USER Guide – Verdict

Case Management App

Version 1.0

Platform: Windows (Built with .NET MAUI)

Developer: Marne Vermaak 48073253

Project Title: Project 3 CMPG 212

1. Introduction

Verdict is a lightweight, local-case management application designed to help agents manage, visualize, and track the progress of criminal investigations. The app provides a timeline-based structure for entries such as interviews, evidence collection, suspect tracking, and arrests.

2. Getting started

2.1 Launching the application

- Run application through Visual Studio or via the installed executable.
- Ensure your system supports MAUI apps and that you have .NET 8+ installed.

2.2 Signing In

- If you are a returning agent:
    - Log in using Police Badge number and password
- If you are a new agent:
    - Select Sign Up
    - Create a profile
    - Net log in

3. Dashboard overview

Once you are logged in, you will see the Dashboard. This page provides access to all major features.

Feature	Icon	Function
New Case	📝	Create a new case with description and identifier
Continue Case	📁	Add entries (e.g., suspects, evidence, arrests) to ongoing cases
My Cases	📋	View all cases assigned to your badge number
All Cases	📋	View all open and closed cases in the system
Agents	👨‍💼	View, edit, or delete registered agents
Arrested Suspects	👮	View all suspects marked as arrested — acts as a police record
Sign Out	📙	Log out and return to the welcome screen

4. Case Management

4.1 New Case

- Enter new Case ID
- Description
- Your Agent Badge Number
- Tap Save to create the case

4.2 My Cases / All Cases

- View case details, including creation date, assigned agent and description
- Tap View Timeline to see a visual representation of the investigation's entries

5. Continuing a Case

Supported entry types

Entry Type	Required Info
Interview	Date, Summary, Details
Surveillance	Date, Summary, Details
Suspect	Name, Surname, Role (Suspect, Victim, Witness), Summary, Details

Entry Type	Required Info
Evidence	Type, Summary, Details, (Optional) Linked Suspect, File Path
Arrest	Choose existing suspect, Summary, Details, (Optional) Mark case as closed

Additional Features

- Niew Evidence and View Suspects buttons to inspect related data
- Optionally mark the case as closed when arresting a suspect

6. Timeline Viewer

- Tap View Timeline from any of the user's cases to see entries in a visual left-to-right timeline (scrollbar at the bottom)
- Each entry appears as a card with the date, type, summary and details,
- Scroll horizontally to follow the investigation progress

7. Agents and Admin

7.1 Viewing Agents

- See all registered agents sorted by name

7.2 Editing Agents

- Edit an agent's name, badge number, or password
- If badge number is changed, all linked cases are updated accordingly

7.3 Deleting Agents

- Choose whether to also delete all the agent's related cases and data (entries, evidence, suspects)

8. Arrested Suspects View

- Access the Arrested Suspects screen from the dashboard
- See a list of all suspects marked as arrested, including name, surname, and role
- This acts as a central "jail record" for solved investigations

9. Sign Out

- Tap 🟧 Sign Out on the Dashboard

- Clears session data (e.g., stored badge number)

- Returns user to the Welcome screen

10. Technologies Used

- .NET MAUI – Cross-platform application development

- C# and XAML – Code and UI logic

- SQLite – Local database storage of cases, entries, agents, suspects, and evidence

- MAUI Essentials (Preferences) – For login session management

- MVVM – Architectural pattern used for clean code organization

11. Limitations and Future Improvements

Current Limitations	Future Features
Local storage only (no cloud sync)	Add cloud database sync (Firebase, Azure)
Manual database backup	Add export/import data feature
No photo capture or file attachment preview	Allow image evidence viewing and uploads
Not tested on Android/iOS yet	Publish and test on mobile platforms