Software Engineering – SE 225

Assignment

BSCS~Fall-15~ [5th semester]

Submission deadline: Thursday, October 12th, 2017

Name: Muhammad Omer Affan

Roll# : 153157

Course Instructor: Sir Ahmed Mohsin

Grade\Points:_____

Question:- *Write a textual use case for the following scenario.*

The department of public works for a large city has decided to develop a Web-based pothole

tracking and repair system (PHTRS). A description follows:

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 file 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.

Answer:-

Use Case: PotholeReporting
Primary Actor: User
Goal in Context: report pothole and any associated damage
Precondition: User is already logged in
Trigger: User confronts a pothole and decides to report it

Scenario:

1. User: clicks 'Report Pothole'
2. The application displays the following information on a form: Location in street, Severity, Address of Pothole
3. User: fills up information about himself/herself into the fields of Report that is to be generated
4. Application then prompts user to enter details of type of damage done and approximate damage cost (in local currency value)
5. User: fills out the information
6. User: pushes submit
7. Application stores information that User entered, along with User's information, such as name, address, and phone number
8. Information is logged on the website and a damageInfoFile is generated for it.

Risks

- Users could log a lot of inadequate information, that would lead to an investigation (costing a considerate amount)
- If the system goes down, records could be lost and the crews won't be able to access the info
- Users might exaggerate damage
- End-Users don't use system
- Too many Users use system
- Funding could be lost
- Deadline will be tightened
- Customer will change requirements