

# Programming Project / C++ - Incident Reporting System

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## I. TASK DESCRIPTION

Student 1 is responsible for interacting with the report system:

- Filtering reports
- Creating the overall list

Student 2 is responsible for managing the report system:

- Viewing reports
- Adding, deleting, modifying reports (in case of duplicates or mistakes)

## II. DATA STRUCTURES USED BY THE TEAM

The following classes will be used:

- Incident: string location, string name, int quantity (in case of multiple incidents in a row)
- Date: int day, int month, int year
- Report: Incident[] incidents, Date date

## III. FILE STRUCTURE

The following files will be used:

Incidents.csv

A file that will have all the incidents. They will be filtered by the incident name and will have the form:

<incident name>

<location><number (if more than one happened at the same time)><date>

## IV. INTERACTING WITH EXECUTABLES

Application 1 will offer the following options:

- ./app\_1.exe view\_all\_incidents

To see all incidents

- `./app_1.exe view_all <incidents> (optional) {<location> <date>}`

To filter incidents by name; also optionally by location and/or date

Application 2 will offer the following options:

- `./app_2.exe add_incident <incident><number><location><date>`

To log in a new incident

- `./app_2.exe delete_incident <incident><location><date>`

To delete an incident

- `./app_2.exe modify_incident <number> <incident> <location> <date>`

To modify the number of the incident

- `./app_2.exe view_incidents`

To view placed incidents