153199

Warda sajjal

Bscs 5th

**The department of publics works for a large city has decided to develop a web based 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 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 crew, equipment assigned hour applied to repair, hole status (work in progress ,repaired temporary repair, not repaired)amount of filter material used, and cost of repair (computed from hours applied, number of people ,material and equipment used ).finally a damage file is created to hold information about reported damage due to the pothole and include citizen name address, phone number, type of damage and dollar amount o damage . PHTRS is an online system; all queries are made to be made interactively.**

1. **Draw a UML use case diagram for the PTHRS system you’ll have to make a number of assumptions about the manner in which a user interacts with this system.**
2. **Develop a class model for the PTHRS system.**

**Solution:**

**Use case**: Report

**Primary actor**: user

**Goal in context**: report a pothole and any associated damage.

**Precondition:** user is logged in.

**Triggers:** user encounters a pothole and decides to report it.

**Scenario:**

1. User clicks to report pothole.
2. The application displays a form with the following information location in street severity, address of pothole.
3. Users fill his or her information into the fields.
4. Users clicks next
5. Application prompts user for information regarding type of manage done(if any ) and how much damage (in dollars)
6. Users fill out the information
7. User push to submit the form
8. Application stores information that user entered, along with users information such as name, address and phone number
9. Information is logged on website and a damage file is generated for it

**EXCEPTIONS:**

* User could log a lot of bad information that would cost a lot to investigate.
* Users could exaggerate damage.
* If the system goes down, records could be lost and the crews won’t be able to access the information
* End users don’t use system
* Too many users use system
* Funding could be lost
* Deadline will be tightened
* Customer will change requirements

**Frequency of use:**

Users use many times per day

**Channel to actor:**

Computer

**Secondary actors:**

Administration

**Channel to secondary actors:**

Computer