**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 06 May 2023 |
| Team ID | NM2023TMID21333 |
| Project Name | CrimeVision: Advanced Crime Classification with Deep Learning |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | Crime Classification | System should be trained on a diverse dataset of labeled crime data to learn patterns and features specific to each crime category |
| FR-2 | Real-Time Monitoring | Capable of processing and analyzing crime data in real-time |
| FR-3 | Model Training and Updating | Should have a mechanism to train and update its deep learning models periodically |
| FR-4 | Customizability and Adaptability | Should provide flexibility for customization based on specific crime classification requirements of different jurisdictions or organizations |
| FR-5 | Accuracy and Confidence Levels | Provide accurate crime classification results with high confidence levels |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | System should provide clear and concise results, visualizations, and error messages to facilitate user interaction |
| NFR-2 | **Security** | Ensure the privacy and security of the acquired crime data |
| NFR-3 | **Reliability** | Consistently provide accurate crime classifications with a high level of reliability |
| NFR-4 | **Performance** | Perform efficient deep learning computations |
| NFR-5 | **Availability** | Generate alerts or notifications to administrators or support staff in case of anomalies, errors, or degraded performance, enabling timely intervention and resolution |
| NFR-6 | **Scalability** | Handle a large volume of crime data |