1. Introduction :
   1. Purpose of Document :

This is a requirement specifications document for an interface for facilitating the interaction between sellers and buyers. This interface can be used to notify seller of potential buyers and vice versa. This document describes the scope, objectives and goal of the project. In addition to describing non-functional requirements, this document models the functional requirements with the use cases and class models.

* 1. Project Summary :

Project name : Seller Buyer Interface.

Team Members :

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   1. Motive of the Project :

* The main motive of this project is to decrease the amount of time substantially the seller spends on finding suitable buyers.
* It notifies the buyer about the sellers available for a given product.
  1. System Purpose :
     1. Users :
* Customers :

Upon implementation of the new system customers will find site navigation, product identification and product seller.

* Product Sellers :

The interface will notify the seller with potential customers and their details.

* IT Department :

The department will be responsible for maintenance of the website, handling the servers and databases.

* + 1. Location :

This interface will be available to any potential customers using the internet. The product sellers will also be able to access the interface form any location and will be able to access restricted areas of the website through a password protection scheme.

* + 1. Responsibilities :
* Provide customers direct access to up-to-date product information.
* Helps customer find their ideal seller by showing information about all the sellers for a given product.
* Allow product sellers to maintain and update about their products information directly.
  + 1. Need :

This system is need in order to increase the reusability of a given product so as to help make it available to everyone at reasonable prices.

1. Functional Objectives :

* The system shall allow to search for a given product.
* The system shall provide data on the availability of the product.
* The system shall reflect a new and changed product description within x minutes of database being updated by the product seller. This will reduce the number of discrepancies for a given product.
* The system shall provide the contact information of the sellers for the product.
* The system shall authorize the registered users and provide an option for new users to register.
* The system shall allow search based on :

1. seller name
2. product name
3. location

* The system shall allow buyers to save a list of their favorite sellers.

1. Non-Functional Objectives :
   1. Reliability :

* The system shall be operational at least x% of the time.
* Down time after a failure should not exceed x hours.
  1. Usability :
* Any user having knowledge about the internet should be able to use the system.
  1. Performance :
* The system should be able to allow multiple simultaneous users to query the same search.
* The mean time to load a web page should not exceed x seconds.
  1. Security :
* The information about the user should be given only if the user agrees to it.
* The accounts of the users must be password protected.

1. Technology used :

* HTML
* CSS
* JS

1. The Use Case Model :
   1. Login User :

* Use case Name :
  + login user
* Summary :
  + In order to for the system to save the past transactions the user has made and his preferences.
* Flow :
  + The user starts when he wants to login.
  + The system requests username and password.
  + The user enters the username and password.
  + The system validates the information and prompts the user for invalid credentials.
  + For invalid credentials the system should allow the user to enter the credentials again or to reset his password.
* Prerequisite :
  + The user must be registered.
* Postconditions :
  + The user is able to access his account.
  1. Register user :
* Use case Name :
  + register user.
* Summary :
  + In order to remember the history of the user.
* Flow :
  + The use case starts when the user wants to register.
  + The system requests for user name and password.
  + The system validates for the availability of the user name and prompts for a new username if the given username is not available.
  + The system checks for a valid password. Ex . Capital letter must be present…etc.
  + The system should ask for contact information if the user wants to register as a seller.
  + If the user doesn’t fill a required field the system should prompt the user for the required data.
* Prerequisite :
  + none.
* Post condition:
  + The user can now access the data in the website.
  1. Product Review :
* Use case Name :
  + Product review.
* Summary :
  + Allows the Buyer to review the product received form the seller.
* Flow :
  + The Buyer receives the product.
  + The Seller updates that the product was delivered.
  + The system asks the user to review the product.
  + The system shall store the review and update it in the sellers profile.
* Prerequisite :
  + The Buyer should receive the product.
  + The Seller must update the status of delivery.
* Post conditions :
  + The review section of the seller’s profile gets updated.