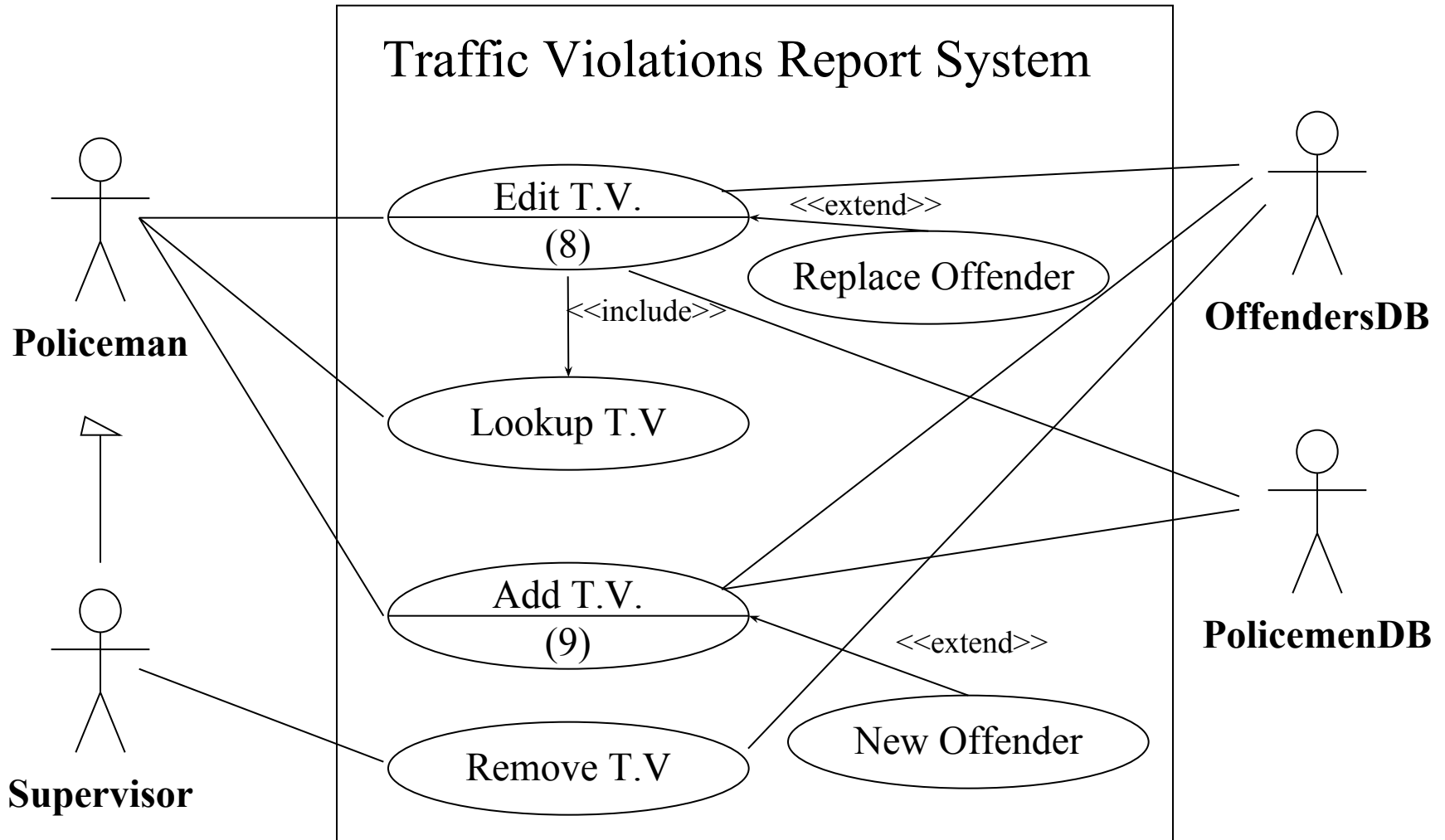


Example:

TVRS Use Cases

TVRS Use Case Model



TVRS - Remove TV

- Name: Remove Traffic Violation
- Actors: Supervisor, OffendersDB.
- Goal: Remove an existing Traffic Violation
- References to requirements: 1.2.3, 1.3.2.4, ...
- Pre-conditions:
 - Normal Course of “Lookup Traffic Violation” UC is completed, and the details of an existing Traffic Violation are displayed
- Description:
 1. Supervisor calls for deletion of the chosen Traffic Violation
 2. TVRS prompts Supervisor for confirmation

External
System

TVRS - Remove TV

3. Supervisor confirms
 4. TVRS requests OffendersDB to delete the Traffic Violation from the offender's record
 5. OffendersDB approves that the Traffic Violation has been deleted
 6. TVRS allows Supervisor to look up a new Traffic Violation as described in the "Lookup Traffic Violation" UC
- Post-conditions:
- Removed Traffic Violation is no longer stored in the TVRS.
 - Traffic Violation is removed from the offender's record in the OffendersDB
 - "Lookup Traffic Violation" form is displayed

TVRS - Remove TV

— Exceptions:

- 3a: Supervisor cancels:

3a1: TVRS Continues to item 6 without removing the Traffic Violation

- 5a: Traffic Violation is not removed from the OffendersDB

5a1: TVRS displays an error message describing the failure

5a2: TVRS continues to item 6 without clearing chosen Traffic Violation details, and without deleting the Traffic Violation



Goal is not fulfilled

TVRS - Add TV

(With planted mistakes)

- Name: Add Traffic Violation
- Actors: Policeman, PolicemenDB, OffendersDB,
~~Traffic Violation.~~ *TVRS*
- ~~Goal: Add a new Traffic Violation to OffendersDB.~~
- References to requirements: ...
- Pre-conditions:
 - ~~Pliceman tries to add Traffic Violation.~~
- *• The Traffic Violation Management window is displayed*
Description:
 1. ~~Policeman presses “Add” button~~
 1. Policeman calls for addition of a new Traffic Violation
 2. TVRS displays an empty Traffic Violation Details form
 3. Policeman enters violation details and calls for saving the new Traffic Violation

TVRS - Add TV

(With planted mistakes)

4. TVRS prompts Policeman for confirmation.
5. Policeman confirms

TVRS asks PolicemenDB

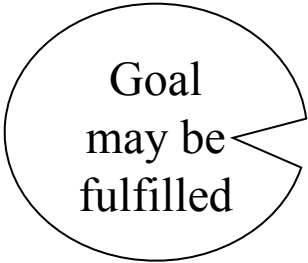
6. ~~PolicemenDB is asked~~ whether or not the policeman is known
7. PolicemenDB replies that the policeman is known
8. TVRS asks the OffendersDB whether or not the offender is known
9. *[Extention Point]* OffendersDB replies that the offender is known
- ...



TVRS - Add TV

(With planted mistakes)

- Post-conditions:
 - New Traffic Violation is stored in the TVRS
 - TVRS displays an empty Traffic Violation Details form
- Variations:
 - 5a: Policeman cancels
 - ~~5a1: TVRS shows error message and closes Traffic Violation Management window.~~
 - 5a1: TVRS continues to item 2 without clearing the traffic violation details entered by Policeman
 - 9a: OffendersDB replies that the offender is not known.
 - Described in Use Case “New Offender”
 - 7a: Policeman is not stored in the PolicemenDB
 - 7a1: TVRS displays an error message
 - 7a2: TVRS continues to item 2 without clearing Traffic Violation details entered by Policeman
 - ...



Goal
may be
fulfilled

TVRS - Add TV

(With planted mistakes)

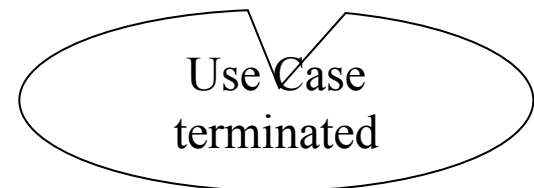
– Exceptions:

- 3a: Policeman cancels addition of the new Traffic Violation

~~3a1: TVRS continues to item 2 without clearing the traffic violation details entered by Policeman~~

3a1: TVRS displays the "Traffic Violation Management" window without adding the Traffic Violation

- ...



TVRS – New Offender

- Name: New Offender [extends “Add Traffic Violaton”]
- Actors:
- Goal:
- References to requirements: ...
- Pre-conditions:
 - Offender is not stored in the OffendersDB

TVRS – New Offender

- Description:

- 9a: OffendersDB replies that the offender is not known. [Add Traffic Violation]

- 9b: TVRS displays an empty “Offender Details form”

- 9c: Policeman enters offender details and calls for saving the new details

- 9d: TVRS prompts Policeman for confirmation

- 9e: Policeman confirms

- 9f: TVRS requests OffendersDB to store the new offender

- 9g: OffendersDB replies that offender was stored successfully

- Post-conditions:

- New Offender is stored in the offenders DB

- ...