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| Binary abstract code patterns in cyan and magenta waves |
| IPMA6212  Assignments 2 |
| |  |  |  | | --- | --- | --- | | Matrix ninjas | 4/15/24 | IPMA6212 | |

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# Question 1

Android and iOS.

Q.1.1)

The need for this project arose from the recognition that many people are hesitant to report crimes or safety concerns due to fear of retaliation or a lack of trust in traditional reporting methods. This can be particularly true for victims of sensitive crimes or those who fear repercussions from the perpetrator.

This project specifically addresses the problem of underreported crimes and safety concerns within the community. By developing a mobile application that allows users to report anonymously, we aim to:

* **Increase reporting rates:** People who are hesitant to report through traditional channels may feel more comfortable using an anonymous reporting system. This can provide valuable information to law enforcement and help identify crime trends.
* **Empower victims:** Victims of crime, especially those of sensitive crimes, may feel more comfortable coming forward if they know their identity is protected.
* **Improve community safety:** By encouraging more complete reporting, authorities can better allocate resources and address specific safety concerns within the community.

Q.1.2)

A.) What is the technological trend?

The project focuses on the implementation of **cross-platform mobile application development**. This trend involves building a single application that functions on various mobile operating systems, typically

B.) Benefits for project timeline

Cross-platform development offers advantages in terms of project timelines:

* Reduced development time: A single codebase eliminates the need to build separate apps for each platform, saving significant time and resources.
* Unified codebase: Maintaining one codebase streamlines development and simplifies bug fixes and updates.
* Faster testing and development: Testing and deploying on both platforms becomes quicker due to the unified codebase.

C.) Potential risks

While advantageous, cross-platform development presents potential risks:

* Limited access to native features: Cross-platform apps might not have full access to features available to each native platform, potentially limiting functionality.
* Performance limitations: Cross-platform apps may not perform as well as native apps, leading to slower loading times or a less responsive user experience.
* User experience limitations: Adapting a cross-platform app to different platform UI’s might compromise the user experience compared to a native application.

D.) Benefit for users

Users benefit from cross-platform development in several ways:

* Wider accessibility: The application is accessible to users on both Android and iOS devices, increasing the potential user base.
* Simplified installation: Users only need to download the app once from their respective app stores, regardless of their device’s operating system.
* Consistent user experience: A single codebase ensures a largely consistent core functionality and user experience across both platforms.

Q.1.3)

A project charter typically outlines the project goals, scope, timeline, budget, and resources. The following are deliverables within the project charter:

Functional Requirements Document (FRD)

This document will detail the specific functionalities of the app related to anonymous crime reporting. It should outline features like:

* User registration (optional)
* Crime category selection
* Location reporting (anonymous, potentially using GPS or manual input)
* Incident description (anonymous)

Optional features:

* Anonymous photo or video upload for evidence
* Basic text message alert system for emergencies (if anonymity can be maintained)

Technical Requirements Document (TRD)

This document will specify the technical details needed for the app, focusing on anonymous crime reporting:

* Security: Encryption of reported information and secure data storage
* Backend infrastructure: Secure backend server to store and manage reported data

Optional features:

* Explore integration with existing crime reporting systems or law enforcement databases (while maintaining user anonymity during initial reporting)

Project Timeline

This document will outline key milestones for the project, considering anonymous reporting functionalities:

* Development phases: Break down the development process (design, development, testing, deployment) considering anonymous reporting features.
* Testing: Allocate time for thorough testing to ensure anonymity throughout reporting and data storage.

Budget Breakdown

This document will detail the estimated costs for developing the app, factoring in functionalities for anonymous reporting:

* Development effort: Estimate resources needed to develop anonymous reporting features, including security measures and backend infrastructure.
* Optional features: Factor in additional costs for any optional features related to anonymous reporting, like secure image/video upload.

Resource Allocation Plan

This document will identify team members involved in the project and their roles, ensuring expertise to handle anonymous reporting:

* Development team: Assign developers experienced in secure coding practices to build the anonymous reporting functionalities.
* Optional features: If including features like image/video upload, allocate resources with expertise in secure file handling.
* Security consultant (consider): Review app's architecture and ensure user anonymity throughout the process.

# Question 2

# Question 3

# Question 4

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# Question 5

Group name: Matrix Ninjas

Date: Monday, 15 April 2024

## Peer evaluation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of student being evaluated: | Never  0 | Seldom  1/2 | Frequently  1 | Always  2 |
| The student’s personal work | | | | |
| 1. The student contributed good ideas that added value to the project and produced high-quality work. |  |  |  |  |
| 1. The student performed their tasks in line with what was expected of them. |  |  |  |  |
| 1. The student managed their own time well and met deadlines. |  |  |  |  |
| The student’s work as part of a team (When relevant) | | | | |
| 1. The student accepted responsibility for a fair portion of the tasks and was an enthusiastic member of my team. |  |  |  |  |
| 1. The student helped others to be successful and worked well with other members of the team. |  |  |  |  |
| Weighting |  |  |  |  |
| Total |  |  |  |  |
| Comments: | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of student being evaluated: | Never  0 | Seldom  1/2 | Frequently  1 | Always  2 |
| The student’s personal work | | | | |
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| Total |  |  |  |  |
| Comments: | | | | |

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| Weighting |  |  |  |  |
| Total |  |  |  |  |
| Comments: | | | | |

## Self-evaluation

# Group Name: Matrix Ninjas

## Group Member List:

* Mehluli Ofentse Booi: ST10028039-Group leader
* Milani Figlan: ST10195500

# References

**There are no sources in the current document.**