



INSY6212 ASSINGMENT 2

ST10194321 & ST1034088



MAY 9, 2025

PREPARED FOR:

Felicia Jagdeo

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Introduction to Application

ShepSafe is a user-friendly mobile application designed specifically for the Port Shepstone CBD and the surrounding areas within a 10-kilometer radius. The primary purpose of this application is to provide timely notifications to community members regarding local crime incidents (Dlamini, 2022). The app will facilitate the creation of interactive community forums which will connect the existing Crime Prevention Forum (CPF) groups directly with local residents.

Users which are the community will have the ability to receive real-time updates, send emergency alerts, request immediate assistance or patrol support, and engage actively in community discussions (Crime Spotter, 2025). The app will include educational resources, providing practical safety tips and strategies on how to effectively prevent and respond to potential threats (Crime Spotter, 2025).

This application will directly addresses the increasing crime rates in the currently deteriorating CBD, which have begun to affect the surrounding communities. Through the act of improving communication and collaboration between CPF groups and local residents, the application aims to grow a stronger, more proactive community approach to public safety and crime prevention (Dlamini, 2022).

Question 1.1

In the case for the crime notification and prevention app for Port Shepstone called ShepSafe, a project evaluation form will provide a detailed breakdown of project objectives. The evaluation form will serve for gathering feedback from users, stakeholders, and project team members (Gido, Clements and Baker, 2018). Assess how well the application is functioning in terms of usability, responsiveness, and effectiveness in crime prevention. It will help in identifying the strengths as well as weaknesses so that the development team can recognize which features is working correctly, for instance, call for assistance, which has various developing factors, user interface design, system bugs, or community interactions features (Landau, 2022). The project evaluation form promotes accountability of the projects team, aligning the teams with the goals and expectations of the community. From a management perspective, it provides an extensive overview of the project, centralizing data to aid the decision making processes.

Considering growing crime in Port Shepstone CBD and how the apps features will help with community security (Jasson, 2024). Implementing a project evaluation form will correctly identity and address the concerns of the people in the community which in turn enhances the development of the application in response to the people's comments. This maintains the apps relevance and user trust whilst progressing towards the ultimate goal of securing the community.

Question 1.2

Cross-platform development is a software development approach that enables developers to create a single application that can run on multiple operating systems such as Android and iOS using one shared codebase (Białęcki, 2023). Whereas the alternative is to create native application for each platform that the application is accessed through. In the case of the notification and crime prevention in Port Shepstone CBD and surrounding areas, using a single codebase for a cross platform development style will be most beneficial. Ensuring accessibility across all platforms and devices while maintaining a consistent function and UI/UX.

Cross platform development for our crime alert and prevention application helps to simplify the development process by reducing the amount of time that is required for developing and maintaining individual applications for each platform (Białęcki, 2023). The developer can write the logic and UI pieces once, using a unified codebase and run them for Android and iOS. It gets rid of the duplicate efforts, reduces testing hours, and becomes easier to make bug fixes and updates. Therefore, the project can be implemented faster, enabling us to react fast to the increase in crime in the Port Shepstone CBD and vicinity.

Performance

Due to the cross platform frameworks differ from the native frameworks, there will be a minor performance penalty (Białęcki, 2023). Additionally, the graphical or resourceful predominate features will increase the latency of the application.

User Interface

The application may not always support all components of the UI design the same way, resulting in inconsistencies in the look and feel of the application.

Security

Cross Platform components are not as well looked after compared to the native counterparts. The libraries used are sometimes outdated creating risks in code and user experience. The storage and encryption for the application will provide some challenges as each platform has different criteria (Białęcki, 2023). Finding a middle

ground between the platform criteria's whilst maintaining the security standards of the application may be difficult.

Cross platform development ensures that all users, with various devices have access to the same set of features, interface design, and application updates. This consistency improves usability and reliability, especially for an application focused on safety and communication (Białycki, 2023). Faster update cycles and easier maintenance mean issues can be resolved quickly, reducing user frustration. The ability to deliver a smooth and uniform experience across platforms increases user satisfaction and trust in the app, which is crucial for a tool that the community will rely on for receiving crime alerts, requesting help, and staying informed.

Question 1.3

Real Time Crime Alerts

One of the core deliverables for this project is the Real-Time Crime Alerts feature. This will allow users within a radius of Port Shepstone CBD to receive immediate notifications about nearby criminal activity, categorized by type, urgency, and location. It will rely on geolocation services to ensure alerts are accurate and timely, and CPF members will be responsible for verifying and issuing these alerts via an admin dashboard (Crime Spotter, 2025). This feature is essential to the project's aim of increasing community safety and awareness, as outlined in the Project Charter (Gillis, 2022). By delivering real time information, the application ensures residents are well informed and can take proactive steps to avoid dangerous situations, thus directly supporting the project's objective of reducing crime and improving communication.

Emergency Help Request

A major deliverable is Emergency Help Request, which will include a panic button that sends an SOS message as well as the user's live location to nearby enforcement members (Crime Spotter, 2025). This tool may also connect to emergency services and will log all help requests for follow up or accountability (Gillis, 2022). This deliverable is crucial because it empowers residents to seek immediate assistance during emergencies. This feature aligns with the project's mission to provide quick and effective crime response mechanisms and ensure community members are never left without support when they need it most (Gido, Clements and Baker, 2018).

CPF Community Forum

A key deliverable is the CPF Community Forum, which will offer a space for users to join monitored local discussion groups. These forums will enable real time interactions, allowing residents to report concerns, share observations, and receive updates from CPF (Crime Spotter, 2025). This feature shows the project's commitment to strengthening communication between CPF groups and the broader community. As outlined in the Project Charter, creating an inclusive and collaborative environment is essential for a sustainable crime prevention strategy, and the forum delivers just that (Gido, Clements and Baker, 2018).

Interactive crime maps

The Interactive Crime Map is another deliverable that adds great value to the application. This map will visualize recent crime data within an area, allowing users to view hotspots, filter incidents by type and time, and better understand local safety trends (Crime Spotter, 2025). CPF members can also use it to manage patrol zones effectively. Visualizing data helps users grasp complex crime patterns quickly, which in turn informs their daily decisions. This supports the goal of enhancing safety awareness and using technology to provide data-driven insights into community safety (Gillis, 2022).

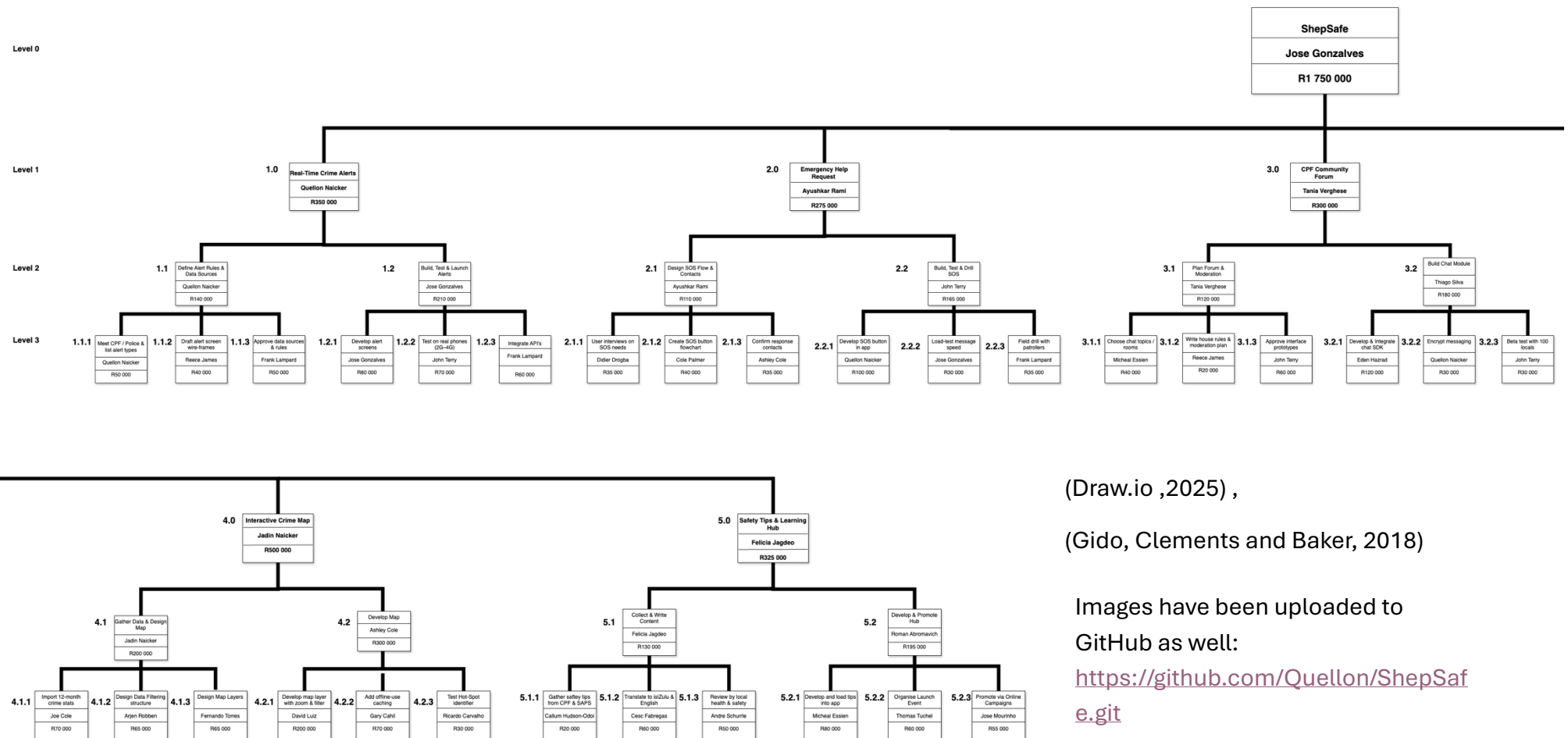
Safety Tips & Learning Hub

The safety tips and learning hub is an educational resource within the app. It will include articles, videos, and guides that teach users how to protect themselves, respond to threats, and understand local safety laws and procedures (Crime Spotter, 2025). This content will be regularly updated to remain relevant to the evolving crime landscape (Gillis, 2022). This will also be the place where users can learn more about the app and how it could help them. The purpose of this deliverable is to empower residents with knowledge, helping to prevent crime through awareness and preparation. This ties directly into the projects goal of educating the public and building a proactive, informed community equipped to handle safety challenges (Gido, Clements and Baker, 2018).

Question 2

ShepSafe Work Breakdown Structure

Link: https://drive.google.com/drive/folders/19jEjvIFCjv-LmR8sEQemYnc_U-hmewI?usp=share_link



(Draw.io ,2025) ,

(Gido, Clements and Baker, 2018)

Images have been uploaded to

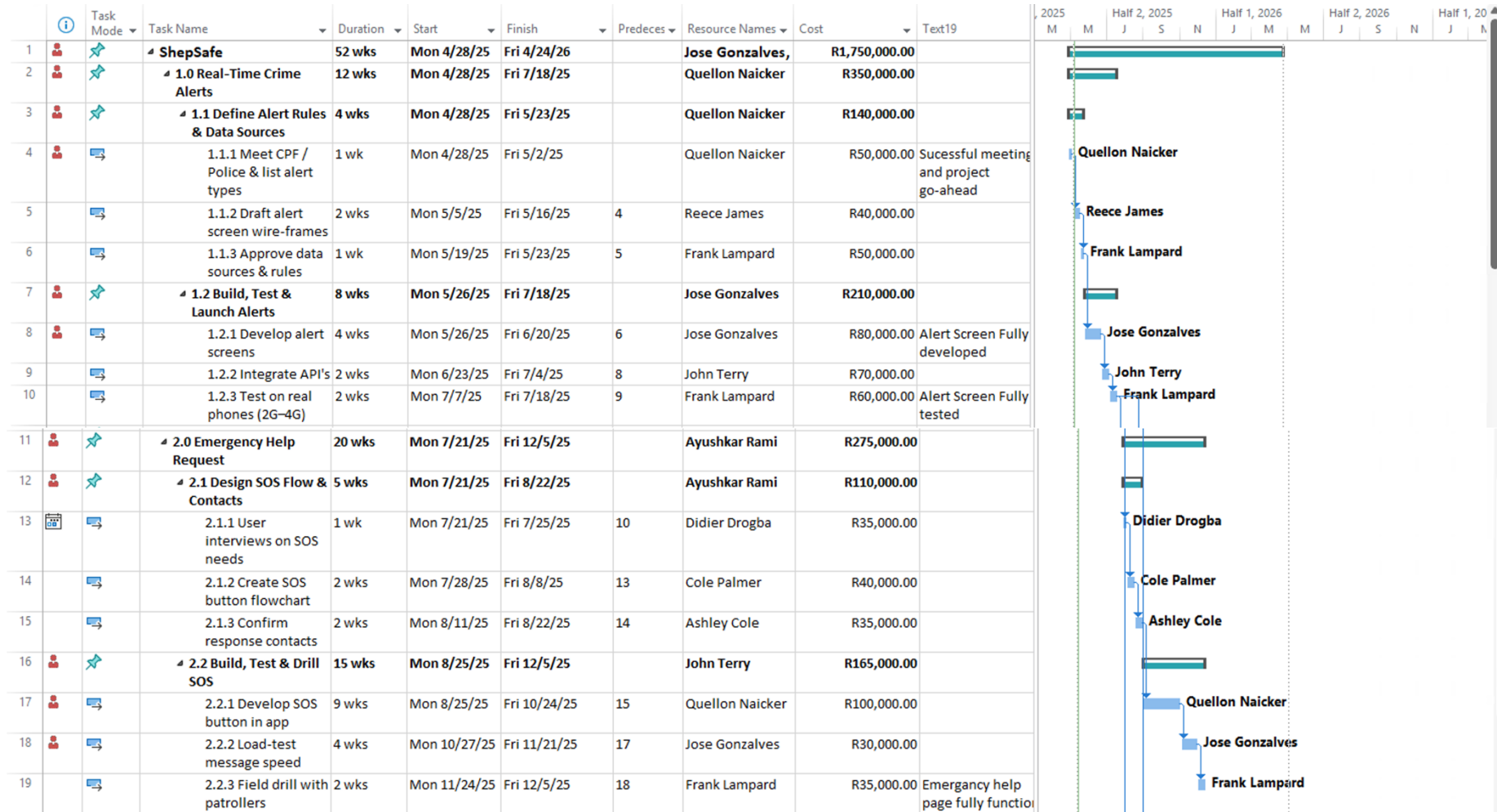
GitHub as well:

<https://github.com/Quellon/ShepSaf>
e.git

























Question 3.1

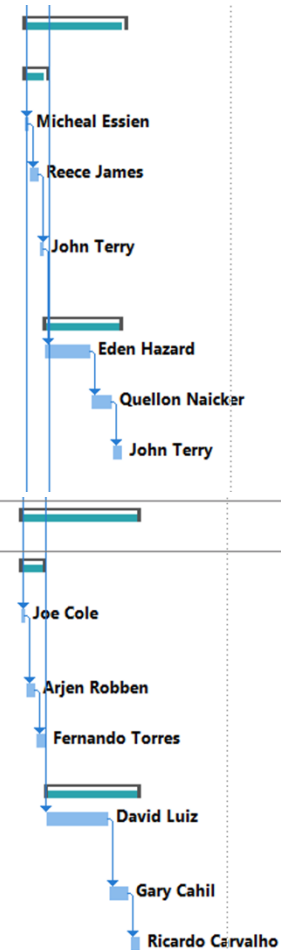
Indentured List and Gantt

Link: https://drive.google.com/drive/folders/1Yi9X8bIP9qxKsCADAxEG-uyt9RpVXRFD?usp=share_link



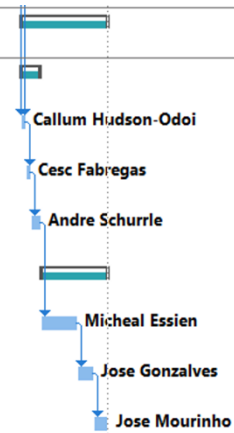
(Microsoft,2025b) ,(Gido, Clements and Baker, 2018)

| | | | | | | | | | | |
|----|---|---|--|--------|--------------|--------------|----|------------------|-------------|--|
| 20 |  |  | 3.0 CPF Community Forum | 20 wks | Mon 7/21/25 | Fri 12/5/25 | | Tania Verghese | R300,000.00 | |
| 21 |  |  | 3.1 Plan Forum & Moderation | 5 wks | Mon 7/21/25 | Fri 8/22/25 | | Tania Verghese | R120,000.00 | |
| 22 |  |  | 3.1.1 Choose chat topics / rooms | 1 wk | Mon 7/21/25 | Fri 7/25/25 | 10 | Micheal Essien | R40,000.00 | |
| 23 | |  | 3.1.2 Write house rules & moderation plan | 2 wks | Mon 7/28/25 | Fri 8/8/25 | 22 | Reece James | R20,000.00 | |
| 24 | |  | 3.1.3 Approve interface prototypes | 1 wk | Mon 8/11/25 | Fri 8/15/25 | 23 | John Terry | R60,000.00 | |
| 25 |  |  | 3.2 Build Chat Module | 15 wks | Mon 8/18/25 | Fri 11/28/25 | | Thiago Silva | R180,000.00 | |
| 26 |  |  | 3.2.1 Develop & Integrate chat SDK | 9 wks | Mon 8/18/25 | Fri 10/17/25 | 24 | Eden Hazard | R120,000.00 | |
| 27 |  |  | 3.2.2 Encrypt messaging | 4 wks | Mon 10/20/25 | Fri 11/14/25 | 26 | Quellon Naicker | R30,000.00 | |
| 28 |  |  | 3.2.3 Beta test with locals | 2 wks | Mon 11/17/25 | Fri 11/28/25 | 27 | John Terry | R30,000.00 | Community Chat fully functional |
| 29 |  |  | 4.0 Interactive Crime Map | 23 wks | Mon 7/21/25 | Fri 12/26/25 | | Jadin Naicker | R500,000.00 | |
| 30 |  |  | 4.1 Gather Data & Design Map | 5 wks | Mon 7/21/25 | Fri 8/22/25 | | Jadin Naicker | R200,000.00 | |
| 31 | |  | 4.1.1 Import 12-month crime stats | 1 wk | Mon 7/21/25 | Fri 7/25/25 | 10 | Joe Cole | R70,000.00 | |
| 32 | |  | 4.1.2 Design Data Filtering structure | 2 wks | Mon 7/28/25 | Fri 8/8/25 | 31 | Arjen Robben | R65,000.00 | |
| 33 | |  | 4.1.3 Design Map Layers | 2 wks | Mon 8/11/25 | Fri 8/22/25 | 32 | Fernando Torres | R65,000.00 | |
| 34 |  |  | 4.2 Develop Map | 18 wks | Mon 8/25/25 | Fri 12/26/25 | | Ashley Cole | R300,000.00 | |
| 35 |  | | 4.2.1 Develop map layer with zoom & filter | 12 wks | Mon 8/25/25 | Fri 11/14/25 | 10 | David Luiz | R200,000.00 | |
| 36 | |  | 4.2.2 Add offline-use caching | 4 wks | Mon 11/17/25 | Fri 12/12/25 | 35 | Gary Cahil | R70,000.00 | |
| 37 | |  | 4.2.3 Test Hot-Spot identifier | 2 wks | Mon 12/15/25 | Fri 12/26/25 | 36 | Ricardo Carvalho | R30,000.00 | Tested and developed Crime hotspot map |



(Microsoft,2025b), (Gido, Clements and Baker, 2018)

| | | | | | | | | | | | |
|----|--|--|--------------------------------------|--------|--------------|-------------|----------|--------------------|-------------|--|--|
| 38 | | | 5.0 Safety Tips & Learning Hub | 17 wks | Mon 12/29/25 | Fri 4/24/26 | | Felicia Jagdeo | R325,000.00 | | |
| 39 | | | 5.1 Collect & Create Content | 4 wks | Mon 12/29/25 | Fri 1/23/26 | | Felicia Jagdeo | R130,000.00 | | |
| 40 | | | 5.1.1 Gather safety tips from CPF & | 1 wk | Mon 12/29/25 | Fri 1/2/26 | 28,37,19 | Callum Hudson-Odoi | R20,000.00 | | |
| 41 | | | 5.1.2 Translate to isiZulu & English | 1 wk | Mon 1/5/26 | Fri 1/9/26 | 40 | Cesc Fabregas | R60,000.00 | | |
| 42 | | | 5.1.3 Review by local health & | 2 wks | Mon 1/12/26 | Fri 1/23/26 | 41 | Andre Schurrle | R50,000.00 | | |
| 43 | | | 5.2 Develop & Promote Hub | 13 wks | Mon 1/26/26 | Fri 4/24/26 | | Roman Abromavich | R195,000.00 | | |
| 44 | | | 5.2.1 Develop and load tips into app | 7 wks | Mon 1/26/26 | Fri 3/13/26 | 42 | Micheal Essien | R80,000.00 | | |
| 45 | | | 5.2.2 Organise Launch Event | 3 wks | Mon 3/16/26 | Fri 4/3/26 | 44 | Jose Gonzalves | R60,000.00 | | |
| 46 | | | 5.2.3 Promote via Online Campaigns | 3 wks | Mon 4/6/26 | Fri 4/24/26 | 45 | Jose Mourinho | R55,000.00 | Successful implementation of Ti and launch | |



Baseline Plan Set

| Task Mode | Task Name | Duration | Start | Finish | Predecessors | Resource Names | Cost | Text19 |
|-----------|--|----------|-------------|-------------|--------------|---------------------|---------------|---|
| 1 | ShepSafe | 52 wks | Mon 4/28/25 | Fri 4/24/26 | | Jose Gonzalves, Buc | R1,750,000.00 | |
| 2 | 1.0 Real-Time Crime Alerts | 12 wks | Mon 4/28/25 | Fri 7/18/25 | | Quellon Naicker | R350,000.00 | |
| 3 | 1.1 Define Alert Rules & Data Sources | 4 wks | Mon 4/28/25 | Fri 5/23/25 | | | 000.00 | |
| 4 | 1.1.1 Meet CPF / Police & list alert types | 1 wk | Mon 4/28/25 | Fri 5/2/25 | | | 000.00 | Successful meeting and project go-ahead |
| 5 | 1.1.2 Draft alert screen wire-frames | 2 wks | Mon 5/5/25 | Fri 5/16/25 | | | 000.00 | |
| 6 | 1.1.3 Approve data sources & rules | 1 wk | Mon 5/19/25 | Fri 5/23/25 | | | 000.00 | |
| 7 | 1.2 Build, Test & Launch Alerts | 8 wks | Mon 5/26/25 | Fri 7/18/25 | | | 000.00 | |
| 8 | 1.2.1 Develop alert screens | 4 wks | Mon 5/26/25 | Fri 6/20/25 | | | 000.00 | |
| 9 | 1.2.2 Integrate API's | 2 wks | Mon 6/23/25 | Fri 7/4/25 | | | 000.00 | |
| 10 | 1.2.3 Test on real phones (2G-4G) | 2 wks | Mon 7/7/25 | Fri 7/18/25 | | | 000.00 | Alert Screen Fully developed |
| 11 | 2.0 Emergency Help Request | 20 wks | Mon 7/21/25 | Fri 12/5/25 | | | 000.00 | |
| 12 | 2.1 Design SOS Flow & Contacts | 5 wks | Mon 7/21/25 | Fri 8/22/25 | | Ayushkar Rami | R110,000.00 | |
| 13 | 2.1.1 User | 1 wk | Mon 7/21/25 | Fri 7/25/25 | 10 | Didier Drogba | R35,000.00 | |

Set Baseline

☒ Set baseline

Baseline (last saved on Wed 5/7/25)

☐ Set interim plan

Copy: Scheduled Start/Finish

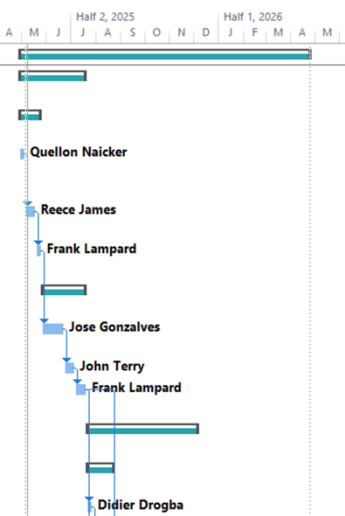
Into: Start1/Finish1

For:
 ☒ Entire project
 ☐ Selected tasks

Roll up baselines:
 ☐ To all summary tasks
 ☐ From subtasks into selected summary task(s)

Set as Default

Help OK Cancel











(Microsoft,2025b)

(Gido, Clements and Baker, 2018)

Question 3.2






















Microsoft Projects Logs

| |  Task Mode ▾ | Task Name ▾ | Issue Name ▾ | Labels ▾ | Assignees ▾ | Project ▾ | Milestones ▾ |
|---|---|------------------------------------|---|---------------|-----------------|-----------|--|
| 1 |  | Meet CPF/Police & list alert types | CPF/Police don't attend meeting | Invalid | Quellon Naicker | ShepSafe | Scheduled meeting with CPF/Police is completed |
| 2 |  | Define Alert Rules & Data Sources | Alerts rules & data sources not clearly defined | Documentation | Quellon Naicker | ShepSafe | Alerts rules & data sources are defined and communicated |
| 3 |  | Develop Alert screens | Screens have a similar design to intended | Help Wanted | Jose Gonzalves | ShepSafe | Screens match intended design |
| 4 |  | Develop SOS button in app | Uncentered buttons | Bug | Quellon Naicker | ShepSafe | Buttons are centered correctly |
| 5 |  | Load-test message speed | Messages have long latency times | Bug | Jose Gonzalves | ShepSafe | Messages present correct text and low latency |
| 6 |  | Encrypt messaging | Messages are easily decoded | Help Wanted | Quellon Naicker | ShepSafe | Messages follow the correct encryption plan |
| 7 |  | Organise Launch Event | Incorrect resources gathered for the audience in attendance | Invalid | Jose Gonzalves | ShepSafe | Correct resources and people are present |

(Microsoft, 2025b)

GitHub Issue Logs

Link: <https://github.com/Quellon/ShepSafe.git>

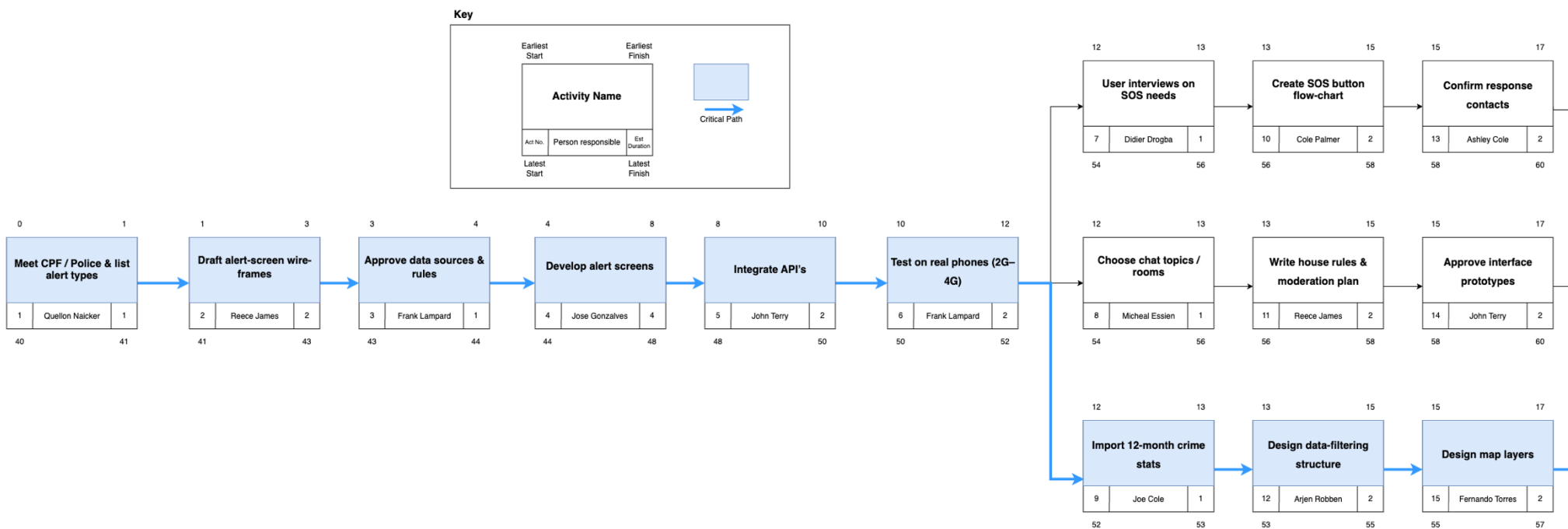
| <input type="checkbox"/> | Open 7 | Closed 0 | Author ▾ | Labels ▾ | Projects ▾ | Milestones ▾ | Assignees ▾ | ≡ ↓ Newest ▾ |
|--------------------------|---|--|----------------------|----------|------------|--------------|-------------|---|
| <input type="checkbox"/> |  | Incorrect resources gathered for the audience in attendance | invalid | | | | |  |
| | | #7 · Quellon opened 10 minutes ago ·  Correct resourc... | | | | | | |
| <input type="checkbox"/> |  | Messages are easily decoded | help wanted | | | | |  |
| | | #6 · Quellon opened 11 minutes ago ·  Messages follo... | | | | | | |
| <input type="checkbox"/> |  | Messages have long latency times | bug | | | | |  |
| | | #5 · Quellon opened 12 minutes ago ·  Messages pres... | | | | | | |
| <input type="checkbox"/> |  | Uncentered buttons | bug | | | | |  |
| | | #4 · Quellon opened 12 minutes ago ·  Buttons are cen... | | | | | | |
| <input type="checkbox"/> |  | Screens have a similar design to intended | help wanted | | | | |  |
| | | #3 · Quellon opened 13 minutes ago ·  Screens match ... | | | | | | |
| <input type="checkbox"/> |  | Alerts rules & data sources not clearly defined | documentation | | | | |  |
| | | #2 · Quellon opened 17 minutes ago ·  Alerts rules & d... | | | | | | |
| <input type="checkbox"/> |  | CPF/Police don't attend meeting | invalid | | | | |  |
| | | #1 · Quellon opened 19 minutes ago ·  Scheduled mee... | | | | | | |

(Github, 2025)

Question 4

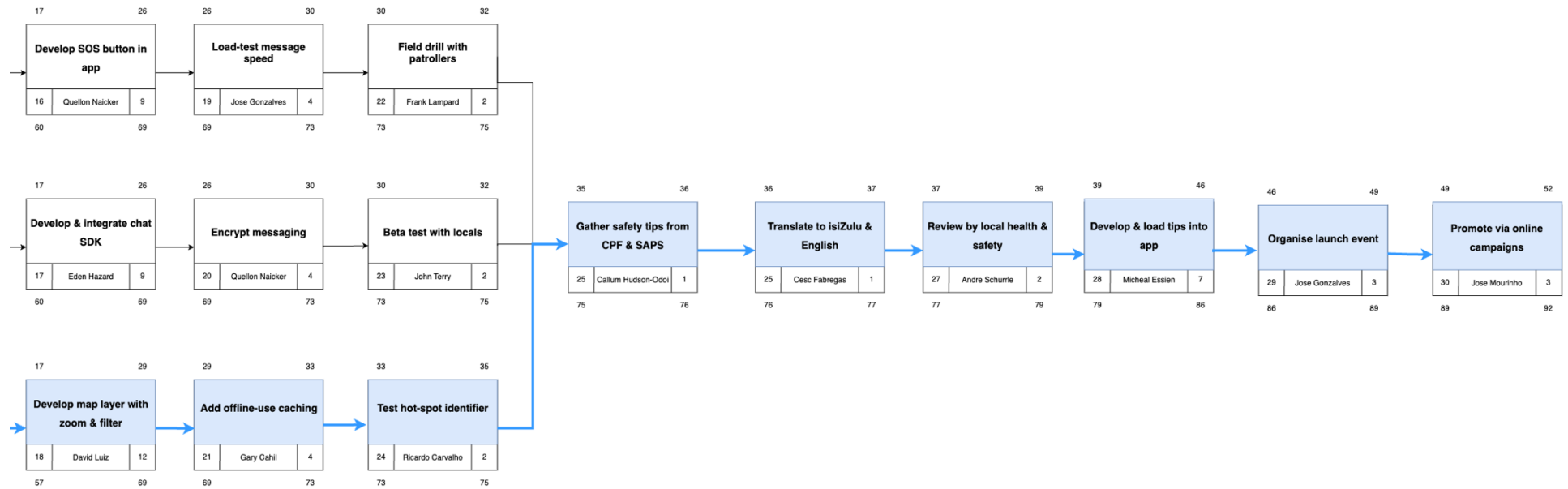
Network Diagram for ShepSafe

Link: https://drive.google.com/drive/folders/18c-Kizl4MkNXA9y3mEt6GrKhVZUXQSws?usp=share_link



(Draw.io ,2025) ,

(Gido, Clements and Baker, 2018)



(Draw.io ,2025) ,

(Gido, Clements and Baker, 2018)

Images have been uploaded to
GitHub as well:

<https://github.com/Quellon/ShepSaf>
[e.git](#)

Schedule Table Showing Earliest/ Latest Start and Finish Times and Total Slack

| | | | | Earlist | | Latest | | |
|----------|--------------------------------------|--------------------|---------------|---------|--------|--------|--------|-------------|
| Activity | | Resonsible | Est. Duration | Start | Finish | Start | Finish | Total Slack |
| 1 | Meet CPF / Police & list alert types | Quellon Naicker | 1 | 0 | 1 | 40 | 41 | 40 |
| 2 | Draft alert screen wire-frames | Reece James | 2 | 1 | 3 | 41 | 43 | 40 |
| 3 | Approve data sources & rules | Frank Lampard | 1 | 3 | 4 | 43 | 44 | 40 |
| 4 | Develop alert screens | Jose Gonzalves | 4 | 4 | 8 | 44 | 48 | 40 |
| 5 | Integrate API's | John Terry | 2 | 8 | 10 | 48 | 50 | 40 |
| 6 | Test on real phones (2G–4G) | Frank Lampard | 2 | 10 | 12 | 50 | 52 | 40 |
| 7 | User interviews on SOS needs | Didier Drogba | 1 | 12 | 13 | 54 | 56 | 43 |
| 8 | Choose chat topics / rooms | Micheal Essien | 1 | 12 | 13 | 54 | 56 | 43 |
| 9 | Import 12-month crime stats | Joe Cole | 1 | 12 | 13 | 54 | 56 | 43 |
| 10 | Create SOS button flowchart | Cole Palmer | 2 | 13 | 15 | 56 | 58 | 43 |
| 11 | Write house rules & moderation plan | Reece James | 2 | 13 | 15 | 56 | 58 | 43 |
| 12 | Design Data Filtering structure | Arjen Robben | 2 | 13 | 15 | 56 | 58 | 43 |
| 13 | Confirm response contacts | Ashley Cole | 2 | 15 | 17 | 58 | 60 | 43 |
| 14 | Approve interface prototypes | John Terry | 2 | 15 | 17 | 58 | 60 | 43 |
| 15 | Design Map Layers | Fernando Torres | 2 | 15 | 17 | 55 | 57 | 40 |
| 16 | Develop SOS button in app | Quellon Naicker | 9 | 17 | 26 | 60 | 69 | 43 |
| 17 | Develop & Integrate chat SDK | Eden Hazard | 9 | 17 | 26 | 60 | 69 | 43 |
| 18 | Develop map layer with zoom & filter | David Luiz | 12 | 17 | 29 | 57 | 69 | 40 |
| 19 | Load-test message speed | Jose Gonzalves | 4 | 26 | 30 | 69 | 73 | 43 |
| 20 | Encrypt messaging | Quellon Naicker | 4 | 26 | 30 | 69 | 73 | 43 |
| 21 | Add offline-use caching | Gary Cahil | 4 | 29 | 33 | 69 | 73 | 40 |
| 22 | Field drill with patrollers | Frank Lampard | 2 | 30 | 32 | 73 | 75 | 43 |
| 23 | Beta test with locals | John Terry | 2 | 30 | 32 | 73 | 75 | 43 |
| 24 | Test Hot-Spot identifier | Ricardo Carvalho | 2 | 33 | 35 | 73 | 75 | 40 |
| 25 | Gather saftey tips from CPF & SAPS | Callum Hudson-Odoi | 1 | 35 | 36 | 75 | 76 | 40 |
| 26 | Translate to isiZulu & English | Cesc Fabregas | 1 | 36 | 37 | 76 | 77 | 40 |
| 27 | Review by local health & safety | Andre Schurrle | 2 | 37 | 39 | 77 | 79 | 40 |
| 28 | Develop and load tips into app | Micheal Essien | 7 | 39 | 46 | 79 | 86 | 40 |
| 29 | Organise Launch Event | Jose Gonzalves | 3 | 46 | 49 | 86 | 89 | 40 |
| 30 | Promote via Online Campaigns | Jose Mourinho | 3 | 49 | 52 | 89 | 92 | 40 |

(Gido, Clements and Baker, 2018)

(Microsoft,2025a)

Question 5

Group Members:

ST10194321: Jose Gonzalves

ST1034088: Quellon Naicker

Each group member has submitted their own self-reflection and peer evaluation separately in a separate document.

Reference List

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