A application of systematic, disciplined and quantifiable approach to development, operational and maintenance of software; that is the application of engineering to software  
  
Highlight pink: Actors

Yellow: Use Case

-You must infer where an <<include>> must be, eg calc cost **before** repair completed.  
-Major or minor is extends.  
-depending on severity is <<include>>

-Maintance of Roads will be a subsystem.

-“Using” degradation is a dependency

Identify Actors: 2 drones, manager, civilians  
Identify sub-systems:

Operational Feesability - attempmt

The application for the customers will be very easy to use, as all they will need to do is be able to submit feedback. This will be just like other feedback/review process eg Google Reviews, making picking up the app not taking longer than a few minutes.  
  
The manager side is a bit more complex. They will need to compile feedback, make sure updates are occurring, and manage job cards. This will require at least an hour of training for identifying when repairs are needed, and how to issue the job cards. A trained professional who is already a pothole.  
  
The simplicity of the application will make it feasible for the use for the general public, and for a more trained manager(s).

**ACTORS CANNOT INTERACT WITH EACHOTEHR.**

**It is important to think of the flow of how the system will work.**

**Repair drone vs Repair Subsystem: Remember the subsystem is the middle ground between communication, is the actual thing calculating the cost of material.**

**Make sure arrows are correct. Make sure start/end node correct. Marked on each**

**Don’t add extra things not asked, ie rejecting a repair.**

**Notifications are normally receive/send signals.**

**Mark Breakdown:**

Do you have the start/end, correct arrows/correct notation.  
SwimLanes, correct number + correct swimlanes.  
Appropriate Actions. Correct activities, too many or too little?  
Logical Flows.

Q1.1

Word for word, both sides of the ;

1.2  
**If you give no application, you get 0!!!!**

Scenario Based model, as the use scenario has specifically described . Talk about how the steps have been described. Talk about how the council and civilians have met. Talk about he uprising and complaints, and how the meeting came about. From there the discussion, and the intelligent system that came about. Be descriptive. Why they meeting, how they meeting, the results.

Q 2.1  
Name and why use.  
2.2  
Where change is relevant, and identify where its needed in the story.  
  
2.3  
List the steps eg Communication, and how they are relevant to the story.  
Communication, where relevant in story, and how it will be used.  
Planning: ect…  
**Can use diagrams here**

**2.4**Advantage for SARS.  
Must be a characteristic of the model. Then must be applied to case study.  
  
2.5  
Disadvantage, why it is a disadvantage for SARS  
  
3.1  
3.3  
Who is needed for the system to operate  
What is needed for the system to operate: Drones  
what is a function of a drone, what do they do, types of drones, managers, features eg calc cost.  
At end talk about whether it is feasible or not.

4.1  
DO NOT mention speed, reliability, anything like that.  
eg Because SARS potholes could cause potential damage, the drones need to be available 24/7 to repair the potholes quickly.  
Must **apply to functional requirement.**