EXPERIMENT - 1

Software Engineering Lab

Aim

Write down the problem statement for a suggested system of relevance.

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Aim:
Write down the problem statement for a suggested system of relevance.

Theory:
The problem statement is the initial starting point for a project. It is basically a one to three-page statement that everyone on the project agrees with that describes what will be done at a high level. The problem statement is intended for a broad audience and should be written in non-technical terms. It helps the non-technical and technical personnel communicate by providing a description of a problem. It doesn't describe the solution to the problem.

The input to requirement engineering is the problem statement prepared by customer.

It may give an overview of the existing system along with broad expectations from the new system.

The first phase of requirements engineering begins with requirements elicitation i.e., gathering of information about requirements. Here, requirements are identified with the help of customer and existing system processes. So, from here begins the preparation of problem statement.

So, basically a problem statement describes **what** needs to be done without describing **how**.

Performance Instruction:

1. Choose any one project from given list.

2. Collect all requirements

3. Identify functionalities

4. Write a one to three-page statement that everyone on the project agree with that describes what will be done at a high level.

Output:

PROBLEM STATEMENT FOR B2C SYSTEM

This would be a B2C System with 3 interfaces: an interface of an individual seller or small business an interface of a customer, and an efficient delivery system.

Current B2B systems don't support intermediary help for product delivery or transfer so we would provide aid for the same. This would also create revenue and employee opportunities

We aim at automating many operations performed at delivering the item to the customer. In many b2c services that already exist trade is carried out entirely at personal levels, with the risks of leaking of personal information and product not reaching the customer.

This can be solved if the seller uses one of the partner courier's services. The seller can fill up an online request with all the details for their parcel, get the parcel picked up at home get the cost of the delivery instantly when the pickup person arrives and a tracking ID is shared with both the seller and customer. A feedback system can also be implemented on both the sender and receiver end.

Features

1. **E-commerce website (Interface for the customer):** where the seller could decide what they want to buy.

2. **Interface for Seller:** This module allows the seller to put up their product's ad on the market.

3. **Personalized Delivery System:** This module allows the seller and customer to use the generated Tracking ID to track the current status of the product.

4. **Login Process:** This module allows valid customers to access the functionalities.

5. **Product Enquiry:** This module maintains the product details of a particular product.

6. **Update Products:** This module allows the customer to update the product status of their previous products they uploaded for sale.

7. **Product adds:** This module allows the customers to add products they want to sell.

8. **Update profile:** This module allows customers to change their password/ profile/ location/ details and verify contact details.

9. **Deals:** This module allows customers to view the details of their products and browse to view someone else's.

Viva Questions

1. What is problem statement?

Ans.

A problem statement is a concise description of an issue to be addressed or a condition to be improved upon. It identifies the gap between the current (problem) state and desired (goal) state of a process or product. The first condition of solving a problem is understanding the problem, which can be done by way of a problem statement.

2. What are the benefits of writing problem statement?

Ans.

A problem statement is basically a statement that illustrates a clear vision and the overall method that will be used to solve the problem at hand. Usually used when doing research, a problem statement discusses any foreseeable tangible or intangible problems that the researcher may face throughout the course of the project.

3. Writing a problem statement, is really a beneficial for you in proceeding project?

Ans.

Yes, writing a problem statement should help in careful decision-making for project approval. Often, the problem statement will serve as the basis for the introductory section of a final proposal, directing the reader's attention to the issues that your proposed project will address.

4. Explain 5W's can be used to spark the problem?

Ans.

The Five 'W's are questions whose answers are considered basic in problem solving and information gathering. They are:

- Who

- What

- When

- Where

- Why

The 5 'W's can be used to spark the discussion about the problem. A problem statement expresses the words that will be used to keep the effort focused and it should represent a solvable problem.

5. What are steps that need to follow while writing problem statement?

Ans.

Steps that we need to follow while writing problem statement are:

1. Define the problem.
2. Reason for the problem's occurrence.
3. When the problem began or was first noticed.
4. Place of the problem's first occurrence or sighting.
5. The person or thing that the problem affects.
6. The sequence of events that resulted in the problem.