

A Tourist Guide for Traffic and Litter Violations

Following the MVC architectural pattern, you should use Java Servlets/JSPs/HTML to develop a tourist guide for traffic and litter violations in a city. The application should do the following:

Actor: Tourist:

1. The tourist should be able to view a city and see information about safety and cleanliness.

Actor: Reporter (could be any user)

1. The user opens the home page
2. The user selects a button or link to report a violation
 - a. A new form will open and the user should enter the following:
 - i. Date (automatically entered)
 - ii. Enter phone number (required field)
 - iii. Country (required field) [dropdown list]
 - iv. City (required field) [dropdown list, based on the country]
 - v. Upload a picture/video – max 20 MB- of the violation (required field)
 1. You can save the picture/video to the database or save a link to the file.
 - vi. Select the type of violation: (required field)
 1. Red light crossing
 2. Running a stop sign
 3. Jaywalking
 4. Littering
3. The user then submits the report

Actor: Admin

1. The admin checks the reports and approves/disapproves them
2. If the same user (phone number) reports false violations more than 3 times, the user will be blocked.
3. A violation will expire after 1 month.
4. An expired violation is (inactive) and will not be counted in deciding the status (see next).

Actor: System

1. If 10 active traffic light violations were reported in the same city, then this city is considered **Dangerous**.
2. If 10 active stop sign violations were reported in the same city, then this city is **Dangerous**.
3. If 10 active Jaywalking violations were reported in the same city, then the residents of this city are **Insane**.
4. If 10 active littering violations were reported in the same city, then this city is considered **Dirty**.

- Each city may be Clean or Dirty
- Each city may be Safe or Dangerous
- The residents of the city may be Sane or Insane

- ➔ You can add different countries and cities to the database.
- ➔ You need to provide test cases that cover all the scenarios.