**Question 1**

**Q.1.1**

The main objective of this project is to provide an easily accessible application for crime reporting and management system, allowing users to anonymously report instances involving safety issues or crimes if they so choose. This method reduces manual labor while ensuring appropriate security. To some extent, the obstacles are attempted to be eliminated or reduced by this proposed approach. The Crime Report System seeks to improve the current manual system and meet the needs of criminal justice officials by keeping sensitive data and information for extended periods of time and enabling simple access to it.

**Q.1.2**

The technological trend implemented in development was the Block chain trend.

Block chain is a technique for storing data that makes it difficult or impossible for outside parties to modify, hack, or corrupt the system. A distributed ledger, or Block chain, is a network of computers that replicates and divides transactions between themselves.

Safe Zone app in terms of timelines benefits

Every transaction is permanently recorded and additional blocks can be added, but they cannot be erased. This feature fosters greater trust amongst users. Blocks can only be created and accessed by authorized entities. The only people with access rights are reliable partners. Only when a transaction has been verified by every relevant entity is the shared ledger updated. Due to its ability to improve the authenticity of data shared across a network, block chain has the potential to increase trust, security, and transparency among users that witness nearby crime activities.

Disadvantages.

Scalability.

Because block chain networks require a lot of processing power to validate transactions, they can be slow and inefficient. The processing and validation speed of block chain networks is put under pressure as the volume of users, transactions, and apps rises. Because of this, using block chain networks in applications that need for quick transaction processing is challenging.

Complicated technology

Because block chain is a complicated technology, its setting up and maintenance call for a high degree of technical skills. The depth of block chain technology could possibly result in implementation problems and difficulties.

User benefits

Safety.

When reporting a crime the users data is important and sensitive, and block chain has the power to completely change how you think on this essential data. The block chain assists in the prevention of fraud and illegal conduct by producing a record that is unchangeable and encrypted.

Availability.

Every organization needs to maintain a separate database. Block chain maintains data and transactions in different locations in an identical manner since it uses a distributed ledger.

Speed.

Block chain makes transactions much faster than certain traditional methods by doing away with gatekeepers and replacing a lot of the manual transaction methods.

**Q.1.3**

* App analysis and design
* Development phase
* Testing phase
* Project Management Plan for Software
* Working App