ID	DESCRIPTION	Demo Implementation (Y/N)
FR -	The application shall provide the ability for users to login	Y
FR - 1.1	The application shall allow for users to enter their login details	Y
FR - 1.1.1	The application shall allow a user to enter their username	Y
FR - 1.1.2	The application shall allow a user to enter their password	Y
FR - 1.2	The application shall verify the user's login details against the registered users database	Y
FR - 1.2.1	The application shall verify the user's email	Y
FR - 1.2.2	The application shall verify the user's password	Y
FR - 1.2.2. 1	The application will display an error message upon three consecutive incorrect login attempts	N
FR - 1.2.2. 2	After three consecutive incorrect password attempts, the application shall implement a 30-second cooldown period before allowing another login attempt.	N
FR - 1.2.2. 3	The application shall reset the cooldown upon a successful login attempt	N
FR - 1.3	The application shall allow a user to login via facial recognition	N
FR - 1.3.1	The application shall allow a user to scan their face	N
FR - 1.3.2	The application shall verify a user's facial scan against the one stored in the registered user database	N
FR - 2	The application shall provide the ability to create new users	Y
FR - 2.1	The application shall allow for users to enter their user details	Y
FR - 2.1.1	The application shall allow for users to enter their name	Y

FR -	TI (1.1.4 0.120	
2.1.1.	The username must be between 8 and 20 alphanumeric characters.	Y
FR - 2.1.2	The application shall allow for users to enter their password	Y
FR - 2.1.2. 1	The password type data must be text of at least 8 characters and less than 20 characters	Y
FR - 2.1.2. 2	The password character type must include at least one number	Y
FR - 2.1.2. 3	The password character type must include at least one symbol	Y
FR - 2.1.2. 4	The password character type must include at least one lowercase letter	Y
FR - 2.1.2. 5	The password character type must include at least one uppercase letter	Y
FR - 2.1.3	The application shall allow for users to enter their mobile number	Y
FR - 2.1.3.	The mobile number type data must be exactly 8 digits	Y
FR - 2.1.3. 2	The mobile number must contain only numeric characters	Y
FR - 2.1.3. 3	The mobile number must only be applicable within the area code of +65	Y
FR - 2.2	The application shall allow a user to store their facial pattern	N
FR - 2.3	The application must store the user details in the registered users database	N
FR - 3	The application shall provide the ability for users to automatically file a report to the nearest police station to their location	Y
FR - 3.1	The application shall locate the nearest police station to the user's location	Y

3.1.1 Idaxing capability of the tach shark flown location. FR - 3.1.2 The application shall access the Singapore Police Force Establishments (2018) (GEOJSON) database FR - 3.1.3 The application shall calculate the distance from the user location to the police establishments FR - The application shall display the most common crimes at the user's location FR - 3.2.1 The application shall have real-time tracking capability of the user's last known location. FR - 3.2.2 The application shall access the Cases Recorded For Selected Major Offences, Annual database FR - 3.2.2 The application shall display the most common major offences in that area FR - 3.2.3 The application shall display a predefined 'Other' offence FR - 3.2.4 The application shall provide the ability for users to make a police report
FR - 3.1.2 Police Force Establishments (2018) (GEOJSON) database FR - 3.1.3 The application shall calculate the distance from the user location to the police establishments FR - The application shall display the most common crimes at the user's location FR - 3.2.1 The application shall have real-time tracking capability of the user's last known location. FR - 3.2.2 Recorded For Selected Major Offences, Annual database FR - 3.2.3 The application shall display the most common major offences in that area FR - 3.2.4 The application shall display a predefined 'Other' offence FR - The application shall provide the ability for
FR - 3.1.3 from the user location to the police establishments FR - The application shall display the most common crimes at the user's location FR - 3.2.1 The application shall have real-time tracking capability of the user's last known location. FR - 3.2.2 The application shall access the Cases Recorded For Selected Major Offences, Annual database FR - The application shall display the most common major offences in that area FR - 3.2.3 The application shall display a predefined 'Other' offence FR - The application shall display a predefined 'Other' offence FR - The application shall provide the ability for Y
3.2 common crimes at the user's location The application shall have real-time tracking capability of the user's last known location. The application shall access the Cases Recorded For Selected Major Offences, Annual database FR - The application shall display the most common major offences in that area FR - The application shall display a predefined 'Other' offence FR - The application shall provide the ability for Y
tracking capability of the user's last known location. The application shall access the Cases Recorded For Selected Major Offences, Annual database The application shall display the most common major offences in that area The application shall display a predefined 'Other' offence The application shall provide the ability for Y
FR - 3.2.2 Recorded For Selected Major Offences, Annual database FR - The application shall display the most common major offences in that area FR - The application shall display a predefined 'Other' offence FR - The application shall provide the ability for
3.2.3 common major offences in that area FR - The application shall display a predefined 'Other' offence FR - The application shall provide the ability for Y
3.2.4 'Other' offence FR - The application shall provide the ability for
3.3 users to make a police report
FR - 3.3.1 The application shall provide users the ability to choose a particular offence from the display
FR - 3.3.2 The application shall generate a standardised automated message when an offence is chosen
FR - 3.3.2. The message shall contain the user's details Y
FR - 3.3.2. The message shall contain the offence chosen
FR - The application shall convert the message to SMS
FR - The application shall request for user confirmation
FR - The application shall send the SMS to the N

3.3.5	nearest police precincts	
NFR - 1	The application shall authenticate a user within 2 seconds of submitting login credentials	N
NFR - 2	The application shall process police report submissions within 5 seconds under normal network conditions	N
NFR - 3	The application shall support up to 10,000 concurrent users without a delay in response time	N
NFR - 4	The system shall update the user's location every 5 seconds when tracking is enabled	N
NFR - 5	The database should handle at least 100,000 registered users without performance issues	N
NFR - 6	The application shall encrypt all user passwords	N
NFR - 7	The application shall implement two-factor authentication (2FA) for user login	N
NFR - 8	The application shall enforce account lockout for 5 minutes after 5 failed login attempts	N
NFR - 9	The application shall support English as the default language, with options for Chinese, Malay and Tamil	N
NFR - 10	All error messages shall provide clear, non-technical explanations of issues and suggest corrective actions	N
NFR - 11	The system shall be compatible with both Android and iOS	N
NFR - 12	The codebase shall follow MVC (Model-View-Controller) architecture for maintainability	Y
NFR - 13	The application shall comply with Singapore's Cybersecurity Act for handling sensitive data	N