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SAP ID: 60004200049
BRANCH : COMPUTER ENGINEERING(A1)
SUBJECT : Ubiquitous Computing
EXPERIMENT – 4
Human Computing Interface

NAME - PRACHI PATEL

SAP ID - 60004200049

BRANCH - Computer Engineering

Experiment - 4 :-

Aim - To design an interface in order to study Human Computer (Machine) Interaction

Theory - Human Computer Interaction, is a field of study that focuses on the design, evaluation and implementation of computer systems and interfaces that are intuitive, efficient and enjoyable for human users. HCI combines principles from computer science, psychology and design to create user-centered system that take into account the needs, abilities and preferences of the user.

HCI research and development often involve iterative design processes that incorporate user feedback and usability testing to ensure that final product is both functional and easy to use. This may involve creating wireframes or prototypes of interfaces, conducting user studies to evaluate different design options, and implementing the final product.

HCI includes -

1) Interface design - This involves designing user interface that are easy to navigate, aesthetically pleasing and responsive to user input.

2) User experience design - UX design focuses on creating interfaces that are both effective and enjoyable to use, taking into account the user's emotions and overall experience with the system.

3) Accessibility - Accessibility involves designing systems that can be used by individuals with a wide range of abilities and disabilities

including those who are visually impaired, hearing impact or have mobility issues.

4) Usability testing – Usability testing involves evaluating the effectiveness and efficiency of an interface through user feedback and observation.
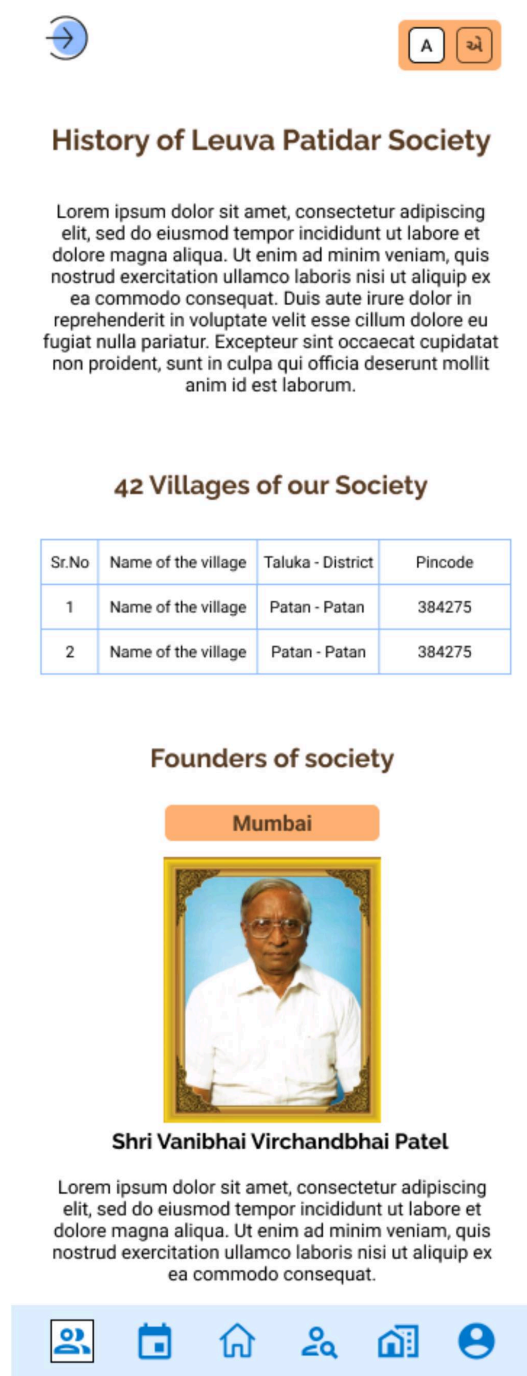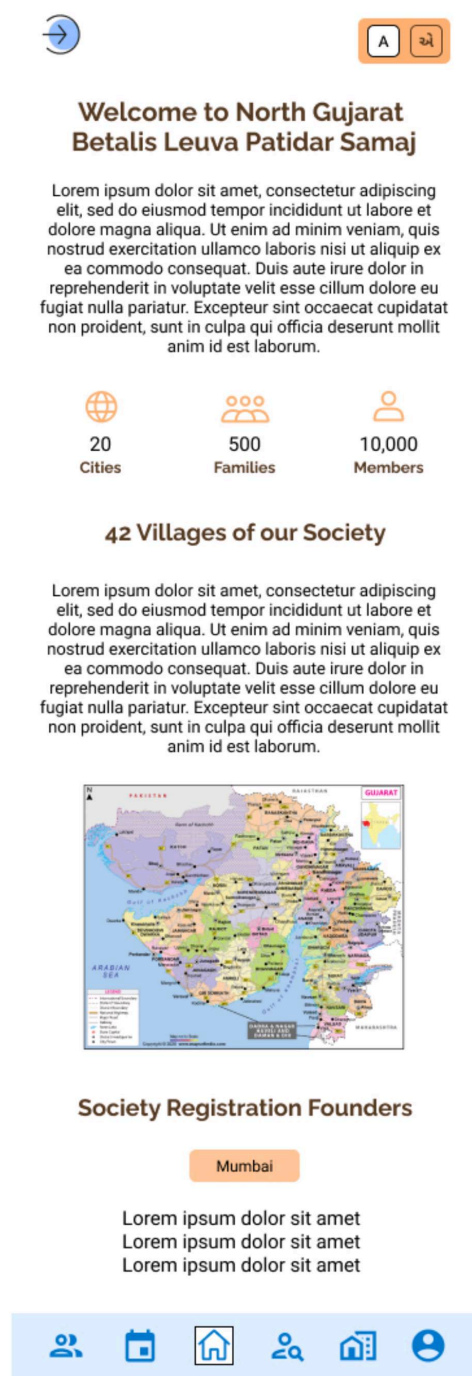   HCI refers to the processes and models for design and operational interface for some products. For many users, the user interface (UI) part of system is the product. Poorly designed UIs can lead to both higher training costs and higher usage costs and of course leads to poor product sales. Poor UIs can lead to higher error rates not acceptable in safety critical systems that require some human interaction.

Figma Link -

It is a community based application to search Family & Personal Details of the members.

https://www.figma.com/file/wmvirmYhENEECayNskZQpS/42-LP---Prachi?t=n5a8RtI7IaaZvhi9-0

Design Screens:

Welcome to North Gujarat Betalis Leuva Patidar Samaj

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20	500	10,000
Cities	Families	Members

42 Villages of our Society

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Society Registration Founders

Mumbai

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History of Leuva Patidar Society

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42 Villages of our Society

Sr.No	Name of the village	Taluka - District	Pincode
1	Name of the village	Patan - Patan	384275
2	Name of the village	Patan - Patan	384275

Founders of society

Mumbai

Shri Vanibhai Virchandbhai Patel

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List of Members

Total Members : 100 | Total Families : 100

∇ Filter ▼

City ∧
- ☑ All
- ☐ All
- ☐ All
- ☐ All

Village ∧
- ☐ All
- ☐ All
- ☐ All
- ☐ All

Gender ∧
- ☐ Female
- ☐ Male

Name
Search by Name

Search

Patel Jayeshbhai
Address

- 🗓 Birth Date
- ⚲ Current City
- 🏠 Village
- ☖ Male
- 🩸 Blood Group
- 📞 Phone number
- 🎓 Education
- 💼 Occupation
- 👥 Marital Status

< Back   A | એ

New Member Details

📷 Photo

👤 **Name**

⊞ **Relation with main member**

📍 **Country**

⚲ **Current City**

📞 **Contact Number**

🗓 **Birth Date**

🎓 **Education**

💼 **Occupation**

☖ **Gender**

🩸 **Blood Group**

👥 **Marital Status**

🏘 **In-laws Village Name**

Add Member

Family Details

Village :	Shakh:

Village Address ✏
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Home Address ✏
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Occupation Address ✏
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Add another Occupation Address

List of members   Add member +

Patel Jayeshbhai
- 🏳 Current City
- ⚥ Male
- 🩸 Blood Group

Edit ✏

- 🖼 Relation with main member
- 📞 Phone number
- 📅 Birth Date
- 🎓 Education
- 💼 Occupation
- 👥 Marital Status
- 🏤 In-laws Village

< Back

Event Name
22-01-2022

- 📍 Venue
- 📅 10:00 am - 5:00 pm
- 📷 View Event Photos(drive link)

About

Event Pdf link

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Conclusion -

On the basis of interface design to research and comprehend Human computer interface utilising Figma, a web application for a social community was created. The HCI was designed to meet the basic demands of the user experience, usability, accessibility and interface centered around user's needs and preferences.