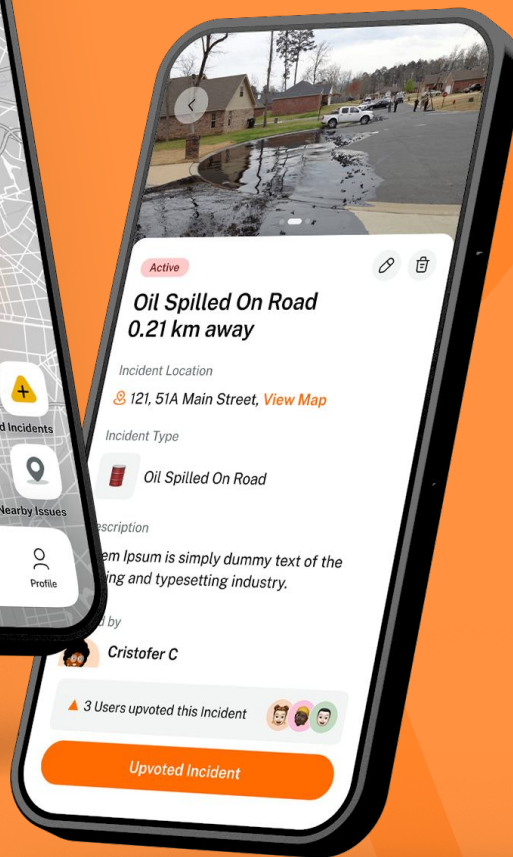
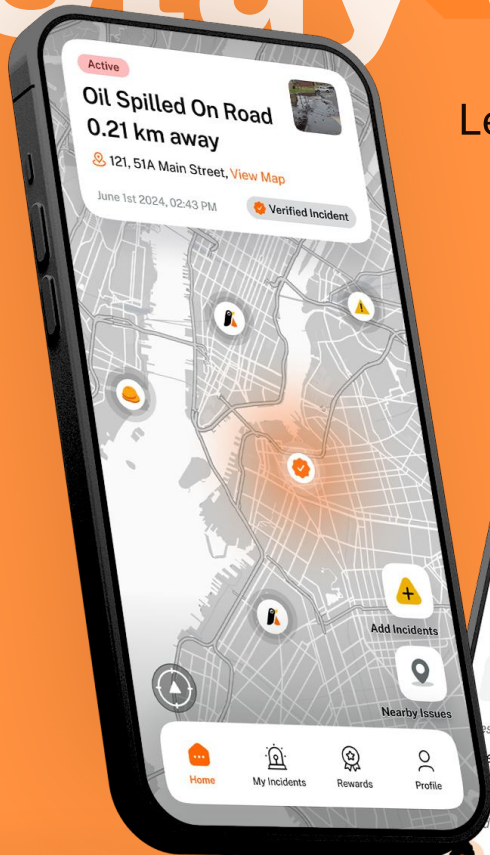




Stay Alert, Stay Safe

Let's share safety with AlertMe!





www.alertme.tech

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Real-Time Reporting & Resolution of Construction Hazards

Fixing

Your Reported Issue is
under fixing



Product Overview





The problem

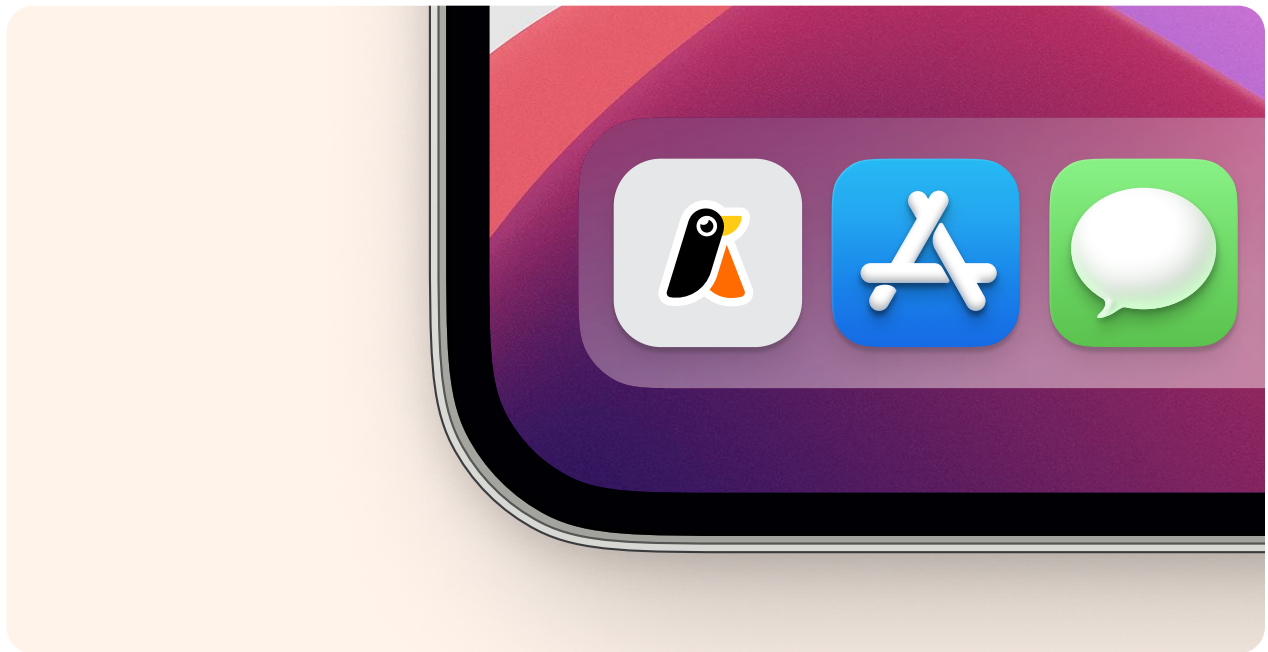
Construction sites can be unsafe due to their constantly changing nature. Pedestrians and drivers often encounter unprotected areas, debris, closed-off sections, and active work zones. These hazards pose significant risks, but the public frequently doesn't know how to report them. Although the site supervisor is the most appropriate person to address these concerns, contacting them is often difficult, leading to unresolved issues and increased danger for everyone nearby



Real-Life Example

A user noticed debris on the sidewalk near a construction site and reported it. Other users liked the report. The site supervisor reviewed and approved it, making the issue visible to all users in the area until resolved.

- User reports and community engagement.
- Supervisor approval and issue visibility.



The Solution

Develop a digital platform where civilians can report construction site hazards, rate reports from others, and receive notifications about hazards. Site workers can review and approve reports, notify users and other construction employees, and address the issues. This app will make construction sites safer for everyone.

AlertMe is tailored for

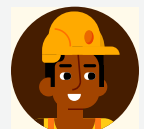
Civilians

Civilians report hazards with GPS, photos, and descriptions. They rate reports, get notifications, and earn rewards for active participation



Construction Workers

Supervisors and workers can define zones, post tasks, and manage reports. They review, approve, and resolve hazards, keeping users informed





AlertMe Features

Civilians

Report Incidents

Bypassers, and vehicle riders can report safety incident



Review Incidents

Users can review reported incidents and upvote them reports



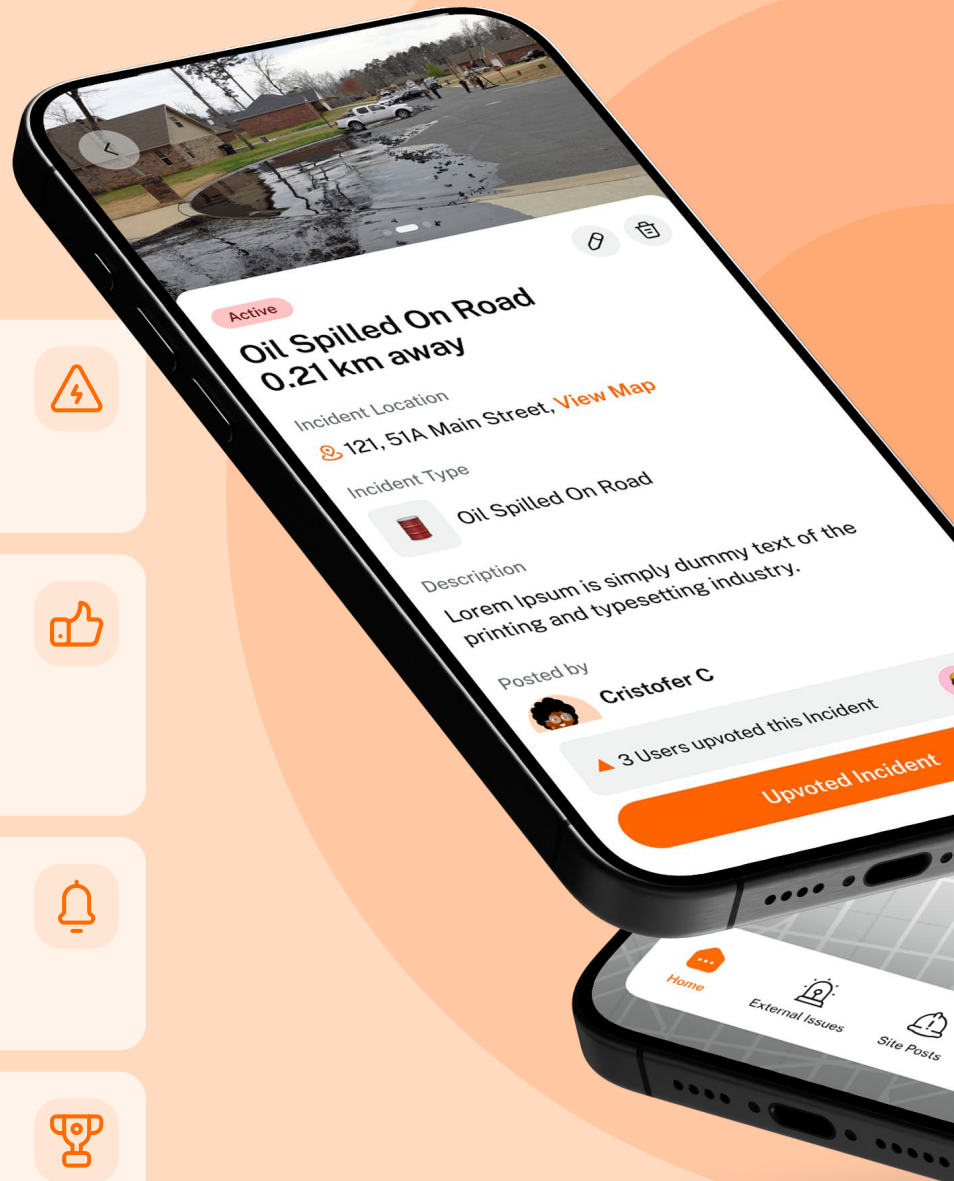
Real-time Notifications

Users receive notifications about approved hazard reports.



Rewards & Gamification

Users can earn bandages and experience points by submitting genuine reports.





Construction Workers



Geo-Fencing

Workers can define and mark construction site zones on a map



Approve Incident

Workers review and approve/decline Incidents reports





On-site Incident Control

Construction site worker can also report and control on-site hazard for other workers.





Competitors

Features	 AlertMe	 Waze	 Google Maps	 Safety View
Geofencing	✓	✗	✗	✗
Report & Upvote Incidents	✓	✓	✓	✓
Real-Time Incident Alerts	✓	✓	✓	✗
Rewards and Gamification	✓	✓	✗	✗
Action on Reports	✓	✗	✗	✗



Google maps

Google maps are the widely used navigation apps that support multi-functionalities and allows its users to reach their destinations by giving real-time traffic data.

<https://www.google.ca/maps>



Waze

Google acquired Waze in 2013 but maintained it as a separate app with its own developers. Waze is a road navigation app that allows users to report incidents and socially connect with other drivers.

<https://www.waze.com/en-GB/live-map/>



Safety View by INRIX

Safety View" is a collaboration with GM Future Roads. This application helps city transportation planners analyze data on crash locations, factors, speeding areas, etc.

<https://inrix.com/products/safety-view-by-gm-future-roads-and-inrix/>

Get notified on
verified reports
near you



Road Collapse at
131 Main Street



Project Timelines





Design Timeline

Week 1-3

Research & Ideation



Week 1

- Identify project goals and objectives
- Conduct market research and gather relevant data

Week 2

- Analyze direct and indirect competitors
- Create user personas based on target audience
- Map out the user flow for the app or website

Week 3

- Conduct user interviews to gather insights
- Create initial wireframes based on research and user feedback

Week 4-6

Initial Designing & Testing

Week 4

- Refine wireframes based on feedback
- Conduct usability tests to identify any issues

Week 5

- Modify wireframes based on usability test results
- Conduct another round of usability tests if necessary



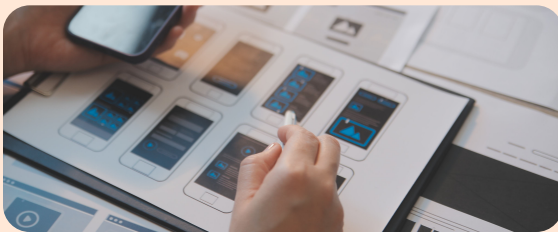
Week 6

- Design the logo and branding elements
- Develop a UI Kit with consistent design elements



Week 7-10

Prototyping & User Testing



Week 7

- Create a high-fidelity prototype incorporating branding and UI Kit

Week 8

- Conduct user testing on the prototype
- Make necessary modifications based on feedback



Week 9

- Integrate sounds and animations into the prototype
- Finalize the interactive prototype

Week 10

- Conduct further testing and make final adjustments

Week 11-13

Presentation & Launch

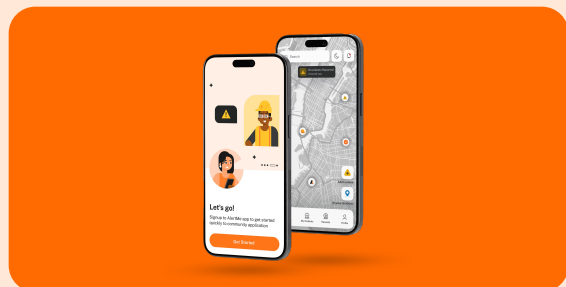
Week 11

- Write a detailed project proposal document
- Create initial presentation slides



Week 12

- Develop marketing assets (e.g., social media graphics, promo videos)
- Finalize the proposal document and presentation slides



Week 13

- Launch the website or app
- Present the final product demo to stakeholders



Development Timeline

Week 1-3

Planning and Research

Week 1

- Brainstorm and list potential project ideas.
- Conduct research to validate and refine ideas.



Week 2

- Choose the best idea and outline the project scope.
- Identify key features and functionalities for the project.

Week 3

- Select the technology stack for the project.

Week 4-6

Design and Architecture

Week 4

- Design the data model and database schema.

Week 5

- Create a detailed development timeline.
- Set up a Github repository for version control.
- Establish development workflows and tools.





Week 6-10 Development

Week 6

- Initialize the backend framework and environment.
- Initialize the frontend framework and environment.

Week 7

- Develop the basic UI components.



Week 8

- Create the backend APIs for data handling.

Week 9

- Integrate all features into the app.

Week 11-13 Testing and Presentation

Week 10

- Present the alpha version of the app for feedback.

Week 11

- Conduct thorough testing to identify bugs.
- Refine and improve the frontend UI/UX.

Week 12

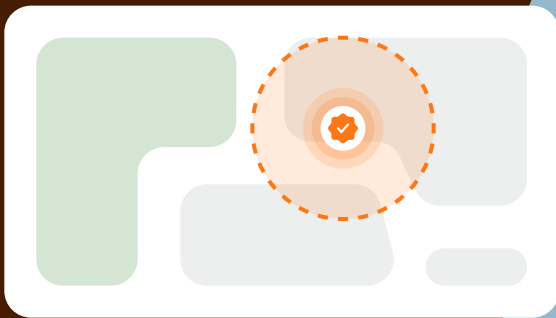
- Address and fix identified bugs.
- Present the beta version of the app for review.

Week 13

- Perform final testing and bug fixes.
- Deliver the final presentation of the completed app.



As a site supervisor,
I want to mark the
construction hazards
on a detailed map so
that everyone
can see it



Post On Map



UX Design





Background Research

Construction sites are bustling with tasks and processes, creating many potential hazards for workers and nearby people. Recognizing and managing these risks is a moral duty to protect those building our world.



Common reporting categories



Hazards



Heavy
Machinery



Construction



Oil



Ice on Road



Road Block



Incidents



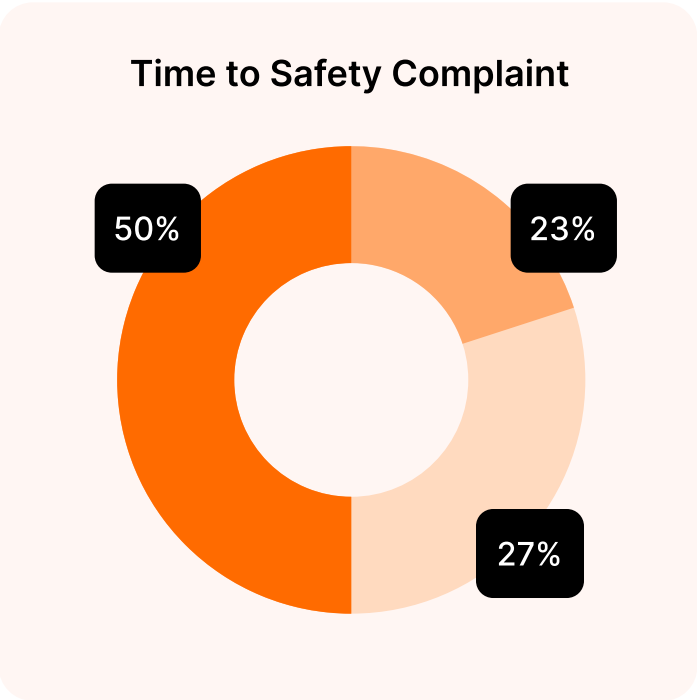
User interviews



Reporting Hazards or Safety Concerns

We asked, "Do you use any apps or platforms to report hazards or safety concerns?" The majority, 80%, responded, "No, I don't use any specific apps or platforms."

- Yes please specify
- No, I don't use



Response Time to Safety Complaint

We asked, "How long does it take for your team to address and respond to a safety complaint through the app?" 50% responded with "Not applicable."

- Not applicable
- 1-2 Hours
- 2-4 Hours



Personas

Martin Westervelt

Construction Site Supervisor,
Vancouver, CA



Martin Westervelt is a construction site **supervisor** with 21+ years of experience. He excels in detail, leadership, and ensures safety rules are followed while managing daily operations.

Pain Point

- Too many false hazard reports waste time and reduce system reliability
- Limited assessment tools delay hazard evaluation
- Ineffective alerts distribution challenges ensuring all relevant personnel receive updates
- Time management issues make it hard to balance hazard verification with other on-site duties
- Trouble tracking on reported hazards

Needs:

- Reliable system for real-time communication
- Proper location and visuals of hazards

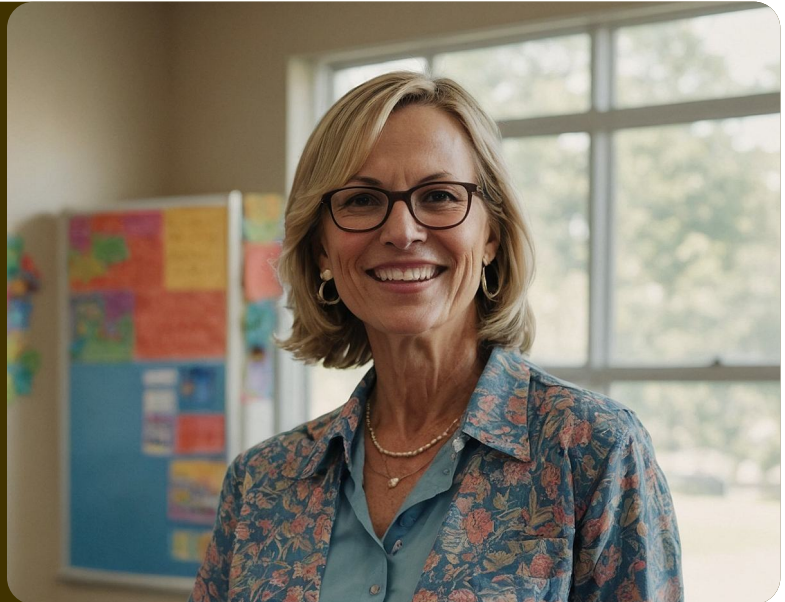
Needs:

- Reliable system for real-time communication
- Proper location and visuals of hazards



Emily Johnson

Schoolteacher,
Vancouver, CA



Emily Johnson, a **schoolteacher** in an urban area, is worried about the safety of nearby construction sites. She stays informed and values community well-being, using her smartphone for news and social media.

Pain Point

- Regular disturbances and potential hazards from nearby construction sites.
- Difficulty in getting timely and accurate information about activities related to construction sites.
- No reliable platform to raise concerns and receive updates about local construction-related issues.
- Disconnected from the construction site supervisors.

Needs:

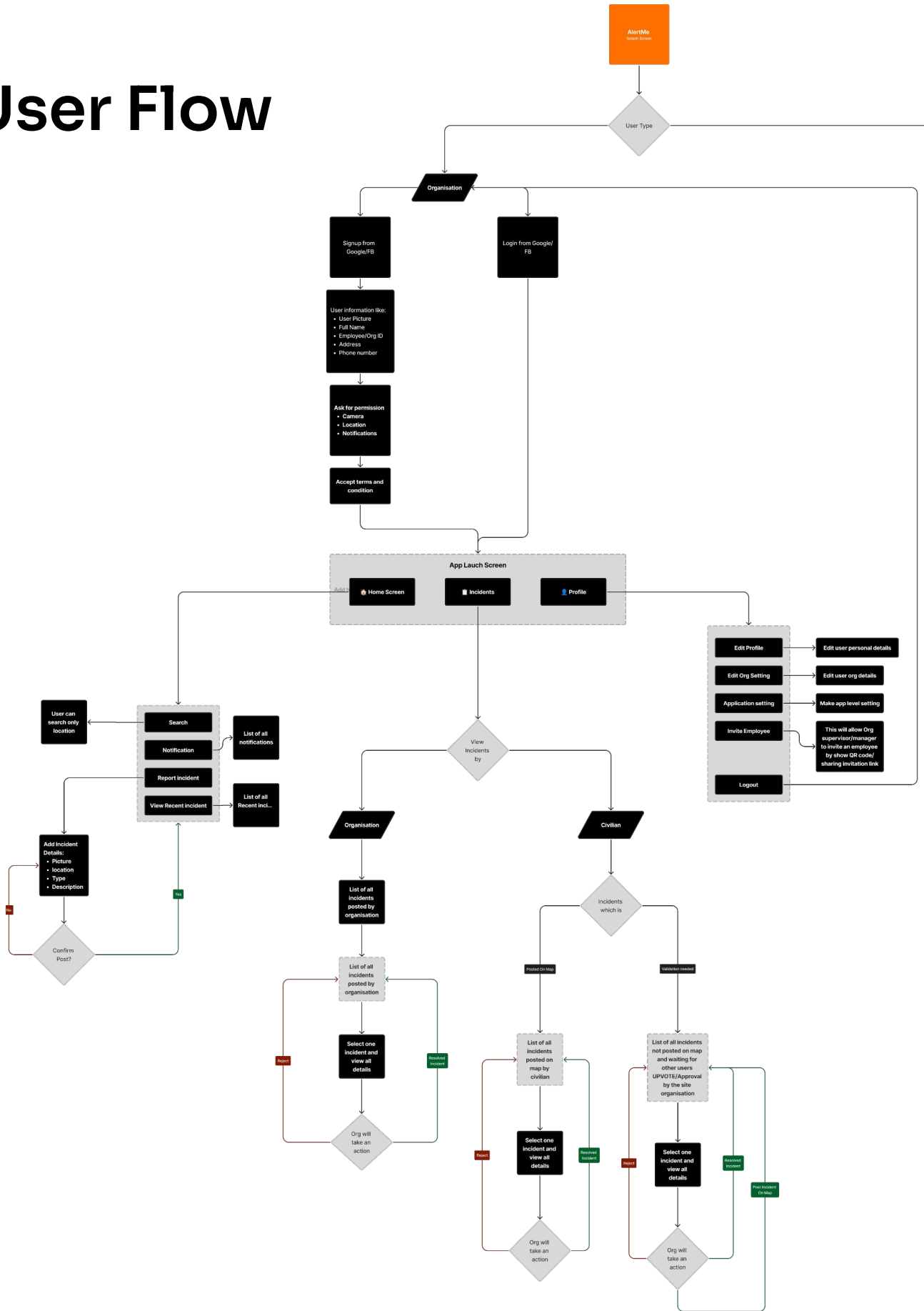
- Real-time hazard alerts for construction sites.
- Easy reporting of hazards and incidents.

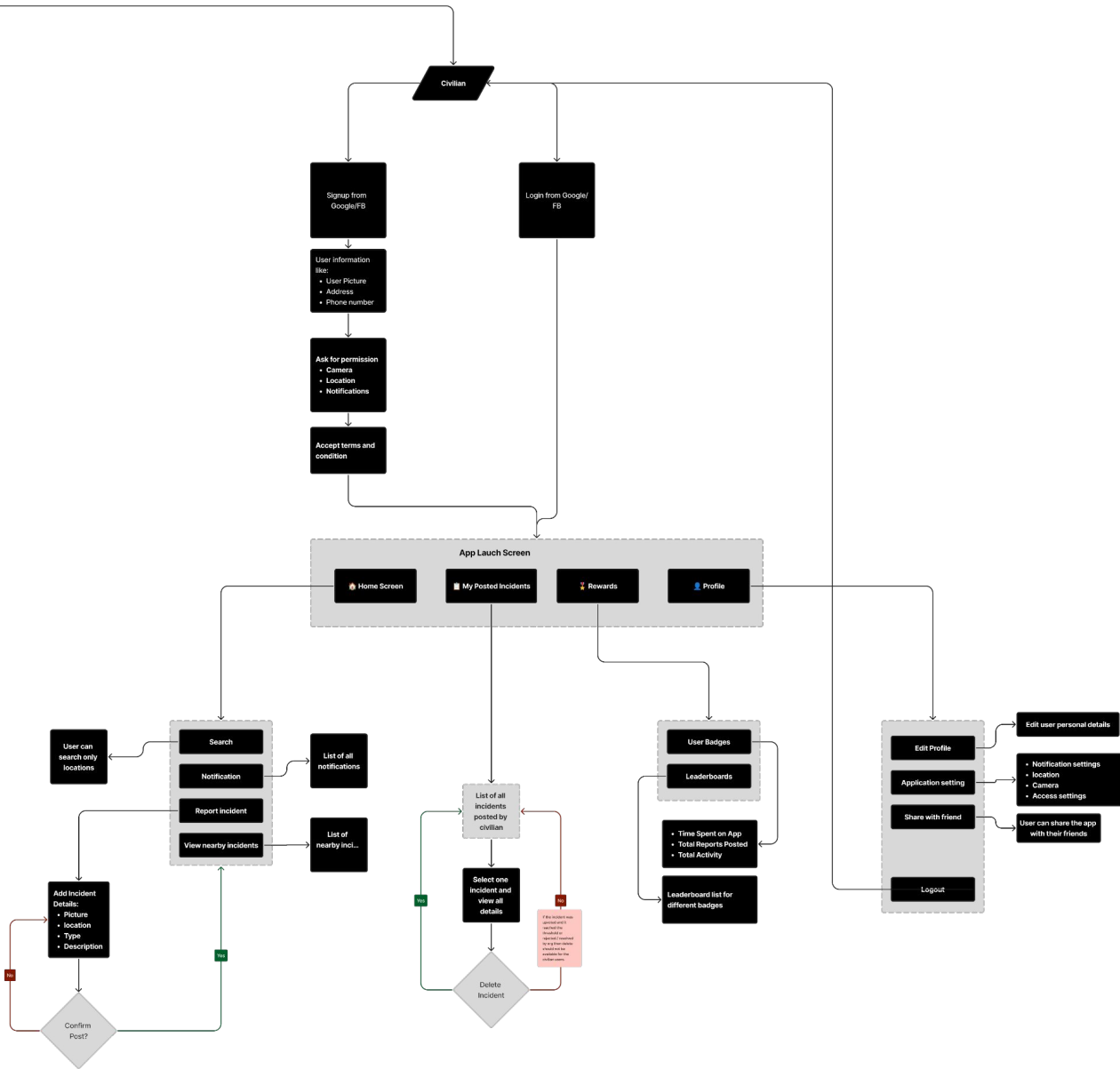
Needs:

- To stay informed about potential hazards in real-time.
- To efficiently report and manage incidents related to construction site safety.



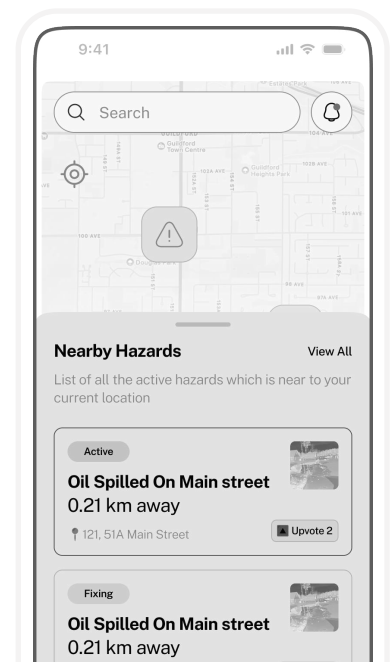
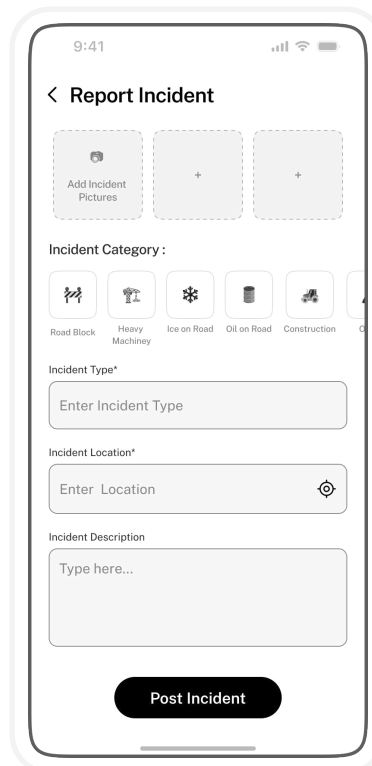
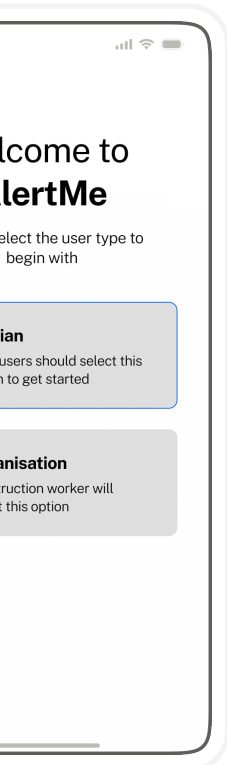
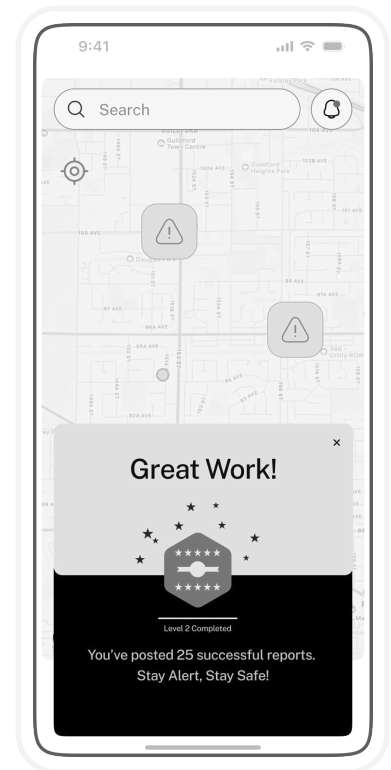
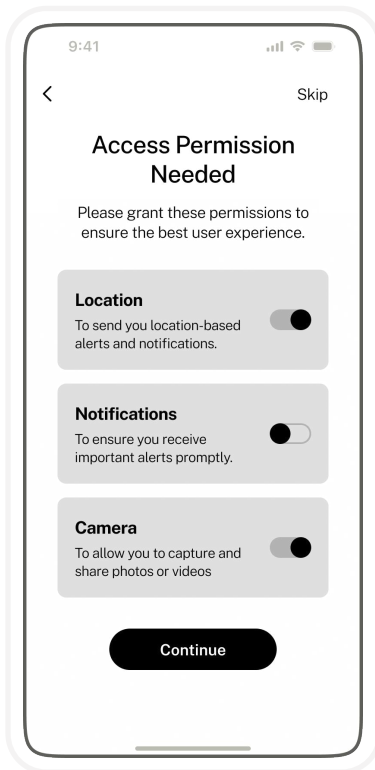
User Flow

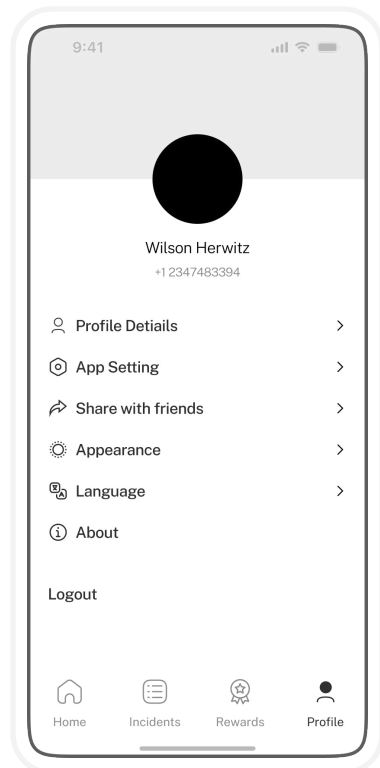
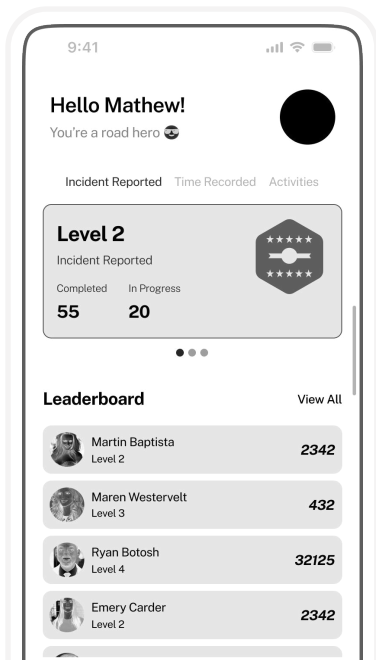
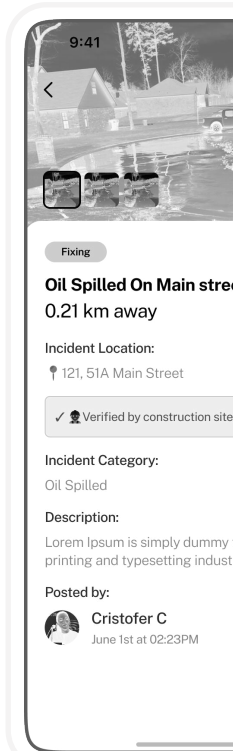
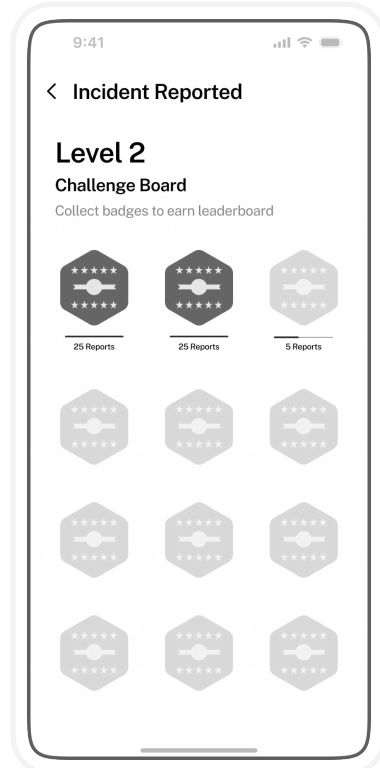
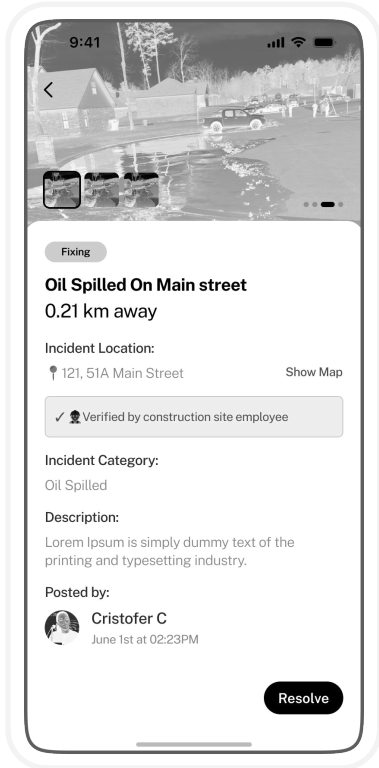






Wireframes





Get awesome
rewards for sharing
real incident reports!



Woohoooo!
I got rewarded!

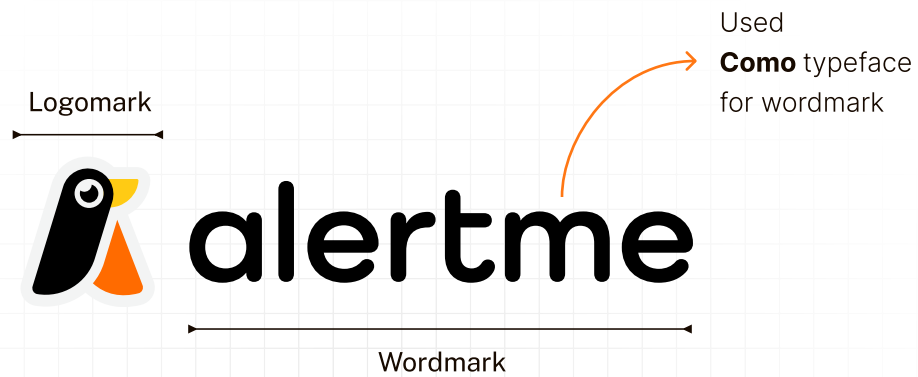


Branding





Brand Logo



Logo Concept

Our "AlertMe" logo creatively combines a robin bird, a GPS icon, and the app's initials. The robin symbolizes alertness, representing our focus on location tracking and hazard reporting.

Brand Adjectives:

- Trustworthy
- Alert
- Collaborative





Typography

AlertMe typography components include the heading component, which gives you the ability to create headings for your app with different sizes and semantics from h1 to h6, and the text component, which supports paragraphs and other formatting options.

4xl **Hi there!**

3xl **Hi there!**

2xl **Hi there!**

xl **Hi there!**

lg **Hi there!**

md **Hi there!**

sm **Hi there!**

Public Sans

Modern, Clean & Versatile

Variables Used:

Light

Regular

Semibold

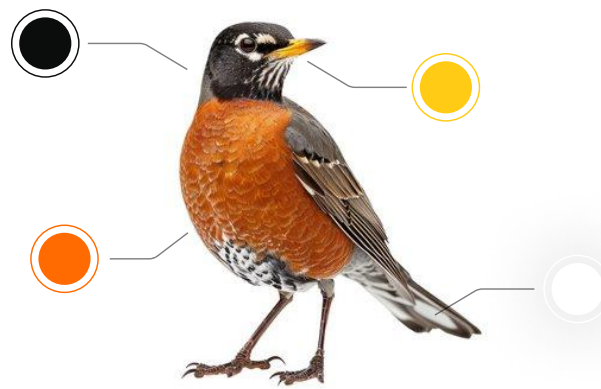
Bold



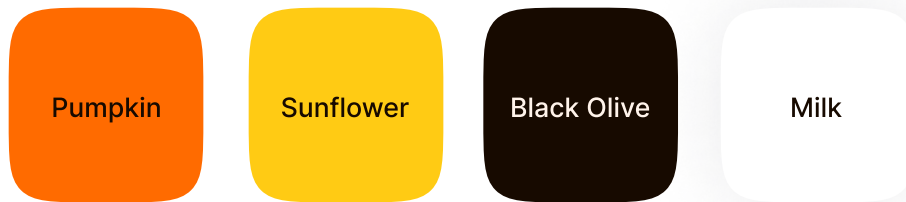


Color palette

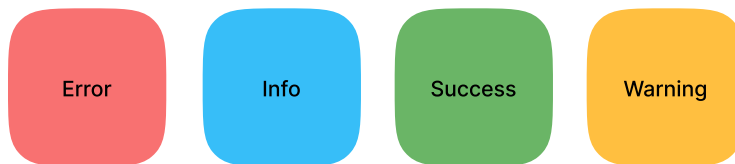
We used colors inspired by the American robin bird: Pumpkin Orange for visibility and alertness, and Sunflower Yellow for warmth and energy. These colors highlight our app's focus on safety and proactive communication, creating a cohesive and impactful brand identity.



Primary Colours



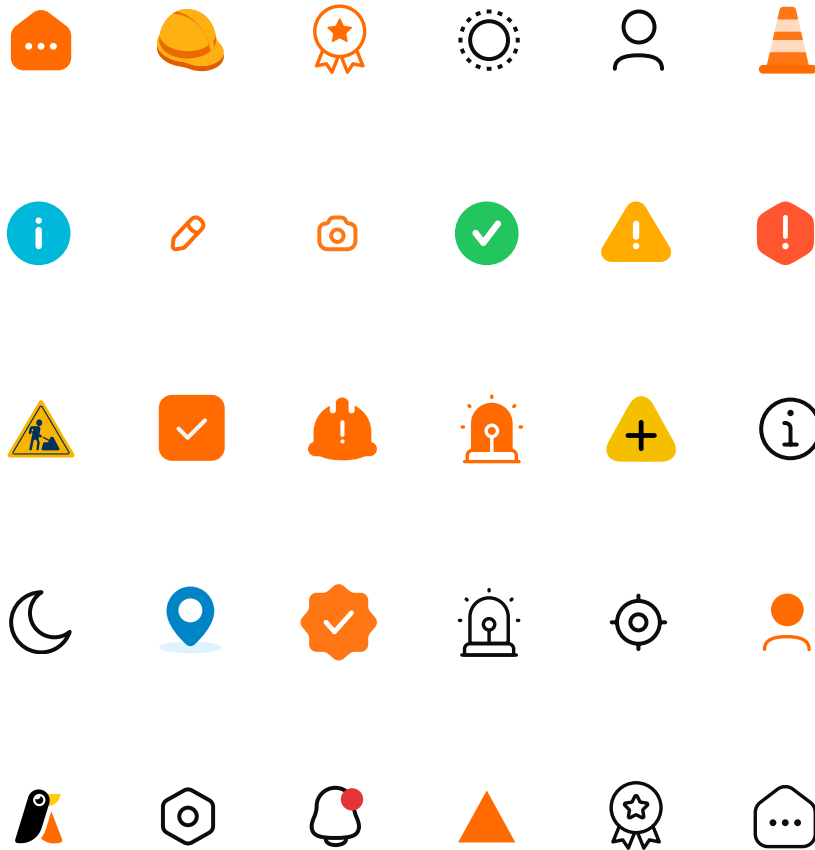
Secondary Colours






Iconography

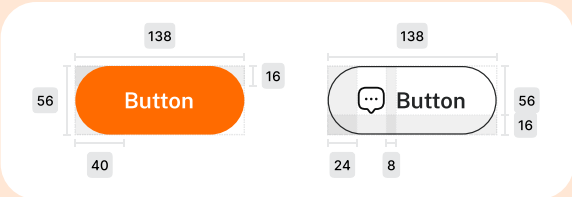
Use our versatile icons repository for easy navigation and clear communication. Customize and use them seamlessly across different platforms.

















UI Components

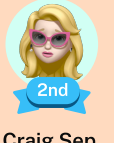
 **I'm Civilian Posts**
Community civilians can choose this option to proceed.

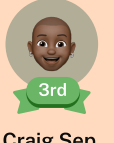


	Ann Dokidis Level 16	18948
	Dulce Carder Level 15	15473
	Craig Septimus Level 14	14837
	Ann Dokidis Level 14	14236
	Dulce Carder Level 13	13343
	Craig Septimus Level 12	13001
	Ann Dokidis Level 12	11048


Home  My Incidents  Rewards  Profile 



Craig Sep.
Level 14


Craig Sep.
Level 13


Craig Sep.
Level 12

Great Works!


Level 3

Congratulation 
Nikhil on your success

You've posted 25 successful reports.


[Go to Rewards](#)



< **Heading** [View All](#)

[All](#) [Active](#) [Pending](#) [Resolved](#)

Active

Oil Spilled On Road
0.21 km away

 121, 51A Main Street, [View Map](#)

 2 Users upvoted the Incident 

June 1st 2024, 02:43 PM [Upvoted](#)



Active



Oil Spilled On Road 0.21 km away

Incident Location

📍 121, 51A Main Street, [View Map](#)

Incident Type

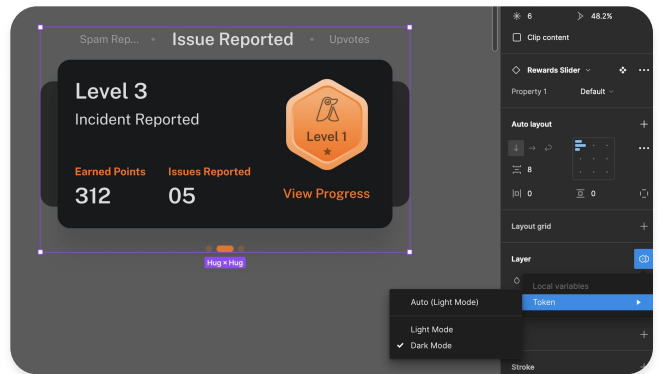


Oil Spilled On Road

Description

Be careful there is a oil spilled just next to the construction site zone.

Components are built with Figma local variables for easy implementation and consistent design across the team.

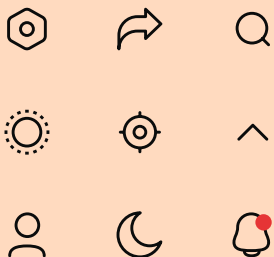


Level 3 Incident Reported



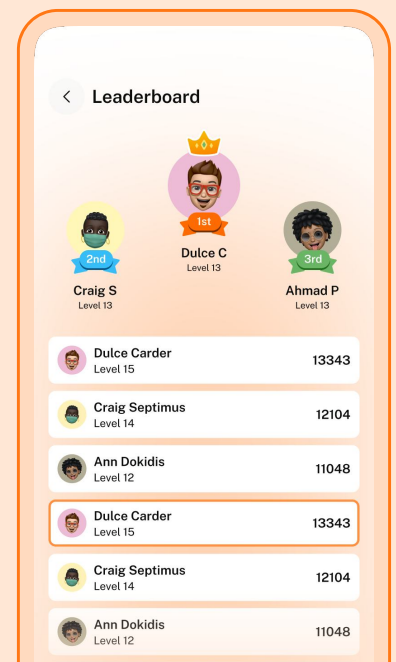
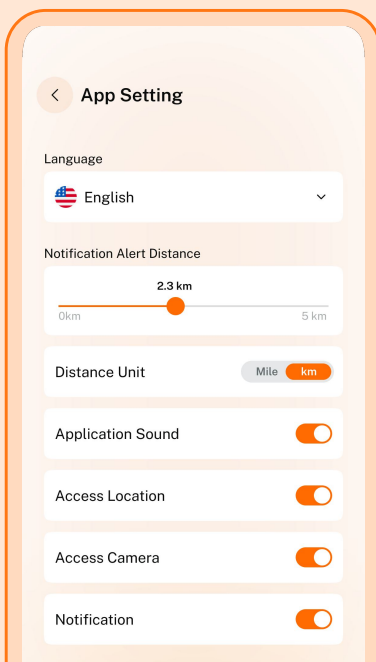
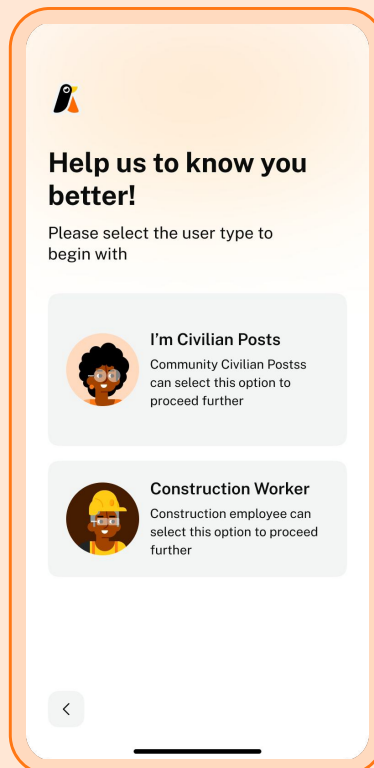
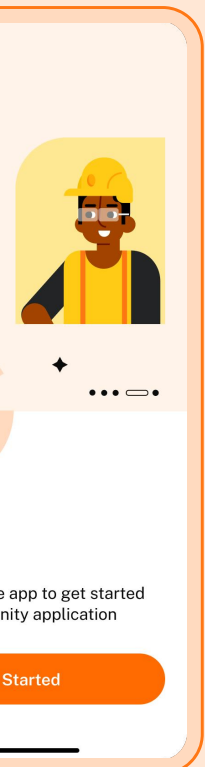
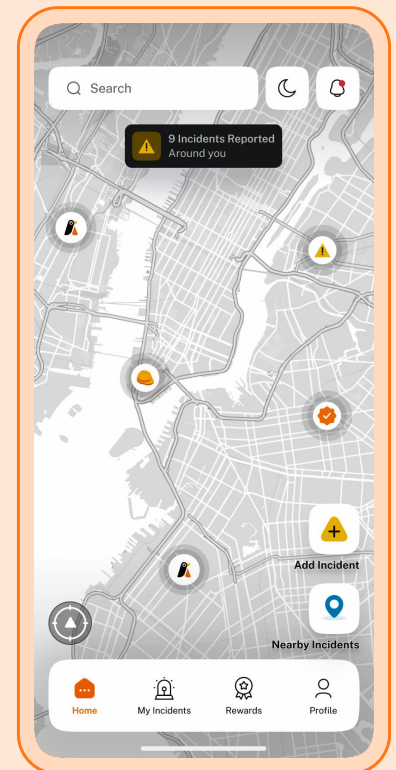
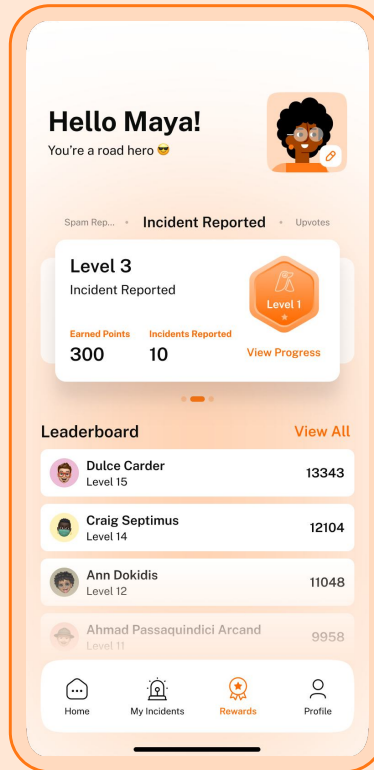
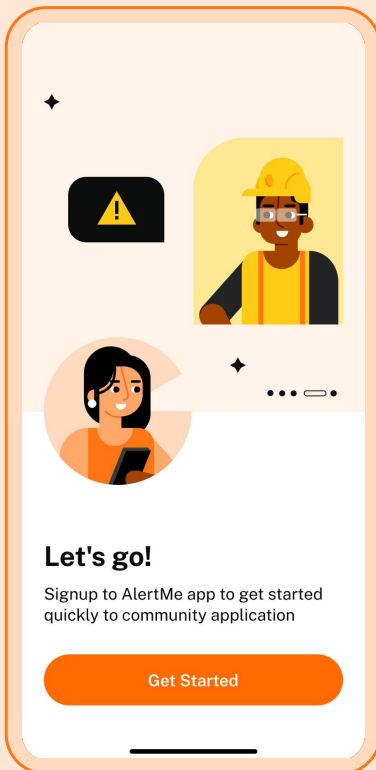
Points Reported
300 10

[View Progress](#)





Mockups





Issues Reported Awards

Achieved Level 3

Earned Points	Earned Badges	Total Reported
300	3/50	10

Challenge Board
Awards for completing challenges that celebrate special moment in time.

Level 1 Achieved	Level 2 Achieved	Level 3 Achieved
Level 4 45/100 Points	Level 5 0/100 Points	Level 6 0/100 Points
Level 7 0/100 Points	Level 8 0/100 Points	Level 9 0/100 Points

Oil Spilled On Road
0.21 km away

121, 51A Main Street, [View Map](#)

June 1st 2024, 02:43 PM **Verified Incident**

Home My Incidents Rewards Profile

Oil Spilled On Road
0.21 km away

Incident Location
121, 51A Main Street, [View Map](#)

Incident Type
Oil Spilled On Road

Notify User Within Range
2.3 Km

Description
Lorem Ipsum is simply dummy text of the

▲ 1 Users upvoted this Issue

Reject **Approve**

Search

Exit

Home My Incidents

Add Incident

Add Incidents Pictures*

Incident Category:

Hazard Heavy Machinery Construction Oil Ice on Ro

Notify User Within Range
0km 2.3 km 5 km

Incident Type*
Heavy Debris

Location*
121, 51A Main Street

Post Incident

Search

9 Incidents Reported Around you

Nearby Active Issues [View All](#)

Oil Spilled On Road
0.21 km away
121, 51A Main Street
June 1st 2024, 02:43 PM **▲ Upvoted • 3**

Oil Spilled On Road
0.21 km away
121, 51A Main Street
June 1st 2024, 02:43 PM **▲ Upvoted • 3**

Oil Spilled On Road
0.21 km away
121, 51A Main Street
June 1st 2024, 02:43 PM **▲ Upvoted • 3**

Home My Incidents Rewards Profile

My Posted Issues

All Active Pending Resolved

Oil Spilled On Road
0.21 km away
121, 51A Main Street
June 1st 2024, 02:43 PM **▲ Upvote • 1**

Oil Spilled On Road
0.21 km away
121, 51A Main Street
June 1st 2024, 02:43 PM **▲ Upvoted • 3**

Oil Spilled On Road
0.21 km away
121, 51A Main Street
June 1st 2024, 02:43 PM **▲ Upvoted • 3**

Home My Incidents Rewards Profile

Oil Spilled On Road
0.21 km away

Incident Location
121, 51A Main Street, [View Map](#)


Incident Type
Oil Spilled On Road

Approve

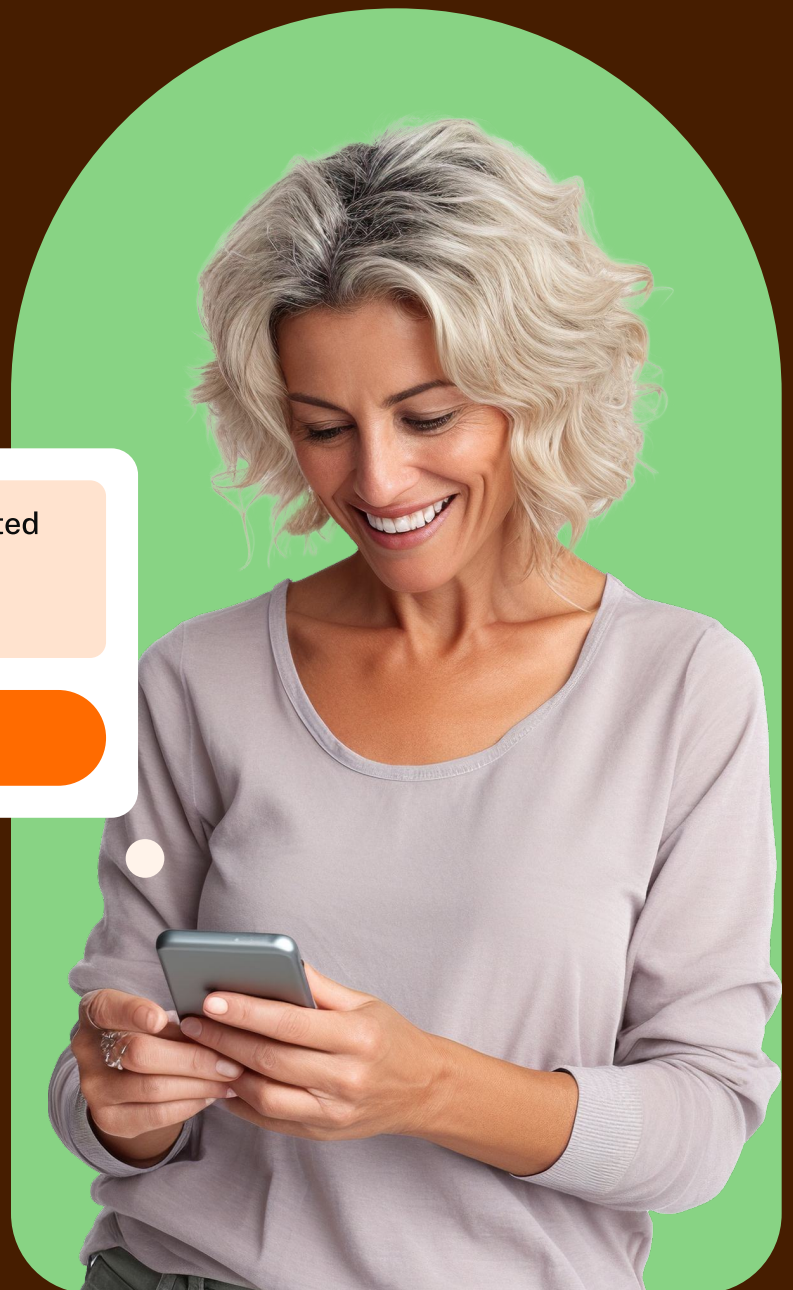
You are approving incident by civilian a incident inspected want to post this on other

Users can upvote other users' valid reports and help the AlertMe community to grow

▲ 4 Users upvoted



Upvote

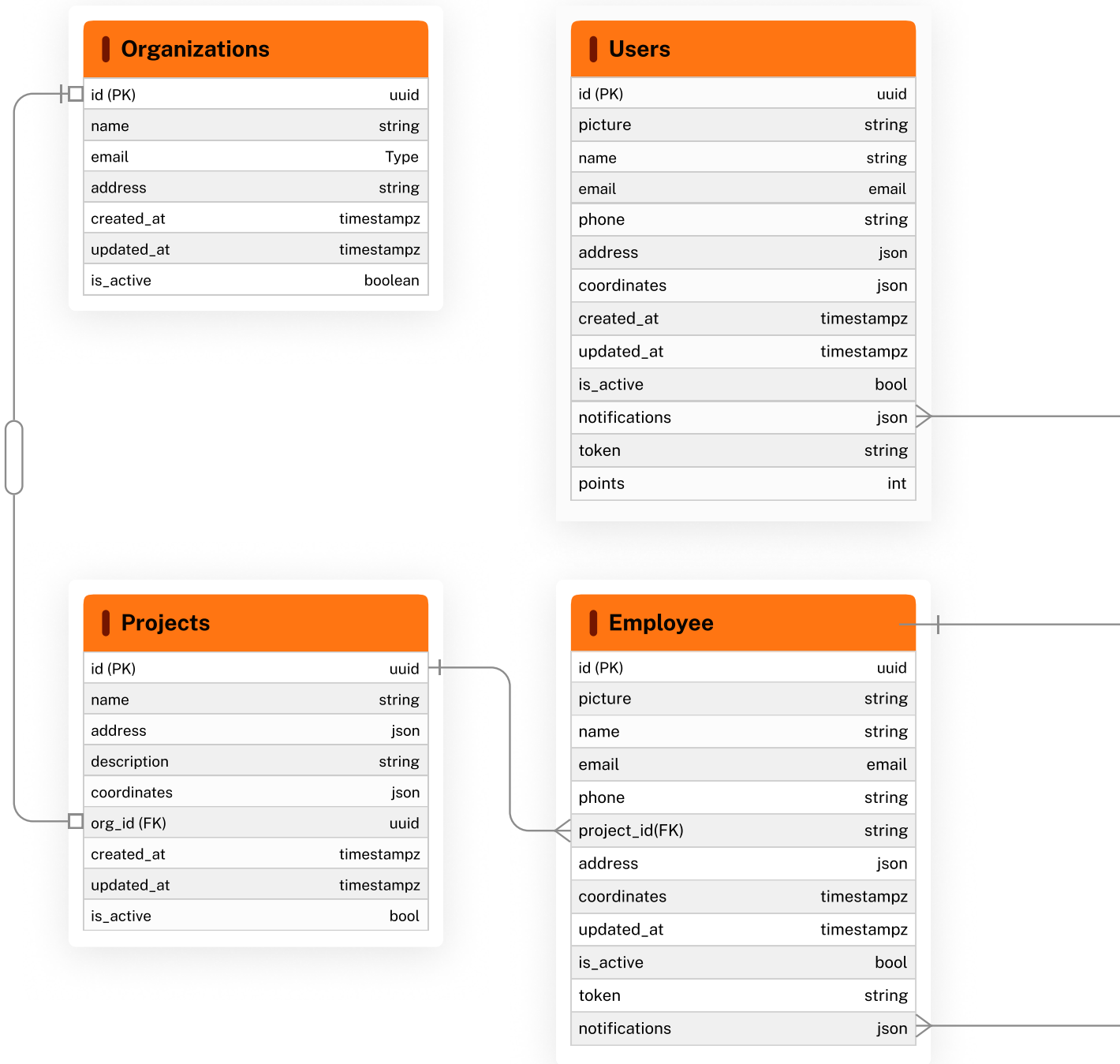


Technologies





Data Model





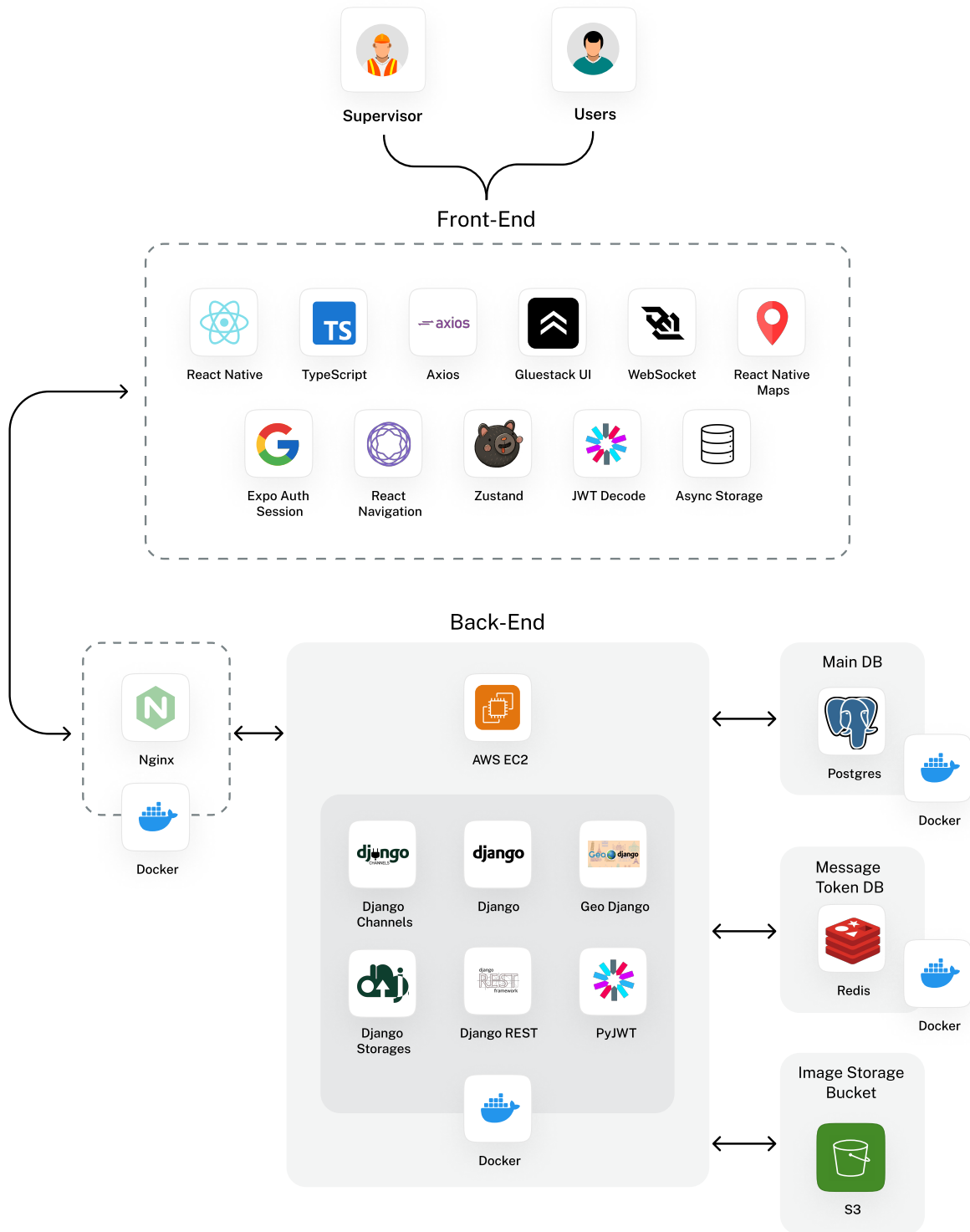
Notifications List	
id (PK)	uuid
user_id (FK)	uuid
incident_id (FK) †	uuid
subject	string
type_id	uuid
created_at	timestampz
updated_at	timestampz

Incident_catagories	
id (PK)	uuid
name	string
icon	string
description	string

Incidents	
id (PK)	uuid
user_id (FK)	uuid
Images	json
indicent_category_id (FK)	uuid
subject	string
description	string
coordinates	json
created_at	timestampz
updated_at	timestampz
votes	int
is_inactive_count	int
status	string
is_accepted	bool
is_internal	bool
is_active	bool
user_type	string









System Architecture










Tech Stack

Front-End





     

React Native Expo Gluestack UI React Native Maps Zustand TypeScript

Back-End

React Native Django REST Geo Django Nginx Postgres




Redis Docker AWS EC2 AWS S3

Design

Figma Adobe Suite

Management

Trello Github Slack

Future Features

Smart-Device Integration

Bypassers, and vehicle riders can report safety incident



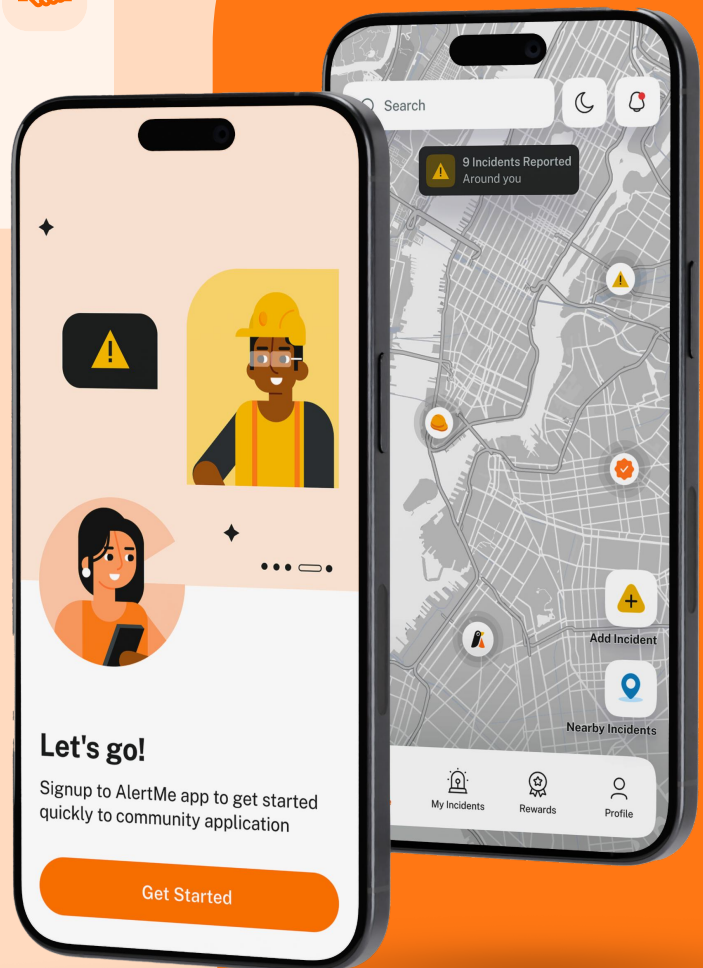
AI-Powered Analytics

Use AI to identify patterns in similar reports, helping users avoid high-risk areas.



3rd Party Collaborations

Partner with the city to promote AlertMe at construction sites and collaborate with ride-sharing services.



Resources





Meet the team

Our team excels in full-stack development, Product designing, research, branding, graphic design, , and customer service. This combination of skills allows us to create innovative, user-focused products efficiently.



Sandeep Guggilla

Project Manager / Full Stack Developer

Experienced DevOps Engineer with expertise in CI/CD pipelines and DevOps toolchains, augmented skills through Langara's WMDD course, now proficient in full-stack development.

 [sandeep-guggilla](#)



Bryan Caldeira

Lead Dev / Full Stack Developer

Full Stack Developer with expertise in JavaScript, Python, Django, and the MERN stack, as well as proficiency in SQL. I can bring your visionary ideas to life.

 [bryan-caldeira](#)



Nikhil Kanda

Lead Product Designer

Product designer adept at blending creativity and technical skills to deliver comprehensive solutions, eager to tackle diverse design challenges and bring innovative ideas to life.

 [nikhil-kanda](#)





Nandan Nishad

Full Stack Developer

Versatile developer, passionate about crafting seamless digital experiences and ensuring flawless functionality. I love coding, diving into sci-fi, solving puzzles, and relaxing with a good book.

 [nandan-nishad](#)



Simrandeep Kaur

Full Stack Developer

I create dynamic web apps with ReactJS, Redux, and Node.js, and am skilled in HTML, CSS, and JavaScript. I focus on high-quality user experiences and keeping up with industry trends.

 [simrandeepkaurd](#)



Karthik Rhaja

Full Stack Developer

Dynamic full stack developer and automation tester passionate about crafting seamless digital experiences and ensuring flawless functionality through cutting-edge automated testing.

 [karthik-santhi-sivakumar](#)





Palak Goyal

Product Designer

Product designer with a knack of blending natural elements into her designs, crafting user-friendly and innovative products.

 [palak-goyal](#)



Rushik Patel

Product Designer

A dedicated UI/UX designer with an engineering background committed to perfecting seamless user experiences in the tech industry.

 [rushikpatel20](#)



Rahul Kota

Product Designer

Product designer with an engineering background, skilled in user communication. I blend creativity, logic, and empathy to enhance engagement and deliver intuitive, user-centered designs.

 [rahul-rathan-kota](#)





Marketing Assets

Stay Alert, Stay Safe

AlertMe warns users of nearby construction and road hazards, and allowing them to report issues and workers to confirm alerts, enhancing city safety. Features include Geofencing, Incident Tracking, Real-Time Notifications, and Reward System

- Geofencing**
Alerts for nearby construction
- Real-Time Notifications**
Instant incident alerts
- Incident Tracking**
Logs reported hazards
- Reward System**
Rewards for reporting

snaweyer@lelam. Langara.

www.alertme.tech

TALENTS BEHIND ALERTME APP

 Sandeep Guggilla Full Stack Developer in sandeep-guggilla	 Nandan Nishad Full Stack Developer in nandan-nishad	 Bryan Caldeira Full Stack Developer in bryan-caldeira	 Nikhil Kanda Product Designer in nikhil-kanda	 Simrandeep Kaur Frontend Developer in simrandeepkaur
 Karthik Rhaja Frontend Developer in karthik-santhi-sivakumar	 Palak Goyal Product Designer in palak-goyal	 Rushik Patel Product Designer in rushikpatel20	 Rahul Kota Product Designer in Rahul-Rathan-kota	

Try AlertMe

Stay Alert, Stay Safe

www.alertme.tech

Try AlertMe

Stay Alert, Stay Safe

Try the AlertMe App today and help create a safer community.

Report Road Incidents & Getting Real-Time Updates Just got Easier and Rewarding!



References

Inner Left Cover:

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Problem & Real-Life Example:

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Design & Development Pictures:

<https://www.freepik.com/premium-photo>

Persona Pictures:

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Denis Bellette • Valentina Abanina





Thank you for considering AlertMe! We're excited about the opportunity to collaborate and are confident our solution will meet your needs. We look forward to discussing how AlertMe can benefit you.

Connect with us

www.alertme.tech

Scan to know more

