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Criminal Investigation Tracker with Suspect Prediction
Vision
Version 1.0

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Revision History

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1. Introduction

1.1 Purpose

The purpose of this document is to collect, analyze, define high-level needs and features of the Criminal Investigation Tracker, and to give a general idea about the application to be developed in terms of the actors involved, how they can interact with the application and what its functionalities are. It focuses on the capabilities needed by the stakeholders and the target users, and **why** these needs exist. The details of how the Criminal Investigation Tracker fulfills these needs are detailed in the use-case and supplementary specifications.

This application aims to help mainly the detectives and investigators solve cases of crime by speeding up the process of finding suspects and trying to make as accurate assumptions as possible with the information available. Depending on the input provided by the users, and whether it is sufficient or not for making assumptions, the output could be more or less relevant for solving a crime, not relevant at all, or no suspect can be found.

1.2 Scope

The Criminal Investigation Tracker should be able to keep track of all the cases, criminal records and lists of suspects of a given agency, as well as the status and description of each case, based on which the suspect prediction can be made (by analyzing both the physical description of each suspect and the logical reasons for which they might have committed the crime, and checking whether the details of the crime match the information about each suspect). The application has an administrator that can add a new case, update the status of a case, add or ban users from using it. The other users can be the police officers, investigators and detectives, which can log into their accounts and see all the cases, but can only access and add information to those cases they had been assigned to.

1.3 Definitions, Acronyms, and Abbreviations

CSI is the abbreviation for Crime Scene Investigation. The **CSI unit**, which consists of forensic investigators, collect and examine evidence present at crime scenes. They typically walk the scene of a crime searching for useful evidence such as fingerprints, hairs, or fibers, for later analysis at a crime lab. [2]

1.4 References

- [1] "How Crime Scene Investigation Works", Julia Layton: <https://science.howstuffworks.com/csi.htm>
- [2] "Criminal Investigation Tracker Software with Suspect Prediction":
https://study.com/articles/How_to_Become_a_Crime_Scene_Investigator_Career_Roadmap.html
- [3] "Vision Document": <https://www.utdallas.edu/~chung/RE/Presentations10F/Team-hope/1%20-%20VisionDoc.pdf>

1.5 Overview

In the following chapters, I will describe the stakeholders and the actual users of the application, as well as their environment and requirements for this application. Another thing worth mentioning is stating what the problem the application intends to solve is, and a brief description of the final product and its non-functional requirements.

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2. Positioning

2.1 Problem Statement

The problem of	Keeping track of all the cases an agency has to deal with, and finding possible suspects as soon as possible for each one of them
affects	Crime investigators, police officers, detectives involved in solving the crimes they are assigned to
the impact of which is	Getting disorganized, hasty and buried in too many cases, tasks and details to remember all of them and properly deal with each case.
a successful solution would be	An application which allows tracking the cases of crime a certain agency is involved in solving and which yields a list of suspects for each case, provided that it is provided with correct and sufficient information, as small as possible, and the criminal is actually in that list.

2.2 Product Position Statement

For	Crime investigators, police officers, detectives
Who	Work on solving cases of crime as fast and efficient as possible
The Criminal Investigation Tracker	is a Government-related product
That	Aims to make the process of finding suspects easier, faster, and more efficient
Unlike	-
Our product	Is new on the market, because this kind of work is usually done by investigators and detectives. This tool wants to come as a helper in the process of investigation, to speed it up and offer an objective perspective to those involved in solving crimes.

3. Stakeholder and User Descriptions

3.1 Stakeholder Summary [3]

Name	Description	Responsibilities
Requirements Engineers	This stakeholder works with customers and stakeholders to translate needs into requirements.	This stakeholder works with customers and stakeholders to translate needs into requirements.
Software Architect	This stakeholder is a primary lead in the development of the application	Responsible for overall architecture of the system, and guides overall design and implementation of system.
Project Manager	This stakeholder leads development of the application	Plans, manages and allocates resources, decides priorities, coordinates interactions with

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		customers and users, and keeps the project team focused.
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3.2 User Summary

Name	Description	Responsibilities	Stakeholder
Police officer	Primary end user of the system	Uses application to see the progress of the investigations they're involved in, and to provide it with useful information.	Self
Forensic investigator	Primary end user of the system	Uses application to see the progress of the investigations they're involved in, and to provide it with useful information.	Self
Detective	Primary end user of the system	Uses application to see the progress of the investigations they're involved in, and to provide it with useful information.	Self

3.3 User Environment

The Criminal Investigation Tracker is intended for the agencies that deal with solving cases of crime, in which the police officers, forensic investigators and detectives need to keep track of the progress of the investigations they are assigned to. The number of people involved in each investigation might differ, depending on how many of them are available and required for a certain case. Investigations might take a different amount of time, depending on the difficulty of the case, how fast relevant information can be obtained, how efficiently the people work on a case, etc. For the moment, the application can only be used on computers running Windows, but it might extend to other platforms as well, but only at the office, where security of the information stored by the app is one of the most important issues and access to it is rather difficult. The Criminal Investigation Tracker doesn't need to be integrated with any other application, it runs on its own.

4. Product Requirements

In terms of platform, it is required that the application can be used on a computer running at least Windows 7. Other requirements involve: JDBC connector, DAO design pattern (for Database logic), Table Module design pattern (for Domain logic), client-server architecture.