Roll no : 153179

Scenario

Citizens can log onto a website and report the location and severity of potholes. As potholes are reported they are logged within a “public works department repair system” and are assigned an identifying number, stored by street address, size (on a scale of 1 to 10), location (middle, curb, etc.), district (determined from street address), and repair priority (determined from the size of the pothole). Work order data are associated with each pothole and include pothole location and size, repair crew identifying number, number of people on crew, equipment assigned, hours applied to repair, hole status (work in progress, repaired, temporary repair, not repaired), amount of filler material used, and cost of repair (computed from hours applied, number of people, material and equipment used). Finally, a damage fi le is created to hold information about reported damage due to the pothole and includes citizen’s name, address, phone number, type of damage, and dollar amount of damage. PHTRS is an online system; all queries are to be made interactively.

Requirement

Write use cases for above scenario.

Descriptive Use Cases of Scenario

Use case Title : Online reporting system of Pothole

Primary Actor : User

Level : User Goal

Stakeholders : Users , Public workers department, Maintainence team

Pre-condition:

1. User must have internet access.

2. User should be logged in.

Trigger: User encounter a pathole and decide to report it.

Scenerio:

1. User looks for “public works department repair system” to report the pothole.

2. Web application asks for information e.g: street address, scale size, district, location and repair priority.

3. User will enter all asked information and submit it by clicking on submit button.

4. Details of pothole related to user complaint will be identified.

5. Pothole record will saved by street address.

6. Complaint id will be assigned.

7. Work order will be generated to check the progress status of repairing by an id number.

8. User have access to information like material, hours allocated for repairing, repairing crew, and complaint id.

9. Web App will ask for any damage and its cost.

10. A damage file will generated that will hold all information of reported damage.

Risks

1. Users could exagerate damage

2. If the system is down so the information could be lost

3. Too much traffic on same website.

4. Data will be lost if server is not working properly.

5. Information is not submitted properly.