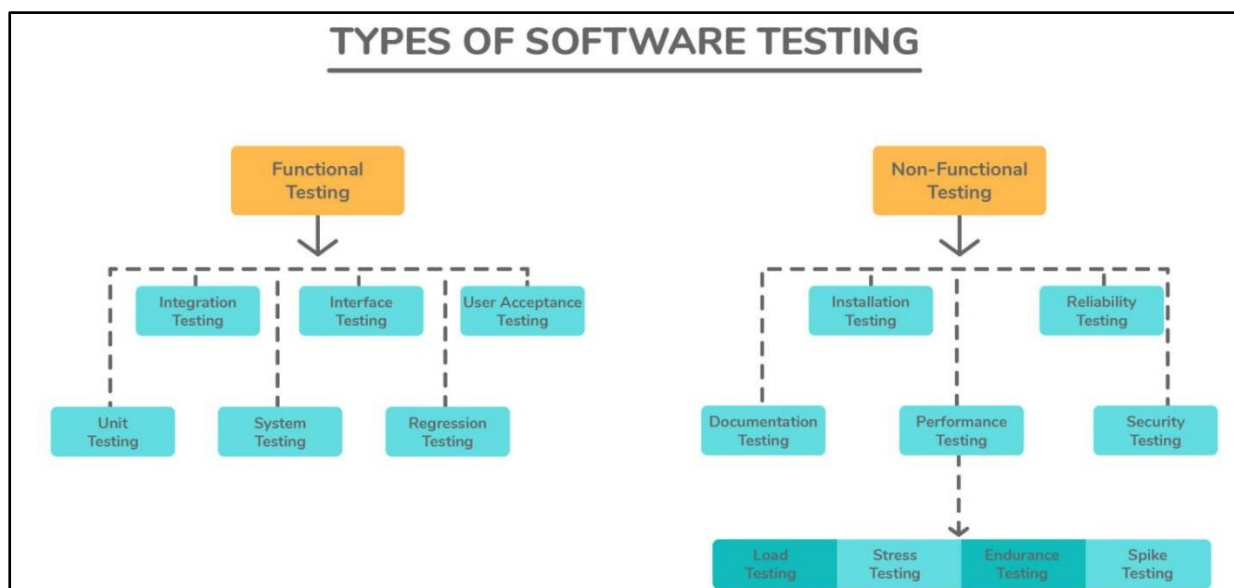
Sr.no	Action	Input	Expected Output	Actual Output	Test Result	Test Comment
1	Launch Application	Click on software	Login page	Login page	Pass	Successful
2	Enter Correct Username and Password	Username: abc Password: ***	Home Page	Home Page	Pass	Homepage will Display
3	If username and password are incorrect	Username: abc Password: ***	"Login failed"	"Login Failed"	Pass	Invalid Username and password
4	If email is not in correct format	Enter email in correct format	"Invalid Email"	"Invalid Email"	Fail	Unsuccessful
5	If email is in correct format	Enter Email Id	No error message	No error message	Pass	Successful
6	If entered Name is in number format	Enter Name in correct format	"Invalid Name"	"Invalid Name"	Pass	Successful
7	If Entered Name in Character format	Enter customer name	No error Message	No error Message	Pass	Successful
8	If Entered Mobile number is character Format	Enter Mobile number in correct format	"Invalid Number"	"Invalid Number"	Fail	Unsuccessful
9	If Entered Mobile number in number format	Enter Mobile number	No error message	No error Message	Pass	Successful

10	If entered Username is in character format.	Enter correct Username Id	"Invalid Id"	"Invalid ID"	Pass	Successful
11	If Entered Username is in Number format	Enter Username Id	No error message	No error message	Pass	Successful
12	If Entered Detail is Correct	Username: abc Password: ***	Access To app	Homepage will Display	Pass	Successful
13	If Entered Detail is Incorrect	Username: abc Password: ***	Access Denied	Entered Password or Username is incorrect	Homepage will not be Displayed	successful
14	If User sign up with valid data	Leaving all the fields blank	Displays warning message of fields cannot be blank	Pass	Pass	Successful
15	If User sign up with valid data	Leaving minimum one field blank	Displays warning message of fields cannot be blank	Pass	Pass	Successful
16	New User signing up with valid data	Entering the Details of existing user.	Displays Username or email already exists	Username or email already exists	Pass	Successful
17	Menu Button on Top left	Clicks on Menu button.	Menu should slide in from left of screen.	Displays menu from left of screen.	Pass	Successful
18	View products	Navigate to product page	Product listing are displayed	Product listings are displayed	Pass	Successful

19	Buy product	Select a product and click on buy now	User is directed to payments page	User is directed to payments page	Pass	Successful
20	Payment via cash/credit or debit/ net banking	Enter card detail or click ok directly if paying cash and click okay	Payment is processed, order confirmation message and receipt sent to mail	Payment is processed, order confirmation message and receipt sent to mail	Pass	Successful