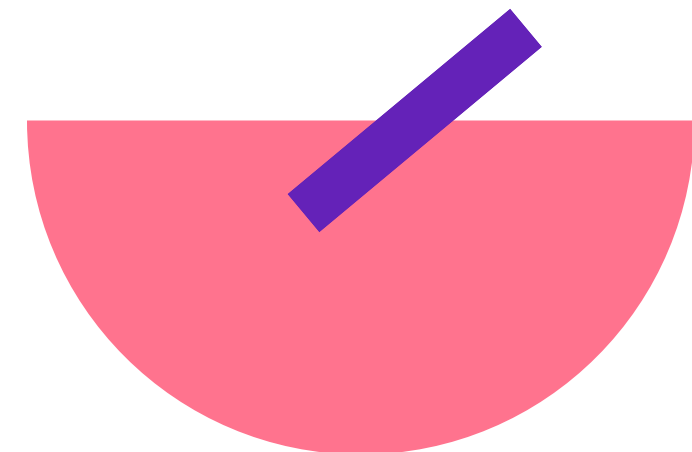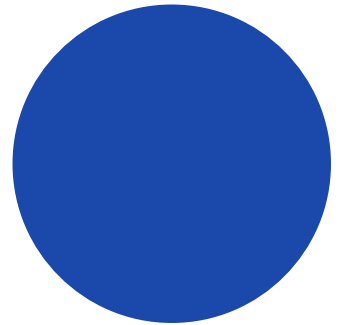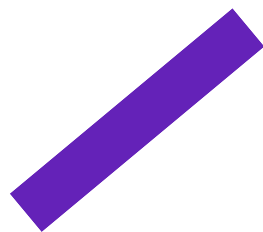# KAVACH

Women's safety app

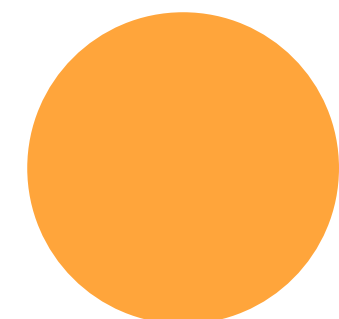C23

KSHITIJ MAKHIJA - 2103106
PRATISH MAKHIJA - 2103107
ARNAV MALVIA - 2103109
RISHAB MANDAL - 2103110
RITIK MANDAL - 2103111
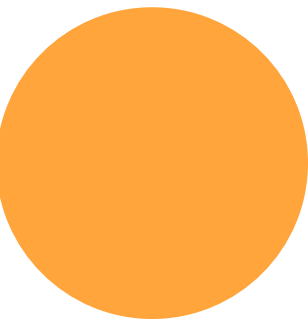
KAVACH

Women Safety App

Problem Statement

New age women safety app
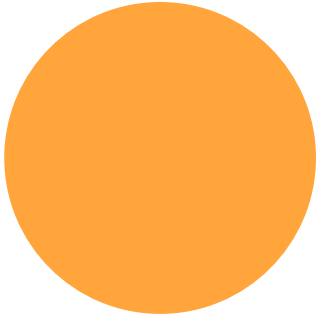
- Women in India face significant safety challenges.
- Instances of harassment, violence, and discrimination persist.
- These issues occur in public spaces, workplaces, commutes, and homes.

Objectives

- To provide enhanced safety
- To provide users with a friendly and easy to use interface
- To value privacy and security
- Inclusivity
- To keep in mind rules of legal Aid and resources

Significance

1. Enhanced Personal Safety
2. Emergency Response
3. Community Building
4. Education and Awareness
5. Reporting and Evidence
6. Travel Assistance
7. Tech for Good
8. Advocacy and Policy Change
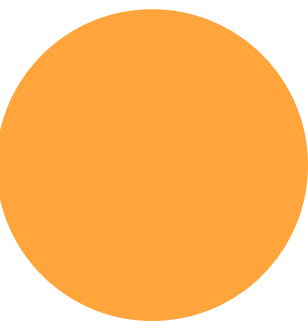
Plan

1. Research and Requirement Analysis
2. Hardware Setup
3. Emergency Trigger Algorithm
4. Alerting Police and Health care facilities:
5. Smart Watch Feature
6. User Interface Development
7. Database Management
8. Testing and Validation
9. Documentation and Training

Emergency Detection using sensors

- Keyword in audio using microphone
- False shutdown
- Smart watch exclusive feature – Mixture of heartrate, location & Accelerometer sensor
- Emergency trigger button

NOTE – All the features can be turned on/off by the user

What after emergency is detected

- Live location + SOS message to emergency contacts.
- 30s audio + video sent to police department.
- Map showing ETA of help arriving.

What makes us unique?

- Providing **safety while travelling**
- Safety while using **public transport.**
- Disability Friendly.
- False shutdown.
- App supported on Wearables.
- Community to share stories and learn workshops.
- Aadhar & PAN Verification.
- Safety Map.
- Education (Self defense, Disability guide)
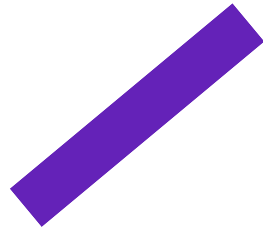
Schedule

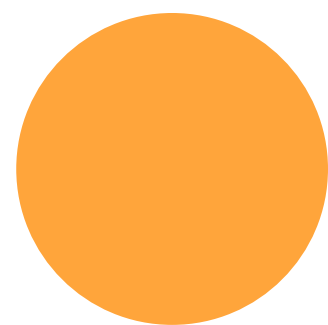| Milestone	Estimated Time
Gathering data	2
Plnning the important features to be implemented	2
Developing UI of the app	5
Implementing the features of the app	7
Testing the model	5
Making changes after receiving feedback	2
Fixing bugs	3
Finalizing the Project	1
Launching and Releasing	2
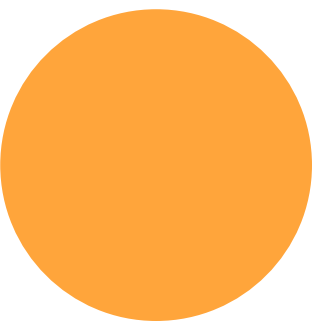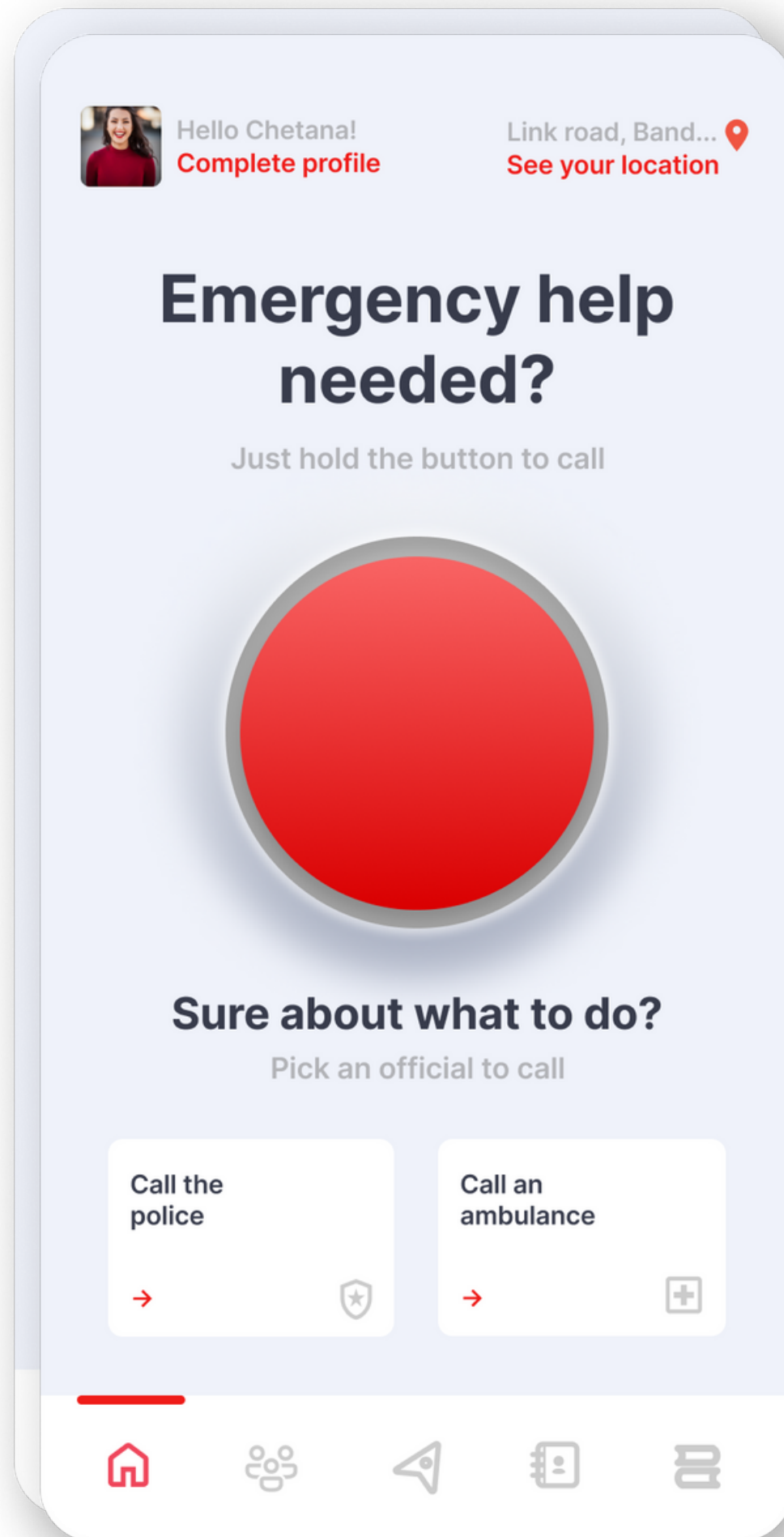
App Design
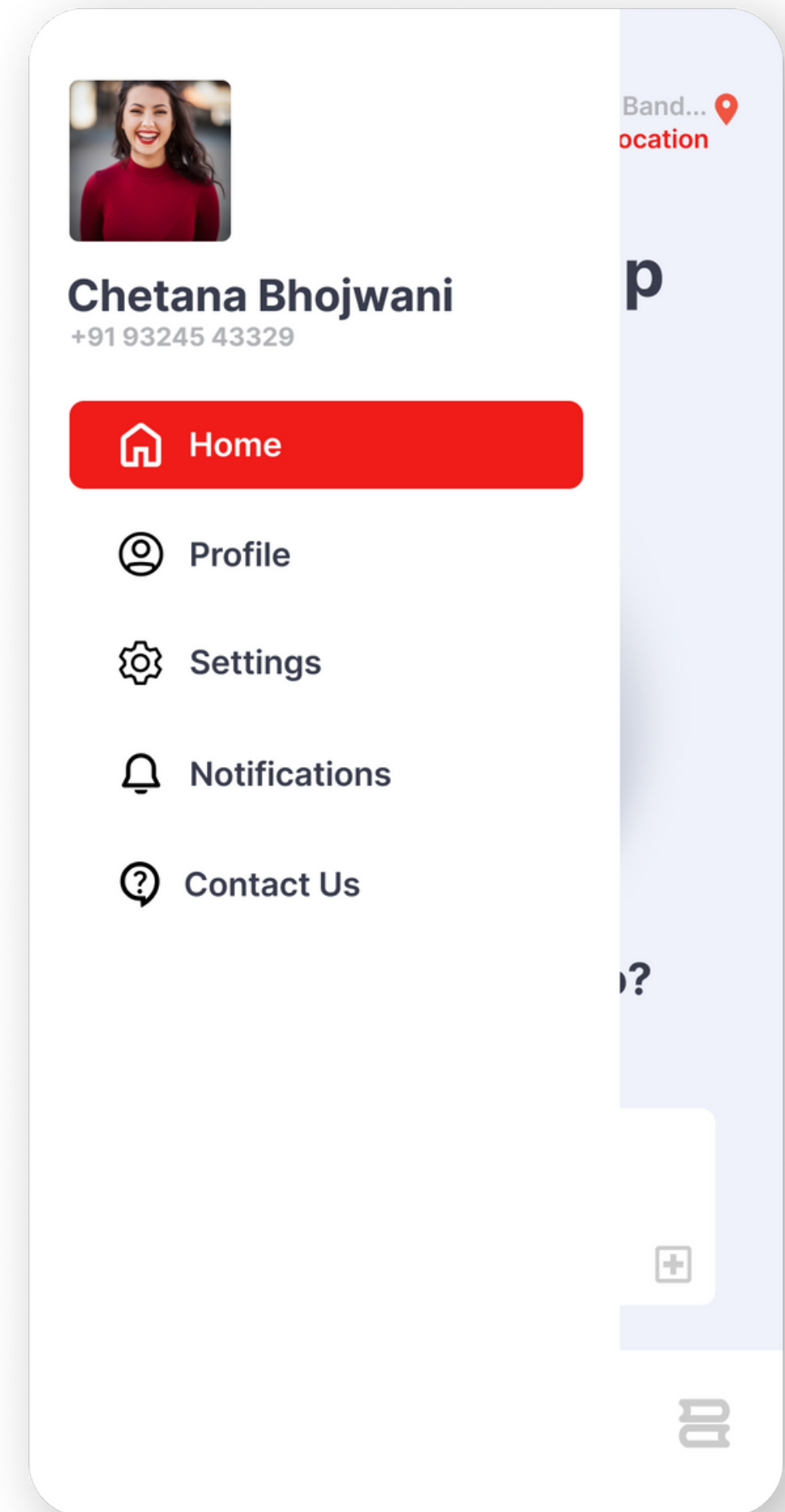
Resources

1. Programming Languages and Tools
2. App Development Platforms and Frameworks
3. Design Tools
4. APIs and Backend Development
5. User Experience (UX) and User Interface (UI) Design
6. Safety and Security
7. Database Management
8. Legal and Ethical Considerations
9. Funding and Grants

Budget

Budget Head	Detailed Breakdown
Hardware and Cloud Services	Cloud Services (e.g., AWS, Azure, Google Cloud): 1,00,000 per month
Software and Development Tools	Web Development Tools: 20,000
Human Resources	Data Scientists/Engineers: 1,50,000 Domain Experts: 1,00,000 DevOps Experts: 1,00,000
Legal and Compliance	Legal Consultation: 50,000 Data Licensing: 1,00,000
Hosting Charges	Play store - 2100 App store - 8200 per annum
Miscellaneous	Project Management Tools and Software Licenses: 20,000 Documentation and Reporting Tools: 10,000 Contingency: 50,000 for unexpected expenses
TOTAL	**16 Lakh - 20 Lakh Rupees (approx)**

Thank You