

Project Proposal

Project title: Crime Reporting and Safety

Background:

In today's world, where things change quickly, keeping people safe and responding quickly to situations are very important. But there are many problems that make it hard to report crimes and situations properly, which slows down responses and lowers safety. People don't report crimes as often as they should because they are afraid, don't know what to do, or can't find good ways to communicate. This has made it urgent to find a complete answer that connects people with police and emergency services. Taking these problems into account, the "Crime Reporting and Safety" app stands out as a light of hope because it tackles important public safety issues.

The idea for this project came from a shared worry for the health and safety of the community. The safety of its members is important for communities, and this app aims to boost trust by letting people report crimes quickly and anonymously. By looking into why people don't report crimes as often as they should, like fear of retaliation and communication gaps, the people who made this app have carefully created a solution that not only makes it easier to report crimes, but also creates an environment where people can actively help keep their communities safe.

With today's technology, using mobile apps to improve public safety is not just a nice-to-have, it's a must. Adding cutting edge technologies like real-time GPS tracking, anonymous reporting tools, and safe contact channels represents a big change in how communities deal with safety issues. The "Crime Reporting and Safety" app makes reporting easy for everyone, no matter how technical they are, by mixing user-friendly interfaces with strong backend systems.

This project is more than just a fix for a problem; it's a big change in how people think about and deal with safety problems. Because it encourages openness, conversation, and community involvement, the app makes neighborhoods safer, emergency responses faster, and, most importantly, it brings people together.

The goal of the "Crime Reporting and Safety" app is to get people to report crimes, speed up responses, and eventually lower crime. It does this by encouraging people, law enforcement, emergency medical services, and community groups to work together. As this new idea comes together, it marks the beginning of a time when safety is not a luxury but a basic right, available to everyone thanks to technology and strong community bonds.

Problem Domain and Root Causes:

Problem Domain:

The "Crime Reporting and Safety" app's problem domain is all about fixing problems related to public safety and making it easier to report crimes and emergencies and get help when they happen.

The most important problems in this area are:

- **Underreporting of Crimes and Emergencies:** A lot of crimes and emergencies are not reported because people are afraid, don't know how to tell them, or don't know what to do.
- **Response Times:** When police and emergency services don't have real-time details about an incident, it can slow down their response times.
- **Lack of anonymous reporting:** People may be afraid of getting in trouble if they report crimes, which makes the community less safe.
- **Communication Problems:** There may not be enough ways for citizens, law officers, and emergency services to talk to each other.
- **Public Safety Information May Not Be Easy to Find:** People may not have easy access to important safety information and tips that are meant to keep them and their communities safe.

Root Causes:

To solve these problems successfully, it is important to know what makes them happen. There are several underlying reasons for these problems, such as:

- **Lack of Knowledge:** Many people may not know how and where to report crimes and situations, which can cause fewer people to do so.
- **Fear of revenge:** Victims or witnesses may be afraid to report crimes out of fear of revenge, which makes it harder for them to do so.
- **Not Enough Ways to Report:** If there aren't enough ways to report, or if the ways to report are hard to understand, people may not report crimes and situations right away.
- **Manual Reporting:** Traditional ways of reporting require a lot of time-consuming phone calls or visits in person, which may not give accurate location data.
- **Communication Gaps:** Law enforcement and emergency services may not have the right tools to get information from the public in real time and share details with the public.

- **Restricted Access to Safety Information:** People may have trouble getting safety tips and advice that can help them avoid dangerous conditions.

The "Crime Reporting and Safety" app tries to address these root causes by giving people an easy-to-use, accessible, and anonymous way to report crimes, making it easier for citizens and officials to talk to each other, and giving the public important safety information.

Objective:

The "Crime Reporting and Safety" app project has the following main goals:

- **Faster reaction times:** The "Crime Reporting and Safety" app can help reduce the time it takes for police to get to crime scenes and other emergencies by giving them real-time information about where people are. This can make things better for the people who have been hurt and stop more harm from happening.
- **Increased reporting:** The "Crime Reporting and Safety" app can make it easier and more handy for people to report crimes and emergencies. This can make people more likely to report crimes, which can help police better understand and deal with crime trends.
- **Reduced crime:** The "Crime Reporting and Safety" app can help stop crime and make communities safer by making it easy for people to report crimes and emergencies.
- **Better communication:** The "Crime Reporting and Safety" app can make it easier for the public and law enforcement to talk to each other by giving people a place to report crimes and situations and a way for law enforcement to let people know how investigations are going and other important information.

Solution:

The app will be developed for both Android and iOS platforms and will utilize the following technologies:

Frontend: JavaScript

Backend: Java

Database: MySQL

Geolocation Services: Google Maps API

Security: End-to-end encryption, user authentication, and data encryption in transit and at rest

Target Users and Benefits:

Target Users

The "Crime Reporting and Safety" app is made for a wide range of users who all work together to improve public safety and make it easier to report crimes and situations and get help when they happen. People who will use this project are:

- **General Public:**

People in the community who may see or experience crimes and want an easy and quick way to report them, people who need help right away in cases like medical emergencies, accidents, or crimes. Also, people who are worried about their privacy or safety and want to report something without giving their name.

- **Law Enforcement Agencies:**

It is the job of police departments and other law enforcement agencies to react to and look into crimes.

Dispatchers are the people who get and deal with reports of incidents.

- **Emergency Medical Services:**

Medical staff and ambulance services need information quickly so they can handle medical situations.

- **Security Personnel:**

Private security companies and their employees are in charge of keeping different places safe. People in security who need to report things quickly.

- **Emergency Dispatchers and Call Centers:**

Real-time incident reports can be helpful for people who handle emergency calls for a living.

- **Safety-Conscious Individuals:**

The "Crime Reporting and Safety" app is useful for a wide range of people because it is open to everyone and easy to use. This lets people help with public safety and emergency action. It helps bridge the gap between the people and the government, making the community safer and more responsive.

Benefits

- Fast and correct reporting of incidents.
- Enhanced communication between citizens and authorities.
- Real-time location info for faster response.
- Anonymous reporting to encourage reporting without fear.
- Sorting incidents into groups so that resources can be used most effectively.
- Access to lists of emergency call numbers.
- Chat in real time with police or medical staff.
- Tips and facts about safety.
- User feedback for continuous improvement.

Basic Functions:

The app will include the following key features:

- **Registration and Profile Management:**

Users can create personal profiles with their essential information. Profile management includes options to update contact details and preferences. This feature allows for a more personalized experience and facilitates communication with law enforcement or medical personnel.

- **Real-Time Crime Reporting:**

Users can report crimes or emergencies in real-time through the app. Reporting includes providing incident details such as type, description, date, and time. This feature ensures immediate notification to relevant authorities, expediting response times.

- **Location Services (GPS and Manual):**

The app utilizes GPS for automatic location tagging of incidents. Users can also manually input location details if needed. Precise location data enhances the effectiveness of emergency response.

- **Anonymous Reporting:**

To address concerns about privacy, users have the option to submit reports anonymously. This encourages reporting by individuals who may fear retribution or invasion of their privacy.

- **Incident Categorization:**

Users categorize incidents into specific types (e.g., theft, assault, medical emergency). This feature aids authorities in prioritizing and responding to incidents based on their nature and severity.

- **Photo or Video Upload:**

Users can attach images or videos related to the incident when making a report. Visual evidence enhances the accuracy and completeness of incident reports.

- **Emergency Services Directories:**

The app includes a directory of emergency contact numbers and local law enforcement agencies. Users can quickly access contact information for immediate assistance.

- **Real-Time Chat System with the Organization (Law or Medical):**

Users can engage in real-time chat with law enforcement or medical personnel. This feature allows for two-way communication, enabling users to provide additional information or receive updates on reported incidents.

- **Report Tracking:**

Users can track the status of their reported incidents within the app. This transparency provides peace of mind and keeps users informed about the progress of their reports.

- **Safety Tips and Information:**

The app offers a section with safety tips, guidelines, and relevant information. Users can access valuable resources to protect themselves and their communities.

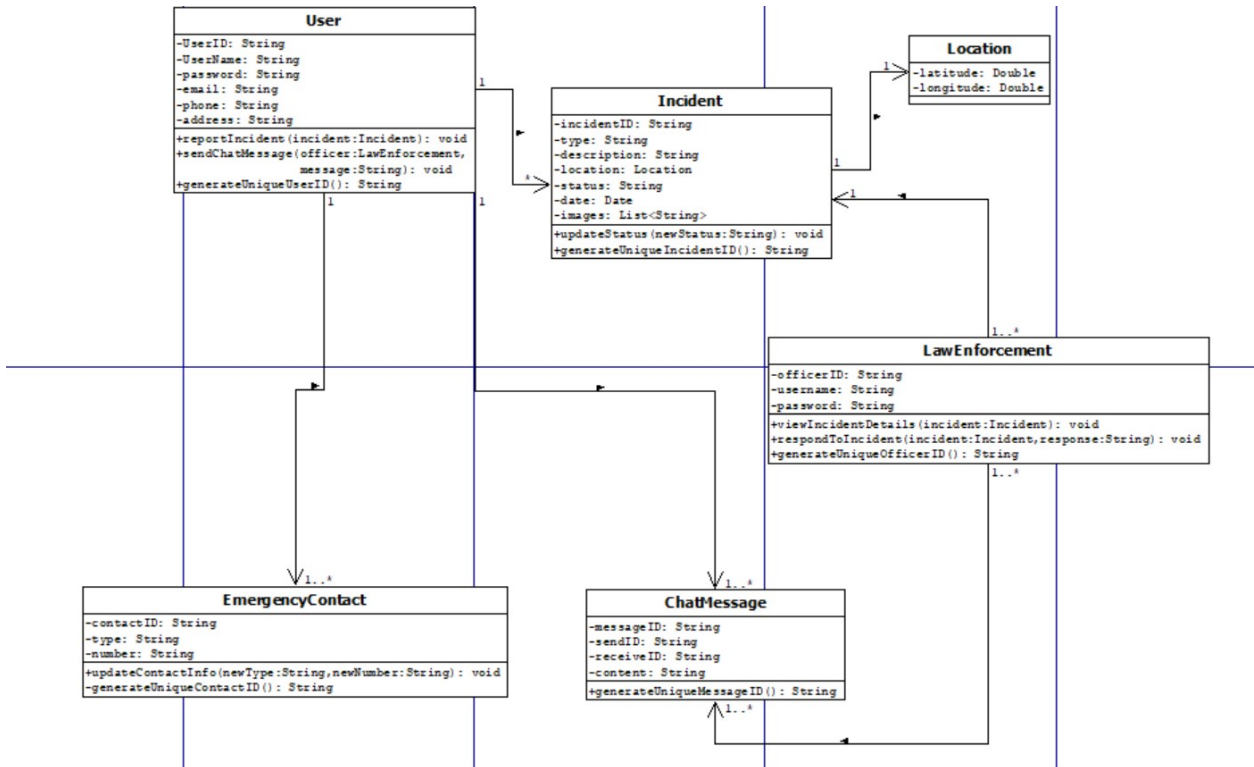
- **User Feedback and Ratings:**

Users can provide feedback and ratings for the app's performance and usability. This feedback loop helps improve the app and ensures ongoing user satisfaction.

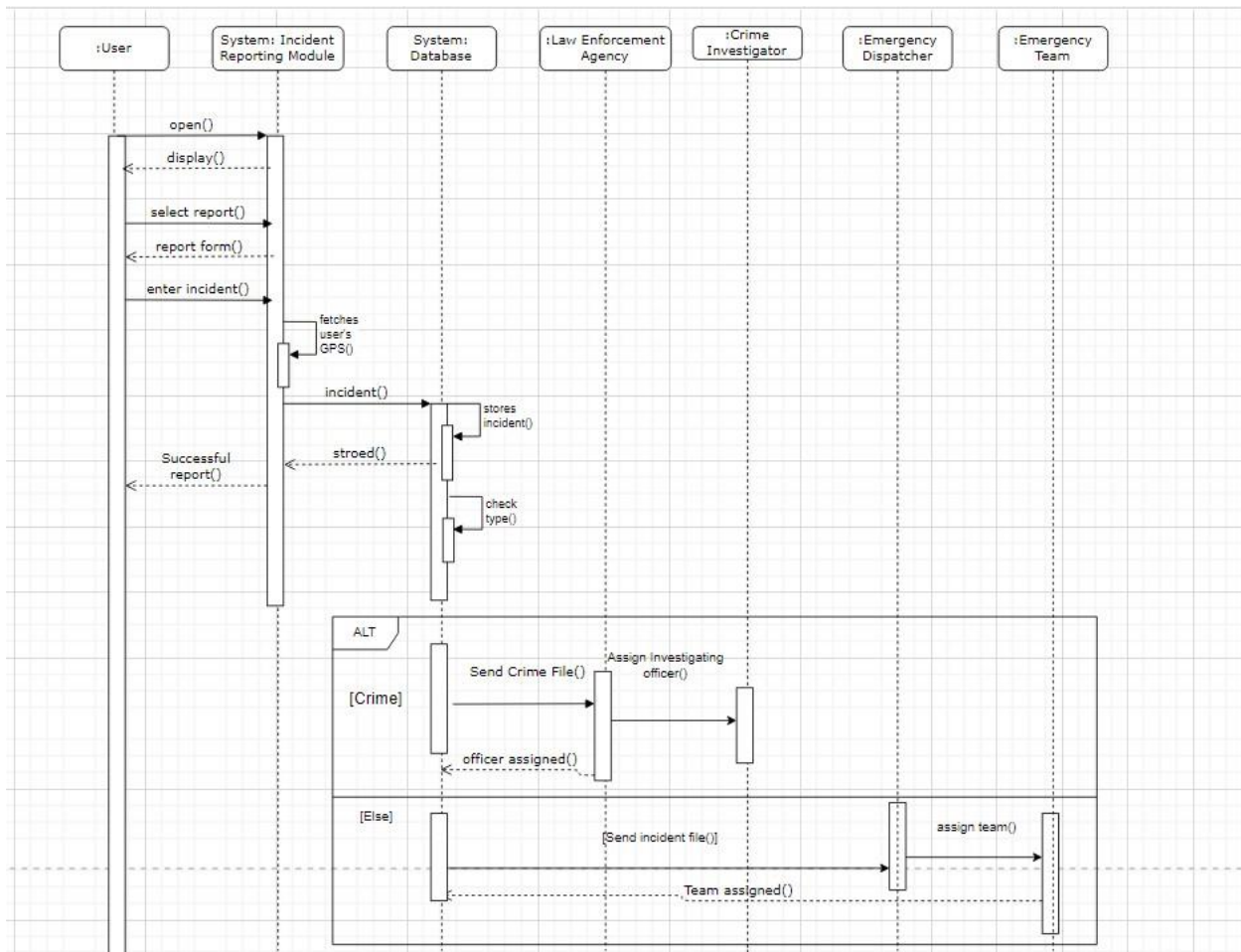
These features collectively make the "Crime Reporting and Safety" app a comprehensive and indispensable tool for both citizens and law enforcement or medical personnel. It not only facilitates incident reporting but also fosters better communication, provides essential safety information, and encourages user engagement to enhance public safety and emergency response efforts.

UML DIAGRAM

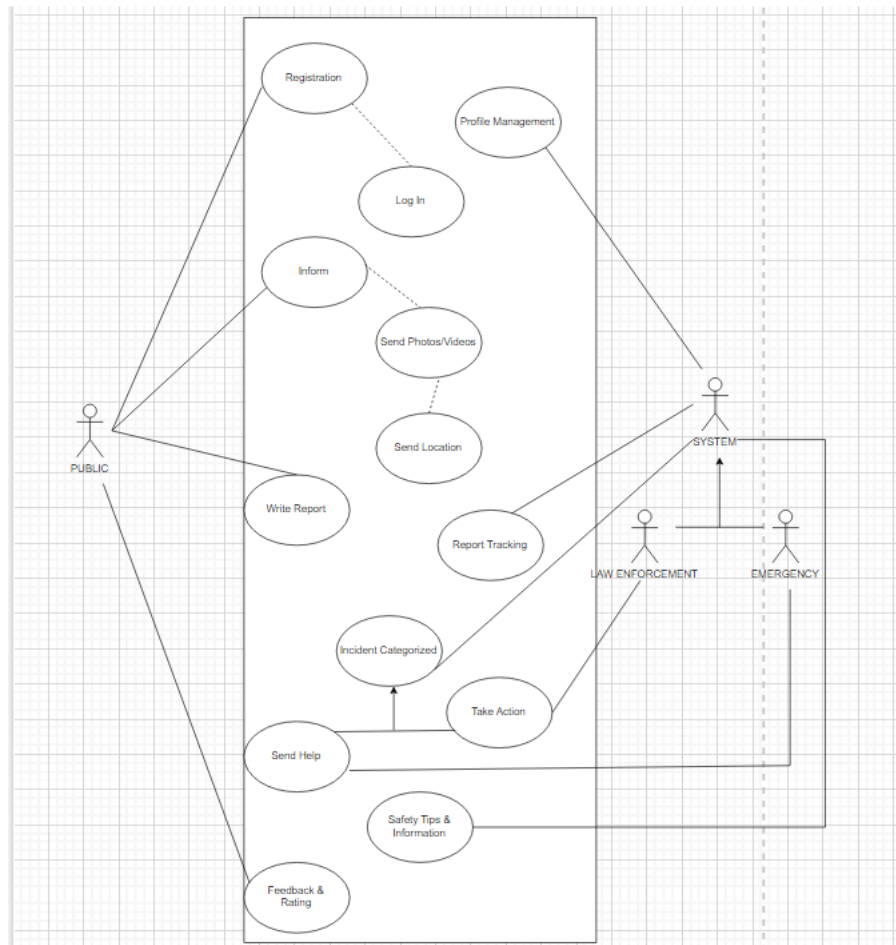
CLASS DIAGRAM



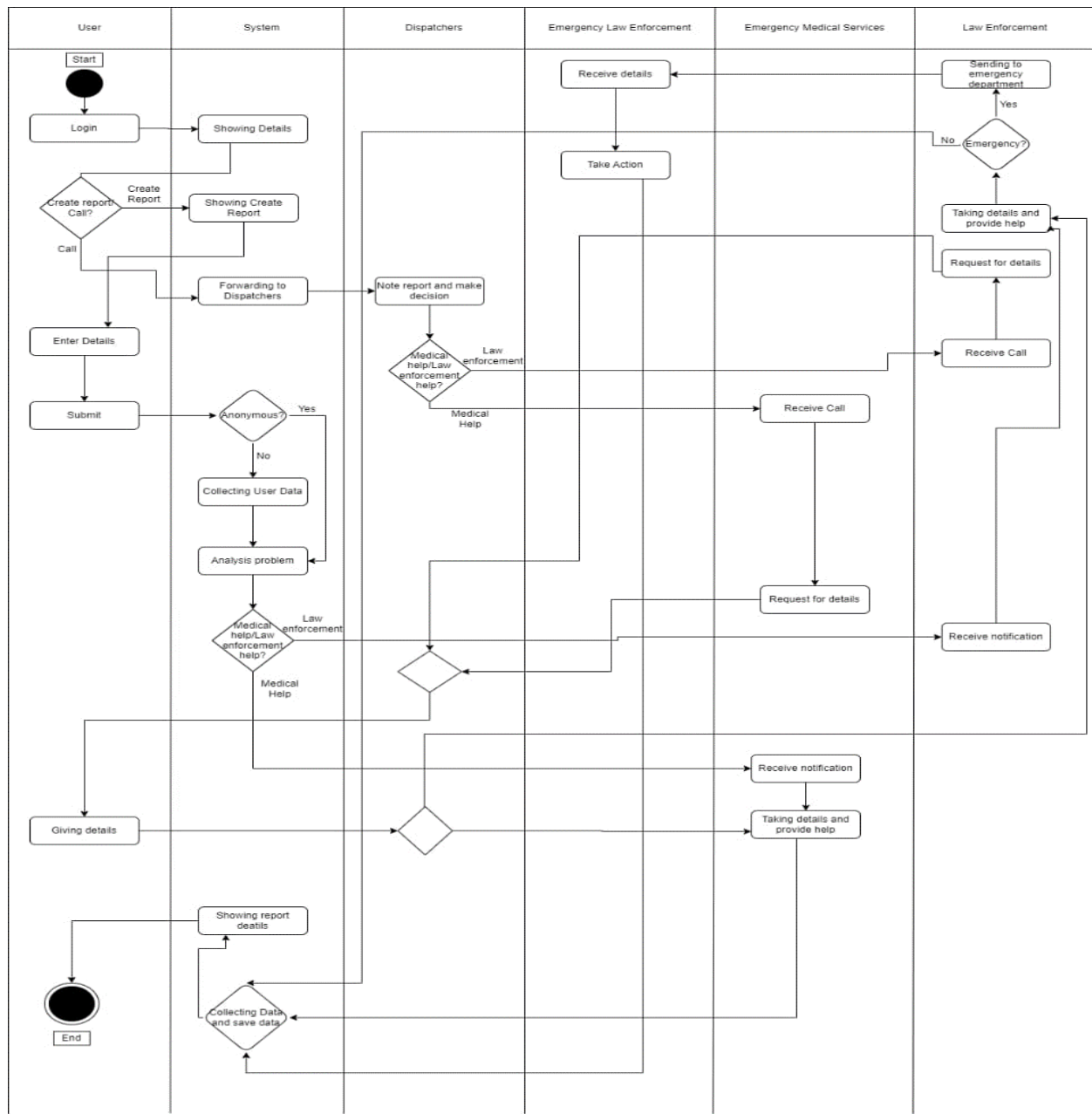
Sequence Diagram



Use Case Diagram



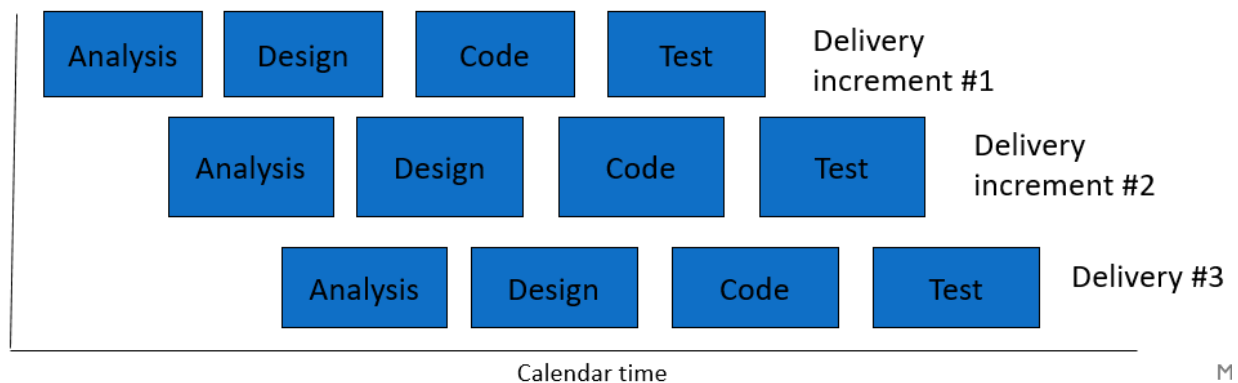
Activity Diagram



Model Selection

Incremental development Model

Rather than deliver the system as a single delivery, the development and delivery is broken down into increments with each increment delivering part of the required functionality (SPIRAL). The requirements are relatively certain but there are many complexities that leads to frequent changes. User requirements are prioritized and the highest priority requirements are included in early increments. Once the development of an increment is started, the requirements are frozen though requirements for later increments can continue to evolve.



Advantages of Incremental Development

Customer value can be delivered with each increment, so system functionality is available earlier.
Deliver the core product first.

Early increments act as a prototype to help elicit requirements for later increments.

Lower risk of overall project failure.

The highest priority system services tend to receive the most testing.

Arguments:

Incremental development for a crime reporting app involves phased delivery of essential features like real-time reporting and emergency contacts, addressing urgent safety concerns promptly. This approach encourages continuous feedback, enabling adaptation to diverse user needs and ensuring user-friendliness. In a dynamic environment, it offers flexibility to incorporate emerging safety concerns and new technologies. By breaking the process into manageable increments, risks are identified early and managed efficiently without affecting the overall project. It fosters collaboration, aligning the app with law enforcement and public requirements. The model allows

quick responses to changing safety needs, ensuring the app's relevance. Additionally, it optimizes resource utilization, enhancing productivity by focusing on high-priority functionalities.

Roles and responsibilities:

1. Project Manager

Responsibilities:

- **Overall Project Planning:** Plans the overall project, breaking it down into increments and scheduling their development cycles.
- **Resource Allocation:** Allocates resources to different incremental phases based on project requirements and team capacity.
- **Progress Monitoring:** Tracks the progress of each increment, ensuring they are completed on time and within budget.
- **Stakeholder Communication:** Communicates progress, challenges, and changes to stakeholders, managing their expectations throughout the incremental development process.

2. Product Owner

Responsibilities:

- **Incremental Planning:** Works with the development team to prioritize features for each increment based on stakeholder needs and project goals.
- **Requirement Refinement:** Ensures that requirements for each increment are well-defined, feasible, and aligned with the overall project objectives.
- **Acceptance Testing:** Validates completed increments, ensuring they meet the acceptance criteria defined for each phase.
- **Feedback Incorporation:** Gathers feedback after each increment and incorporates it into subsequent planning and development cycles.

3. Development Team

Responsibilities:

- **Incremental Development:** Implements features and functionalities for each increment as per the defined requirements and designs.

- **Collaboration:** Works closely with the Product Owner and other team members to ensure a shared understanding of requirements and priorities.

5. Quality Assurance (QA) Team

Responsibilities:

- **Testing Strategy:** Develops a testing strategy for each increment, focusing on both new features and regression testing of existing functionalities.
- **Regression Testing:** Ensures that existing features continue to function correctly as new increments are added, preventing regressions.
- **Feedback Integration:** Collaborates with the development team to address issues identified during testing and ensures they are resolved in subsequent increments.

6. Deployment and Operations Team

Responsibilities:

- **Deployment Planning:** Plans the deployment of each increment, ensuring a smooth transition from development to production environments.
- **Infrastructure Management:** Manages the servers, databases, and other infrastructure elements necessary for deploying and running the software increments.
- **Monitoring:** Monitors the performance and stability of the application after each increment deployment, identifying and addressing any issues promptly.

7. User Experience (UX) Designer

Responsibilities:

- **Incremental Design:** Designs user interfaces for each increment, ensuring they are intuitive, user-friendly, and align with the overall user experience strategy.
- **Feedback Incorporation:** Incorporates user feedback received after each increment into subsequent UX designs, iterating on the interface to improve user satisfaction.

8. Documentation Specialist

Responsibilities:

- **Documentation Creation:** Prepares documentation for each increment, including user guides, release notes, and API documentation.

- **Version Control:** Ensures that documentation is version-controlled and aligned with the features and changes introduced in each increment.
- **User Education:** Provides educational materials to users for new features introduced in each increment, ensuring they understand how to utilize the enhancements effectively.

9. Security Specialist

Responsibilities:

- **Incremental Security:** Ensures that each increment maintains the required security standards and that new features do not introduce vulnerabilities.
- **Security Testing:** Conducts security testing after each increment to identify and mitigate potential security risks introduced during development.
- **Compliance:** Ensures that each increment complies with relevant security regulations and standards, maintaining the overall security posture of the application.

Requirement Analysis

1. Real-Time Crime Reporting

Functional Requirements

1.1 The app provides a list of incident types, and users can choose the appropriate category for their report.

1.2 Users can input a detailed description of the incident, along with the date and time when it occurred.

1.3 Once the user submits the report, law enforcement or emergency services receive immediate notification with all relevant incident details.

Priority: Critical

Precondition: User must be logged into the app.

2. Location Services (GPS and Manual)

Functional Requirements

2.1 The app accurately identifies the user's location using GPS and attaches it to the incident report.

2.2 Users can manually input location details if GPS data is not available or inaccurate.

2.3 Emergency response teams receive accurate location information, enabling them to respond quickly to the reported incident.

Priority: Critical

Precondition: App must have location permissions enabled.

3. Anonymous Reporting

Functional Requirements

3.1 The app provides a clearly visible checkbox or toggle labeled as "Submit Anonymously" during the incident reporting process.

3.2 When the "Submit Anonymously" option is selected, the app does not prompt users for identifiable information such as name, email, or contact number.

3.3 The app includes educational material or pop-up tips explaining the importance of anonymous reporting in creating a safer community.

Priority: High

Precondition: User must be logged into the app.

4. Real-Time Chat System with the Organization (Law or Medical)

Functional Requirements

4.1 Users can open a chat window, select the type of personnel (law enforcement or medical), and initiate a conversation.

4.2 The app displays the real-time availability status of personnel to users, indicating whether they are reachable for a chat.

4.3 Users can type messages, attach files if necessary, and send them to the designated personnel.

4.4 Users receive push notifications or in-app alerts for new messages, ensuring they are promptly informed about responses from personnel.

Priority: High

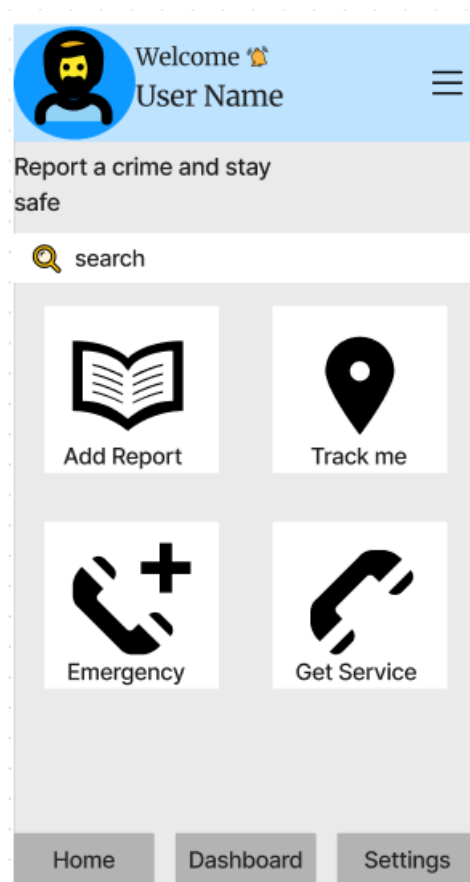
Precondition: User must be logged into the app.

Non-Functional Requirements:

1. Performance
2. Security
3. Usability
4. Compliance
5. Maintainability

UI/UX Design

1. Home page:



Project Test Planning

Project Name: Crime Reporting and Safety		Test Designed by:		
Test Case ID: FR_1		Test Designed date:		
Test Priority (Low, Medium, High): High		Test Executed by: Mohammed Tanvir Hassan		
Module Name: Location Services		Test Execution date: 11/5/2023		
Test Title: Location Services (GPS and Manual Input)				
Description: The app does not accurately identify the user's location using GPS and does not allow users to input manual location details when GPS data is unavailable or inaccurate.				
Precondition (If any): NA				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Launch the Application 2. User Authentication 3. Accessing the Reporting Feature 4. Initiating a Report 5. Incident Details Submission 6. Input Location Services (GPS and Manual Input) 7. Submit the report	1. Username: Test 2. Password: 1234 3. Incident information 4. 4. Automatic location tagging feature using GPS and by also using the manual input option.	During reporting user can provide the incident location to the application.	The app is generating the report to the expected individual without the location information.	Fail
Post Condition: 1. The application accurately captures and attaches the user's location to the incident report, ensuring emergency response teams receive precise information for rapid response.				

Project Name: Crime Reporting and Safety			Test Designed by:	
Test Case ID: FR_2			Test Designed date:	
Test Priority (Low, Medium, High): High			Test Executed by: Sabbir Ahmed	
Module Name: Incident Categorization			Test Execution date:11/5/2023	
Test Title: Incident Categorization Issue				
Description: During incident categorization, the app fails to provide the list of incident types for users to choose from making the incident reporting process unusable.				
Precondition (If any): User is logged into the Real-Time Crime Reporting App and attempts to report an incident.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<div>1. Open the Real-Time Crime Reporting App.</div> <div>2. Attempt to report an incident.</div> <div>3. Observe that the list of incident types is not displayed.</div>	<div>Username</div> <div>Password</div>	<div>The app should provide a comprehensive list of incident types for users to choose from during the incident reporting process.</div>	<div>The app does not display any incident types</div>	<div>Fail</div>
Post Condition: The incident categorization module functions correctly, displaying a list of incident types for users to choose from.				

































































Project Name: Crime Reporting and Safety	Test Designed by:
Test Case ID: FR_3	Test Designed date:
Test Priority (Low, Medium, High): High	Test Executed by: Faiza Binte Zaman
Module Name: Anonymous Reporting	Test Execution date:11/5/2023

Test Title: Anonymous Reporting Functionality Issue				
Description: Even when the "Submit Anonymously" option is selected, the app prompts users for identifiable information, such as name, email, or contact number.				
Precondition (If any): User is logged into the Real-Time Crime Reporting App and attempts to report an incident anonymously.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open the Real-Time Crime Reporting App. 2. Select an incident type from the provided list. 3. Enter a detailed description of the incident along with the date and time. 4. Check the "Submit Anonymously" checkbox. 5. Attempt to submit the report.	1. Incident Type 2. Description 3. Date and Time	The app should process the incident report without prompting the user for any identifiable information, adhering to the requirement of anonymous reporting.	The app prompts the user for personal details even when the "Submit Anonymously" option is selected.	Fail
Post Condition: The "Submit Anonymously" checkbox is visible and functional, enabling users to submit reports anonymously.				

Project Name: Crime Reporting and Safety	Test Designed by:
Test Case ID: FR_4	Test Designed date:
Test Priority (Low, Medium, High): Critical	Test Executed by: Md. Naimur Rahman

Module Name: Real-Time Chat System			Test Execution date: 11/5/2023	
Test Title: Real-Time Chat System Unavailability				
Description: Users are unable to open a chat window or initiate conversations with law enforcement or medical personnel, rendering the real-time chat system non-functional.				
Precondition (If any): The user is logged into the Real-Time Crime Reporting App and attempts to initiate a chat with law enforcement or medical personnel.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
6. Open the Real-Time Crime Reporting App. 7. Attempt to initiate a chat with law enforcement or medical personnel. 8. Observe that the chat system is unresponsive, and users cannot send messages.	4. Username 5. Password 6. Personnel Type 7. Message	Users should be able to open a chat window, select personnel, and initiate a conversation seamlessly.	The chat system is unresponsive, preventing users from initiating conversations with law enforcement or medical personnel.	Fail
Post Condition: Users can successfully open a chat window, select personnel, and engage in real-time conversations.				

WBS and Effort Estimation

	Task Mode ▾	Task Name ▾	Duration ▾	Start ▾	Finish ▾	Predecessors ▾	Resource Names ▾
		▸ Crime and safety reporting app	7 days	Mon 11/27/23	Tue 12/5/23		
		▸ Project Management	4 days	Mon 11/27/23	Thu 11/30/23		
		Project Initiation	1 day	Mon 11/27/23	Mon 11/27/23		Project Manager,Stakeholders
		Planning and Scheduling	1 day	Tue 11/28/23	Tue 11/28/23	3	Project Manager,Planning Team
		Resource Allocation	1 day	Wed 11/29/23	Wed 11/29/23	3,4	Project Manager,Resource Managers
		Risk Management	1 day	Thu 11/30/23	Thu 11/30/23	5	Project Manager,Risk Analyst
		Progress Tracking and Reporting	1 day	Mon 11/27/23	Mon 11/27/23		Project Manager,Reporting Team
		▸ Frontend Development	3 days	Tue 11/28/23	Thu 11/30/23		
		Requirement Analysis	1 day	Tue 11/28/23	Tue 11/28/23	3	Business Analyst,Frontend Developer
		User Interface (UI) Design	1 day	Wed 11/29/23	Wed 11/29/23	9	Graphic Designer,UI/UX Designer
		Implementation - Android	1 day	Thu 11/30/23	Thu 11/30/23	10	Android Developers,Testing Team
		Implementation - iOS	1 day	Thu 11/30/23	Thu 11/30/23	10	iOS Developers,Testing Team
		Testing and Debugging	1 day	Thu 11/30/23	Thu 11/30/23	9SF,10,11SF,12SF	Quality Assurance Team,Testing Team
		▸ Backend Development	3 days	Tue 11/28/23	Thu 11/30/23		
		Backend Architecture Design	1 day	Tue 11/28/23	Tue 11/28/23	3	Backend Architect,Technical Lead
		Database Design and Setup	1 day	Wed 11/29/23	Wed 11/29/23	15	Backend Developers,Database Administrators
		Implementation - Java Backend	1 day	Thu 11/30/23	Thu 11/30/23	16	Backend Developers,Java Developers
		Testing and Debugging	1 day	Wed 11/29/23	Thu 11/30/23	15,16SF,17SF	Quality Assurance Team,Testing Team
		▸ Integration and Security	5 days	Mon 11/27/23	Fri 12/1/23		
		Integration of Frontend and Backend	1 day	Fri 12/1/23	Fri 12/1/23	11,12	Backend Developers,Frontend Developer,Integration Specialists
		Security Implementation (End-to-End Encryption)	1 day	Mon 11/27/23	Mon 11/27/23		Encryption Expert,Security Analysts
		Testing and Security Audits	1 day	Mon 11/27/23	Mon 11/27/23		Quality Assurance Team,Security Testers
		▸ Geolocation Services Integration	1 day	Mon 11/27/23	Mon 11/27/23		
		Integration of GPS Services	1 day	Mon 11/27/23	Mon 11/27/23		Geolocation Specialists,Developers
		Real-time Location Tagging	1 day	Mon 11/27/23	Mon 11/27/23		Geolocation Specialists,Technical Lead
		Manual Location Input	1 day	Mon 11/27/23	Mon 11/27/23		Developers,User Interface Designers
		▸ User Management and Profiles	4 days	Mon 11/27/23	Thu 11/30/23		
		User Registration and Authentication	1 day	Thu 11/30/23	Thu 11/30/23	16	Backend Developers,Security Experts
		Profile Creation and Management	1 day	Mon 11/27/23	Mon 11/27/23		Backend Developers,UI/UX Designer
		User Preferences Configuration	1 day	Mon 11/27/23	Mon 11/27/23		Developers,UX Specialists
		▸ Reporting Functionality	1 day	Thu 11/30/23	Thu 11/30/23	16	
		Incident Reporting Interface	1 day	Thu 11/30/23	Thu 11/30/23		Frontend Developer,UX Specialists
		Anonymous Reporting Feature	1 day	Thu 11/30/23	Thu 11/30/23		Backend Developers,Security Experts
		Media Upload (Photos/Videos)	1 day	Thu 11/30/23	Thu 11/30/23		Backend Developers,UX Specialists
		Categorization of Incidents	1 day	Thu 11/30/23	Thu 11/30/23		Backend Developers,Data Analysts
		▸ Communication Features	5 days	Mon 11/27/23	Fri 12/1/23		
		Real-time Chat with Authorities	1 day	Fri 12/1/23	Fri 12/1/23	28	Backend Developers,Frontend Developer
		Incident Status Tracking	1 day	Mon 11/27/23	Mon 11/27/23		Backend Developers,UX Specialists
		User Feedback and Ratings	1 day	Fri 12/1/23	Fri 12/1/23	28	Data Analysts,Developers
		▸ Emergency Services Directories	4 days	Mon 11/27/23	Thu 11/30/23		
		Compilation of Emergency Contacts	1 day	Thu 11/30/23	Thu 11/30/23	16	Content Managers,Data Entry Staff
		Integration with Local Agencies	1 day	Mon 11/27/23	Mon 11/27/23		Backend Developers,Technical Integration Team
		▸ Safety Information Section	2 days	Mon 12/4/23	Tue 12/5/23	8,14,19,23	
		Safety Tips and Guidelines	1 day	Mon 12/4/23	Mon 12/4/23		Content Writers,Subject Matter Experts
		Resource Information for Users	1 day	Tue 12/5/23	Tue 12/5/23	44	Content Creators,Information Managers

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Project Manager, Stakeholders

Project Manager, Planning Team

Project Manager, Resource Managers

Project Manager, Risk Analyst

Project Manager, Reporting Team

Business Analyst, Frontend Developer

Graphic Designer, UI/UX Designer

Android Developers, Testing Team

OS Developers, Testing Team

Quality Assurance Team, Testing Team

Backend Architect, Technical Lead

Backend Developers, Database Administrators

Backend Developers, Java Developers

Quality Assurance Team, Testing Team

Backend Developers, Frontend Developer, Integration Specialists

Encryption Expert, Security Analysts

Quality Assurance Team, Security Testers

Geolocation Specialists, Developers

Geolocation Specialists, Technical Lead

Developers, User Interface Designers

Backend Developers, Security Experts

Backend Developers, UI/UX Designer

Developers, UX Specialists

Frontend Developer, UX Specialists

Backend Developers, Security Experts

Backend Developers, UX Specialists

Backend Developers, Data Analysts

Backend Developers, Frontend Developer

Backend Developers, UX Specialists

Data Analysts, Developers

Content Managers, Data Entry Staff

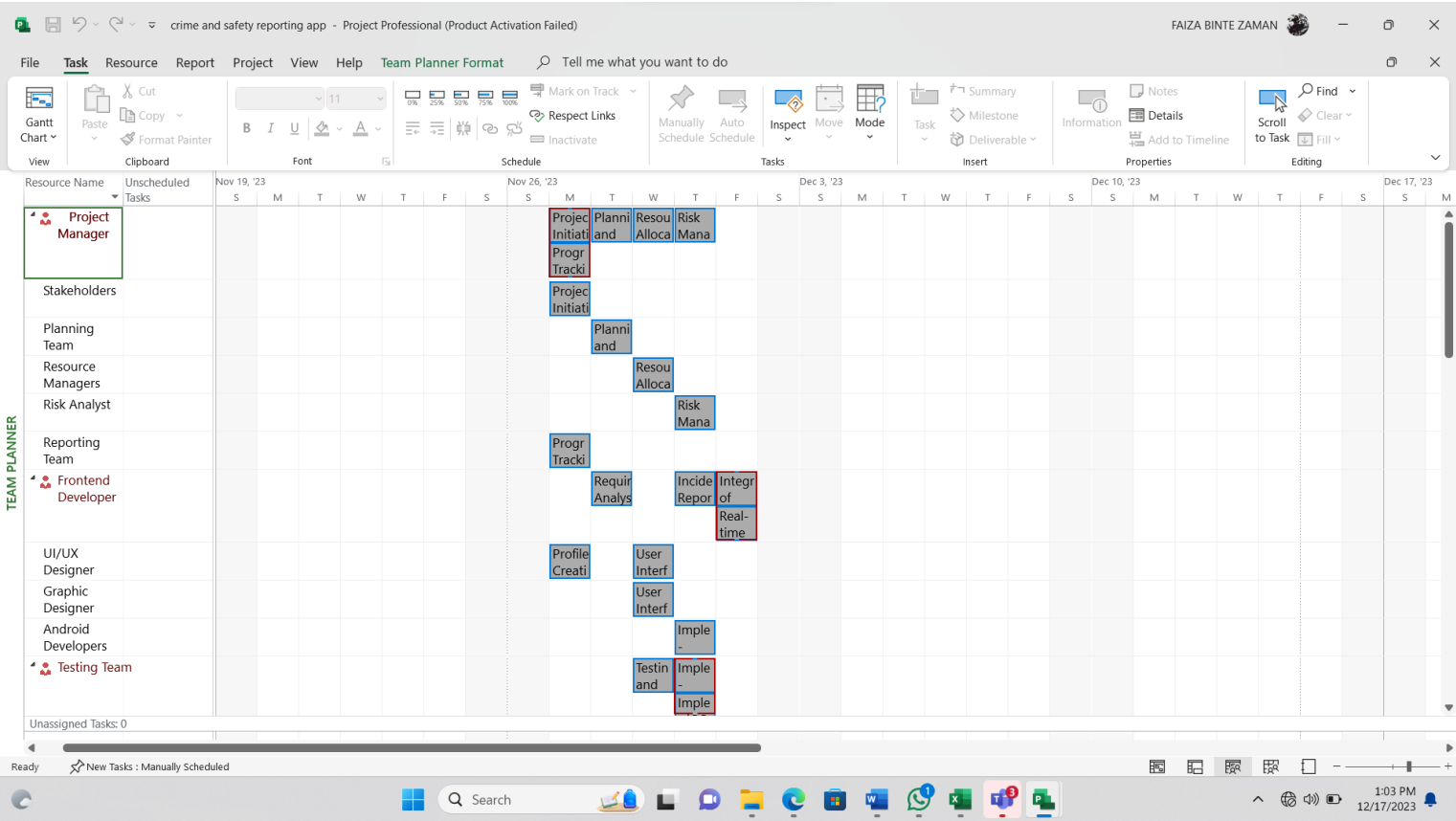
Backend Developers, Technical Integration Team

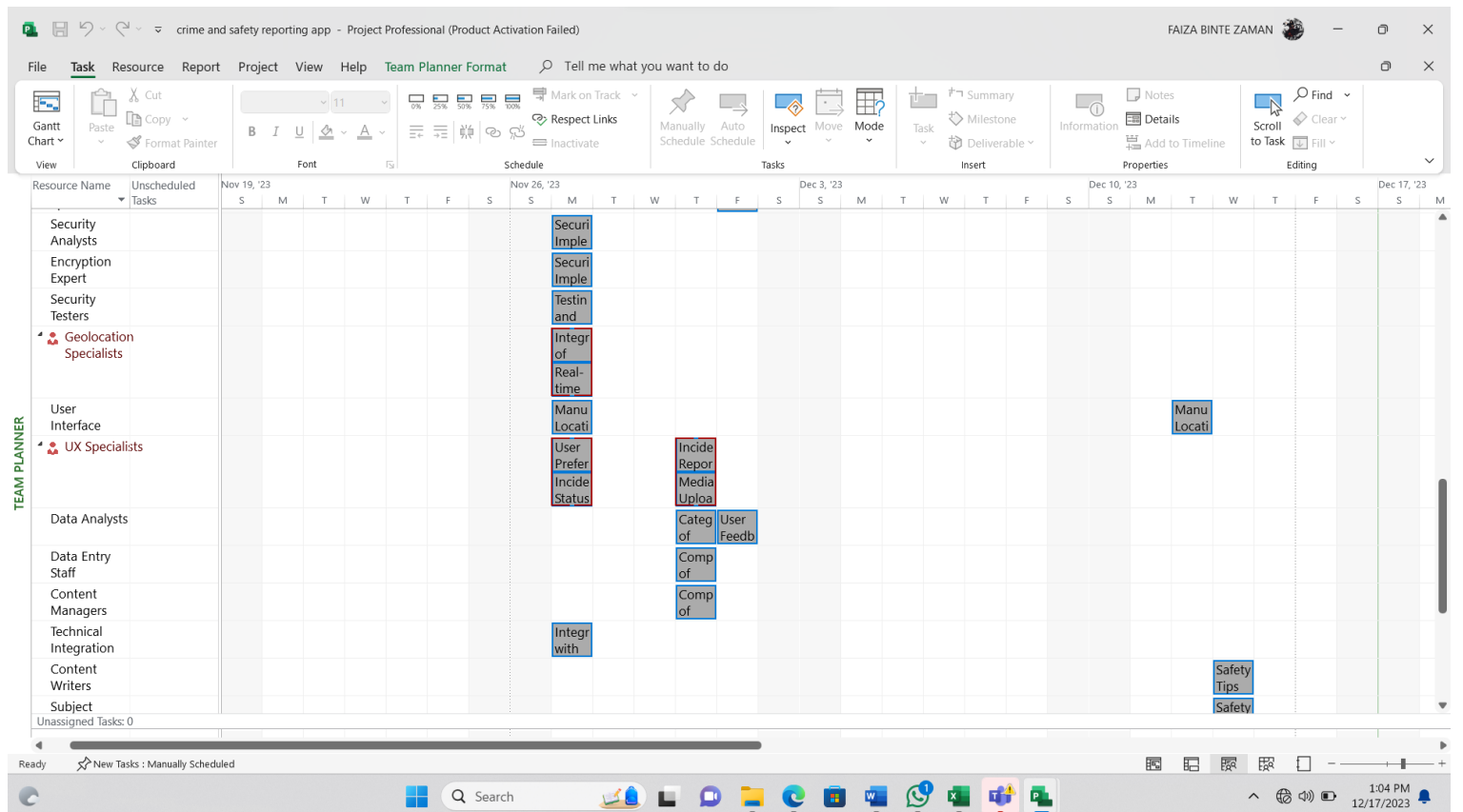
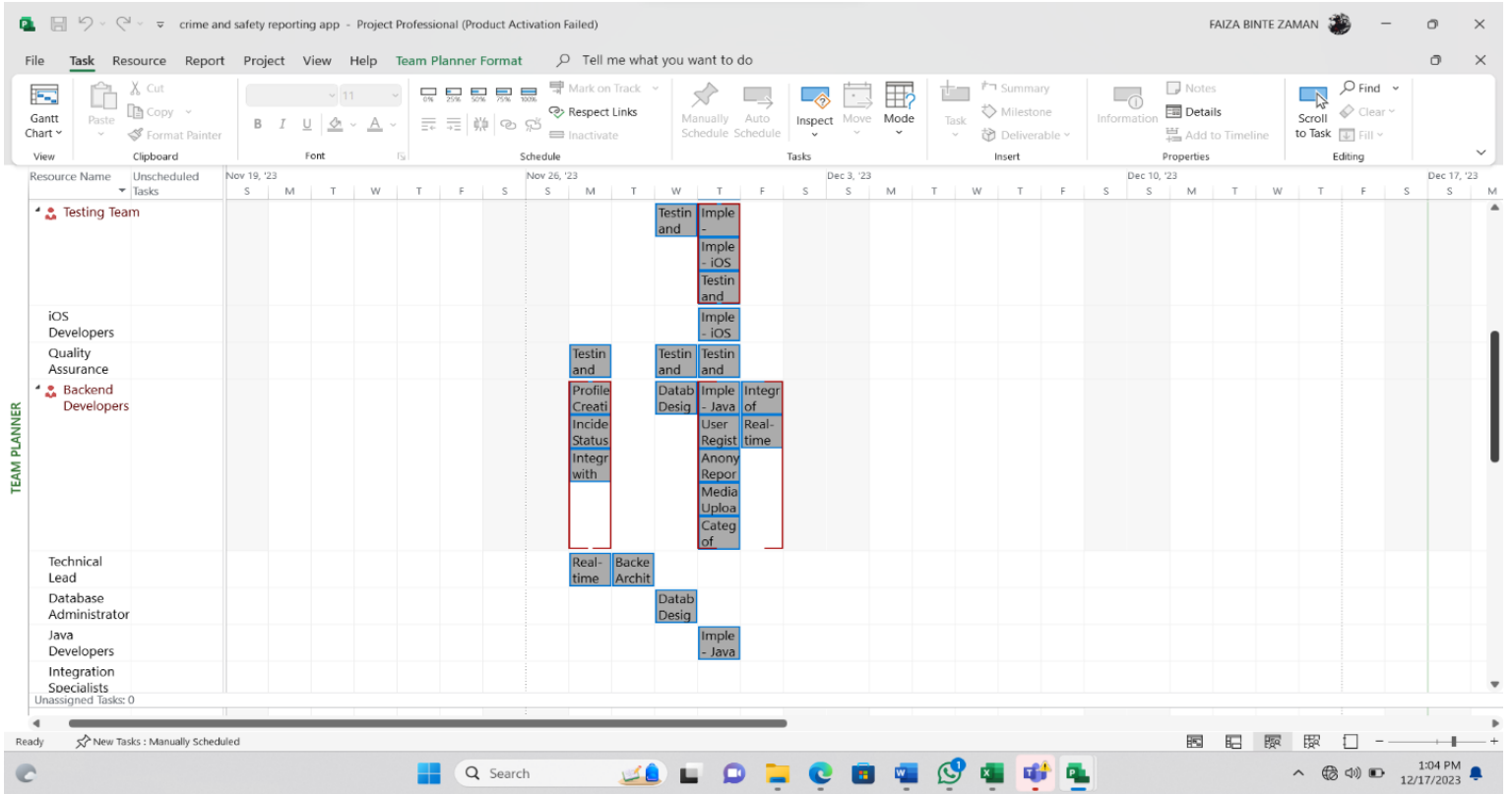
Content Writers, Subject Matter Experts

Content Creators, Information Managers

Activity Scheduling and Resource Allocation

Activity Scheduling





crime and safety reporting app - Project Professional (Product Activation Failed)

FAIZA BINTE ZAMAN

FileTaskResourceReportProjectViewHelpTeam Planner FormatTell me what you want to do

Gantt Chart

Paste

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Format Painter

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11

B

I

U

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75%

100%

Mark on Track

Respect Links

Inactivate

Manually Schedule

Auto Schedule

Inspect

Move

Mode

Task

Milestone

Deliverable

Summary

Information

Notes

Details

Add to Timeline

Find

Scroll to Task

Clear

Fill

View

Clipboard

Font

IS

Schedule

Tasks

Insert

Properties

Editing

Resource Name	Unscheduled Tasks	Nov 19, '23	S	M	T	W	T	F	S	Nov 26, '23	S	M	T	W	T	F	S	Dec 3, '23	S	M	T	W	T	F	S	Dec 10, '23	S	M	T	W	T	F	S	Dec 17, '23	S	M
Security Staff																																				
Content Managers																																				
Technical Integration																																				
Content Writers																																				
Subject Matter																																				
Content Creators																																				
Information Managers																																				
Business Analyst																																				
Backend Architect																																				
Developers																																				
Security Experts																																				

Unassigned Tasks: 0

ReadyNew Tasks : Manually Scheduled

Search

1:05 PM12/17/2023

Resource Allocation

	Resource Name	Type	Material Label	Initials	Group	Max. Units	Std. Rate	Ovt. Rate	Cost/Use	Accrue At	Base Calendar
	Project Manager	Work		pM		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Stakeholders	Work		S		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Planning Team	Work		P		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Resource Managers	Work		RM		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Risk Analyst	Work		RA		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Reporting Team	Work		R		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Frontend Developer	Work		F		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	UI/UX Designer	Work		U		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Graphic Designer	Work		G		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Android Developers	Work		A		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Testing Team	Work		T		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	iOS Developers	Work		I		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Quality Assurance Team	Work		Q		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Backend Developers	Work		B		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Technical Lead	Work		T		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Database Administrators	Work		D		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Java Developers	Work		J		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Integration Specialists	Work		I		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Security Analysts	Work		S		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Encryption Expert	Work		E		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Security Testers	Work		S		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Geolocation Specialists	Work		G		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	User Interface Designers	Work		U		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	UX Specialists	Work		U		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Data Analysts	Work		D		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Data Entry Staff	Work		D		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Content Managers	Work		C		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Technical Integration Team	Work		T		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Content Writers	Work		C		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Subject Matter Experts	Work		S		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Content Creators	Work		C		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Information Managers	Work		I		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Business Analyst	Work		B		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Backend Architect	Work		B		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Developers	Work		D		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Security Experts	Work		S		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard

Risk Analysis

	A	B	C	D	E	F	G	H	I
1	No.	Risk	Risk Category	Risk Description	Impact Description	Impact (I)	Probability (P)	Score (I x P)	Mitigation Plan
2	1	Technical Incompetence	Technical	Lack of technical expertise and knowledge impacting project development and performance.	Poor code quality, system failures, and development delays affecting project timeline and functionality.	4	2	8	Implement training programs, hire experienced developers, conduct regular technology stack updates, and perform integration tests.
3	2	Data Security Breaches	Security	Vulnerabilities leading to unauthorized access, data leaks, or cyber-attacks jeopardizing user data and trust.	Compromised user information, legal consequences, reputational damage, and financial losses due to breaches.	4	4	16	Use end-to-end encryption, comply with data protection laws, and conduct frequent security audits.
4	3	Inaccurate Location Services	Functional	Inconsistencies in location services impacting app reliability and functionality.	User dissatisfaction, distrust, and incorrect data affecting user experience and functionality.	3	3	9	Integrate multiple location verification methods and continuously test GPS accuracy.
5	4	Low User Adoption	Strategic	Insufficient user interest and engagement impacting project success and sustainability.	Reduced revenue, failure to reach business goals, and decreased project success.	4	4	16	Engage in community outreach, user education, and effective marketing strategies.
6	5	Delayed Real-Time Response	Technical	Slow response times hampering user experience and app usability.	User frustration, abandonment, and negative reviews affecting user retention and growth.	4	4	16	Invest in robust server infrastructure and optimize app performance for speed.
7	6	Maintenance Challenges	Operational	Lack of proper maintenance leading to app degradation and user dissatisfaction.	Decreased performance, security vulnerabilities, and user dissatisfaction over time.	3	3	9	Plan regular app updates and allocate a maintenance budget.
8	7	Legal and Compliance Issues	Compliance	Failure to comply with legal and regulatory requirements posing risks to the project's existence.	Legal disputes, fines, reputational damage, and potential project shutdown due to non-compliance.	4	4	16	Conduct legal reviews, ensure adherence to regional laws, and maintain a legal advisory team.
9	8	Financial Instability	Financial	Lack of stable financial support impacting project sustainability and growth.	Hindered operations, limited growth opportunities, and potential project failure due to funding issues.	4	4	16	Diversify funding sources and establish a sustainable financial model.
10	9	Market Competition	Strategic	Inability to stand out in a competitive market affecting project growth and viability.	Reduced market share, struggles in user attraction, and hindrance to project success.	3	2	6	Conduct market research and develop a unique value proposition.
11	10	Ethical Misuse	Ethical	Misuse or exploitation of the app leading to ethical concerns and potential backlash.	Controversies, ethical dilemmas, and damage to the project's reputation and user trust.	3	2	6	Develop and enforce ethical guidelines, monitor app usage patterns.

Risk Matrix

A	B	C	D	E	F	G	H	I	J	K								
Probability	Master Risk Matrix						<div>Legend</div> <table><tr><th>Color Code</th><th>Score</th></tr><tr><td>High</td><td>>12</td></tr><tr><td>Medium</td><td>5 - 12</td></tr><tr><td>Low</td><td>1 - 4</td></tr></table>				Color Code	Score	High	>12	Medium	5 - 12	Low	1 - 4
	Color Code	Score																
	High	>12																
	Medium	5 - 12																
	Low	1 - 4																
	5	5	10	15	20	25												
	4	4	8	12	16	20												
	3	3	6	9	12	15												
2	2	4	6	8	10													
1	1	2	3	4	5													
	1	2	3	4	5													
	Impact																	