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K J Somaiya School of Engineering
(formerly K J Somaiya College of Engineering)

**K. J. Somaiya School of
Engineering, Mumbai-77**
**Department of Computer
Engineering**



Batch: A1 Roll No.: 16010123012

Experiment No.: 06

Grade: AA / AB / BB / BC / CC / CD /DD

Signature of the Staff In-charge with date

Title: User interface design using UI tools for mini project

Aim: To enable the students learn different user interface design tools and their aspects

CO: Prepare the System Design and Model

Books/ Journals/ Websites referred:

1. Roger Pressman, “Software Engineering”, sixth edition, Tata McGraw Hill.

Pre Lab/ Prior Concepts:

The user interface Need:

System users often judge a system by its interface rather than its functionality. A poorly designed interface can cause a user to make catastrophic errors. Poor user interface design is the reason why so many software systems are never used. Most users of business systems interact with these systems through graphical interfaces although.

GUI characteristics

Windows Multiple windows allow different information to be displayed simultaneously on the user's screen. Icons different types of information. On some systems, icons represent files; on others, icons represent processes. Menus Commands are selected from a menu rather than typed in a command language. A pointing device such as a mouse is used for selecting choices from a menu or indicating items of interest in a window.

GUI advantages

They are easy to learn and use.

Users without experience can learn to use the system quickly

The user may switch quickly from one task to another and can interact with several different applications. Information remains visible in its own window when attention is switched. Fast, full-screen interaction is possible with immediate access to anywhere on the



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User Interface Design Models

User model — a profile of all end users of the system

Design model — a design realization of the user model

Mental model (system perception) — the user's mental image of what the interface is

Implementation model — the interface "look and feel" coupled with supporting information that describe interface syntax and semantics

User interface design analysis:

The overall process for analysing and designing a user interface begins with the creation of different models of system function (as perceived from the outside). You begin by delineating the human- and computer-oriented tasks that are required to achieve system function and then considering the design issues that apply to all interface designs. Tools are used to prototype and ultimately implement the design model, and the result is evaluated by end users for quality.

Study and describe any one user interface tool:

Figma is a cloud-based user interface design tool used to create interactive prototypes, wireframes, and layouts for websites and applications. It allows real-time collaboration, enabling multiple users to work on the same project simultaneously. With features like reusable components, vector editing, and built-in prototyping, Figma simplifies the design process and ensures consistency. Being web-based, it is easily accessible from any device, making it a popular choice for UI/UX designers and development teams.

Diagram and UI design of your selected topics/ Wireframe design:



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Sign in to your account

A dark-themed sign-in form with fields for Email and Password. Below the fields is a checkbox for accepting terms and conditions and a privacy policy link. A 'Sign In' button is at the bottom.

Email _____
Password _____
forgot password?
 I agree with the terms and conditions and privacy policy
Sign In

Welcome Back!

Medislot provides an easy-to-use online platform for seamless medical appointment scheduling. We offer patients the ability to quickly book, reschedule, or cancel appointments, while enabling doctors to manage their availability and view appointments in real time.

Dont have an account? Sign Up!

Sign Up

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Already have an account? Sign in!

Sign in

Sign Up to your account

A dark-themed sign-up form with fields for Username, Email, and Password. Below the fields is a checkbox for accepting terms and conditions and a privacy policy link. A 'Sign Up' button is at the bottom. A 'Select Role' dropdown is located above the form.

Select Role ▾

Username _____
Email _____
Password _____
forgot password?
 I agree with the terms and conditions and privacy policy
Sign Up

Doctor's UI:



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Welcome Back

Find doctors Location Search EN Aditya

Dashboard Calendar Profile Help Logout

Nearby Doctors

Please enable your location, so we can find nearby doctors [Enable Now](#)

Upcoming Appointments View All >

June 2025 Mon Tue Wed Thu Fri Sat Sun

3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

No upcoming appointments

Recent Patients View All >

Amanda Clara Age: 33 yrs Female Tuesday, 24 May 10:00 AM-11:00 AM ₹1000 View Documents

Jason Shatsky Age: 47 yrs Male Tuesday, 24 May 11:00 AM-12:00 PM ₹700 View Documents

Jessie dux Age: 28 yrs Female Wednesday, 25 May 01:00 PM-02:00 PM ₹800 View Documents

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Nearby Doctors View All >

Dr. Raj Gaggar Cardiologist 1 km Refance Hospital

Dr. Ram Sharma Gastrologist 2 km Nariman House, Churchgate

Dr. Arya Singh Pediatric 1.5 km Primedial House, Panal

Upcoming Appointments View All >

June 2025 Mon Tue Wed Thu Fri Sat Sun

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Hi, Aditya

Patient Records

Yesterday Today Past 24 May' 25

Amanda Clara 🕒 09:00am - 09:30am Edit	View in Detail
Jason Shastky 🕒 09:00am - 09:30am Edit	View in Detail
Jessie Dux 🕒 09:00am - 09:30am Edit	View in Detail
Amanda Clara 🕒 09:00am - 09:30am Edit	View in Detail
Amanda Clara 🕒 09:00am - 09:30am Edit	View in Detail
Amanda Clara 🕒 09:00am - 09:30am Edit	View in Detail

Hi, Aditya

Profile

EN 🔔

General Consultation History

My Profile

Dr. Aditya Baheti
Cardiologist
India [Edit](#)

Personal Information

Name Aditya Baheti	Date Of Birth 03/04/1996	Age 56
Phone Number + 91 9653576709	Email Address Email@gmail.com	

Disease History/ Allergies

Speech None	Speech None
Physical None	

General

Change Password [Change](#) Notifications Enable Notifications



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Hi, Aditya

Profile

EN May'25

General Consultation History

History

Yesterday

- Arpita Singh 9:00am - 10:00am
- Sharon Verma 10:00am - 11:00am
- Abhishek Dalal 12:00pm - 1:00pm
- Samay Raina 1:00pm - 2:00pm

Today

- Janice Edward 9:00am - 10:00am
- Aaron Davis 10:00am - 11:00am
- Leslie Alexander 12:00pm - 1:00pm
- Ambuj Rai 1:00pm - 2:00pm

25/05/2025

- Jacob Jones 9:00am - 10:00am
- Wade Warren 10:00am - 11:00am
- Robert Fox 12:00pm - 1:00pm
- Cody Fisher 1:00pm - 2:00pm

Hi, Aditya

Profile

EN May'25

General Visit History Documents

Aditya Baheti (Male)
Mumbai, India

Personal Information

Name	Date Of Birth
Aditya Baheti	07/01/1997
Phone Number	Email Address
+91 3435657879	aditya@email.com

Disease History/ Allergies

Pre-existing Diseases

Diabetes X Apraxia X

Allergies

Peanuts X Dust X

Physical

Arthritis X



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Hi, Aditya

Profile

General Visit History Documents

History

May'23 New Appointment

Mon 02 09:00am - 09:30am View Documents Edit Aditya Baheti

Fri 04 09:00am - 09:30am View Documents Edit Aditya Baheti

EN

Dashboard Calendar Profile Help Logout

Hi, Aditya

Profile

General Visit History Documents

Documents

May'25 + New Document

Blood report May 14, 2023, 13:25 PM

Dr. Ingais Prescription May 14, 2023, 13:25 PM

Blood report May 14, 2023, 13:25 PM

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Hi, Aditya

Calender

Upcoming Past May 25 + New Appointment

Thu 15	⌚ 09:00am - 09:30am	View Documents	Edit
Fri 15	⌚ 09:30am - 10:30am	View Documents	Edit
Mon 19	⌚ 09:00am - 09:30am	View Documents	Edit

June'25

Mon 02	⌚ 09:00am - 09:30am	View Documents	Edit
Tue 03	⌚ 09:00am - 09:30am	View Documents	Edit
Wed 04	⌚ 09:00am - 09:30am	View Documents	Edit

[View in Calender >](#)

Hi, Aditya

Calender

May 2025

Mon	Tue	Wed	Thu	Fri	Sat	Sun
31	01	02	03	04	05	06
07	08	09	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	01	02	03	04

Upcoming

Today

Raj Sharma	10:00am - 11:00am	May 25, 2025
Ananya Rajput	11:00am - 11:45am	May 25, 2025
Ambuj Rai	12:00pm - 1:00pm	May 25, 2025

Tomorrow

Siddhart Singh	10:00am - 11:00am	May 26, 2025
Aaryan Sharma	11:00am - 12:00pm	May 26, 2025
Aditey RK	02:00pm - 03:00pm	May 26, 2025

Client's UI:

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Upcoming Appointments

June 2025

Mon	Tue	Wed	Thu	Fri	Sat	Sun
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

No upcoming appointments

Recommended Doctors

View All

Dr. Amanda Clara Specialist 12 years experience Pediatric Tue, Thu 10:00 AM-01:00 PM ₹1000 Starting Book an appointment	Dr. Jason Shatsky Specialist 10 years experience Surgical Tue, Thu 10:00 AM-01:00 PM ₹700 Starting Book an appointment	Dr. Jessie dux Specialist 7 years experience Gastroenterology Tue, Thu 10:00 AM-01:00 PM ₹800 Starting Book an appointment
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Hi, Aditya

Welcome Back

Find doctors Location Search EN Aditya

Dashboard Calendar Profile Help Logout

Nearby Doctors

View All

Dr. Raj Gaggar Cardiologist 1 km Reliance Hospital	Dr. Ram Sharma Gastrologist 2 km Nariman House, Churchgate	Dr. Arya Singh Pediatric 1.5 km Primodai House, Parel
--	--	---

Upcoming Appointments

June 2025

Mon	Tue	Wed	Thu	Fri	Sat	Sun
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

No upcoming appointments

Recommended Doctors

View All

Dr. Amanda Clara Specialist 12 years experience Pediatric Tue, Thu 10:00 AM-01:00 PM ₹1000 Starting Book an appointment	Dr. Jason Shatsky Specialist 10 years experience Surgical Tue, Thu 10:00 AM-01:00 PM ₹700 Starting Book an appointment	Dr. Jessie dux Specialist 7 years experience Gastroenterology Tue, Thu 10:00 AM-01:00 PM ₹800 Starting Book an appointment
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MediSlot

Hi, Aditya

Profile

EN ⓘ

General My History My Documents

Aditya Baheti (Male)
Mumbai, India [Edit](#)

Personal Information [Edit](#)

Name: Aditya Baheti Date Of Birth: 07/01/1997
Phone Number: +91 3435657879 Email Address: aditya@email.com

Disease History/ Allergies

Pre-existing Diseases: Diabetes X, Apraxia X
Allergies: Peanuts X, Dust X

Physical: Arthritis X

General

Change Password [Change](#) Notifications [Enable Notifications](#)

MediSlot

Hi, Aditya

Profile

EN ⓘ

General My History My Documents

History

10 May [View in Detail](#)

Dr. Raj Gaggar ₹1500
09:00am - 09:30am

16 May [View in Detail](#)

Dr. Raj Gaggar ₹1500
09:00am - 09:30am

No more appointments this month!



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Hi, Aditya

Profile

General My History My Documents

Documents

May 25 + New Document

Blood report	Dr. Ingals Prescription	Blood report	Blood report
May 14, 2023, 13:25 PM	May 14, 2023, 13:25 PM	May 14, 2023, 13:25 PM	May 14, 2023, 13:25 PM
Blood report	Blood report	Blood report	Blood report
May 14, 2023, 13:25 PM	May 14, 2023, 13:25 PM	May 14, 2023, 13:25 PM	May 14, 2023, 13:25 PM

Hi, Aditya

Calender

EN ⓘ Aditya

May 2025

Mon	Tue	Wed	Thu	Fri	Sat	Sun
31	01	02	03	04	05	06
07	08	09	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	01	02	03	04

Upcoming

Tomorrow

Dr. Sameer Gaggar
10:00am - 11:00am May 25, 2025

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♦ MediSlot

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←

Dr. Raj Gaggar

30 mins

Fees: ₹1500

Select Date and Time

May 2025

MON	TUE	WED	THU	FRI	SAT	SUN
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Thursday, 10th May

10:30am 11:30am 02:30pm 03:00pm 03:30pm

04:30pm 05:00pm 05:30pm

Next

♦ MediSlot

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←

Dr. Raj Gaggar

30 mins

Fees: ₹1500

02:30pm - 03:00pm, Thursday,
May 10th

Enter Details

Patient's Name
Aditya Baheti

Patient's Age
28 yrs

Payment Details

Gpay

Paytm

Other UPI apps

Confirm

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❖ MediSlot

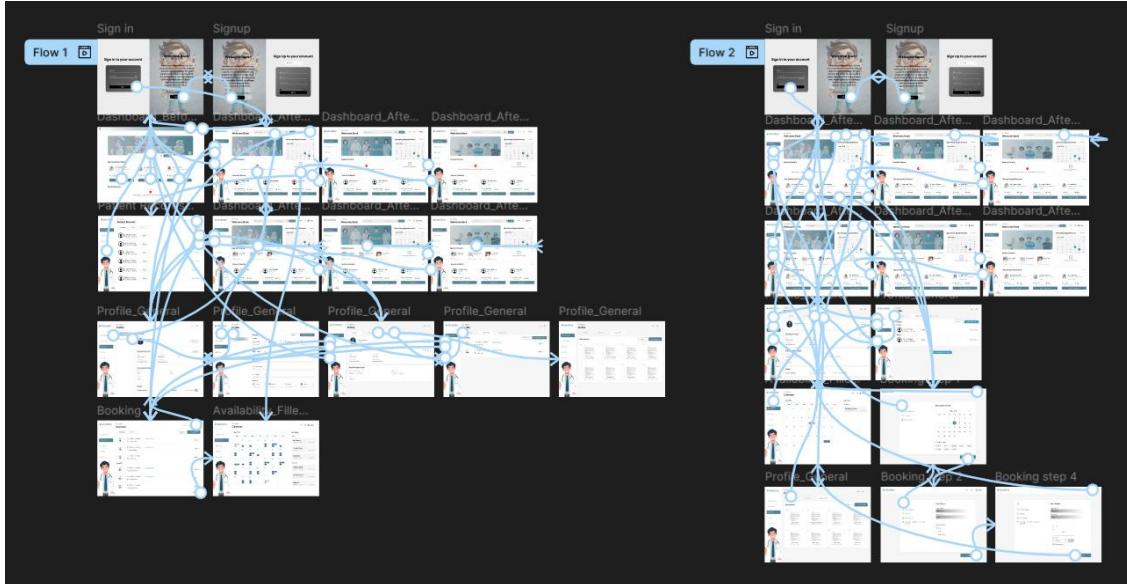
EN ▾



Aditya

The screenshot shows a booking interface for a medical appointment. On the left, a summary of the appointment is displayed: Doctor: Dr. Raj Gaggar, Duration: 30 mins, Fees: ₹1500, and Date: 02:30pm - 03:00pm, Thursday, May 10th. On the right, the 'Enter Details' section shows Patient's Name (Aditya Baheti) and Patient's Age (28 yrs). Below this is a payment section for UPI, showing options for Google Pay and manual entry of a UPI ID (123456@upi), with a 'Verifying' status. A checkbox for saving the UPI ID for future use is also present. At the bottom right is a 'Confirm' button.

Prototyping:



Figma Link:

<https://www.figma.com/design/rC93MCF8c5qWnEHGjTFmWn/MediSlot?node-id=0-1&t=BdaO63EgGuPiRanJ-1>



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CONCLUSION:

Through this experiment, we learned the importance of user interface design in developing effective and user-friendly software systems. A well-designed UI enhances the user experience, reduces the chances of errors, and makes the system easy to learn and navigate. By using tools like Figma, we can efficiently create wireframes, prototypes, and interactive designs that reflect the final product. This experiment helped us understand the process of designing interfaces that are visually appealing, functional, and aligned with user needs.

Post Lab Descriptive Questions

1. State various types of UI design tools.

Various types of UI design tools are:

- **Figma** – A cloud-based tool for collaborative UI/UX design and prototyping.
- **Adobe XD** – Used for designing and creating interactive prototypes.
- **Sketch** – A vector-based tool for designing user interfaces and wireframes.
- **InVision** – Focuses on building interactive prototypes and collaboration.
- **Balsamiq** – A simple tool for creating quick, low-fidelity wireframes.