

Software Requirements Specification

For

Used Goods Recycle cum Inquiry Management System

Prepared by,

Group 30

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1. INTRODUCTION :

1.1 Purpose :

This document gives a detailed description of the requirements for the “**Used Goods Recycle cum Inquiry Management System**” web app. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended to propose this software to consumer for their approval of the system .

1.2 Product Scope :

When students pass out from college , most of the time they can't take all their belongings to home. As a result lots of wastage have generated. Sometimes they sell some things to some retailers , but it causes involvement of third person. Secondly , when someone loses something or someone finds something in campus , they put all their queries on NITC mail. Although it's important to the person who has found it and the person whose it is but it's useless to all the others. So sometimes it's hard to find important mails inside a inbox full of queries and all. So to prevent involvement of third person or wastage of goods to recycle the used belongings and to prevent unwanted inbox filler we are going to develop an application which deals with both of these problems. Here in this app in one side students can put their used product's advertisement and those who found someone's belongings put their advertisement to find the owner. On the other hand those who want to buy used product in relatively low cost and those who has lost something can come and search their needs.

1.3 Document Conventions :

User	Someone who interacts with the web application.
Web Portal	A web application that provides facilities for advertisers and consumers.
Seller/Item founder	Someone who intends to sell/(return a lost item found by him /her) one or more item(s).
Buyer/ Lost Item owner	Someone who intends to purchase a product / Receive his/her lost item.

1.4 References :

<https://www.w3schools.com/sql/default.asp>

<https://stackoverflow.com/>

2. OVERALL DESCRIPTION:

2.1 Product Perspective :

This web application intends to target college students and help them eliminating the role of third party in the buying and selling of their used goods.

And also to help those students who lost their belongings to find them.

2.2 Product functions :

- Provide a user-friendly interface to ease the process of buying, selling and finding lost items.
- Sellers can advertise their products for a certain period of time.
- If a user wants to buy a product he can contact the seller through the contact number provided in database.
- The person who founds an unknown item can place an advertisement to inform the owner.

2.3 User classes and characteristics :

This application has 4 classes:-

- Customer – He/She is a user of the website who intends to buy product from a seller. A customer must have an account before he can make a purchase. All details of the customer is stored in a database.
- Seller – A seller is a user of the website who intends to sell items. Sellers must have an account before he/she can sell any item. All details of the customer is stored in a database. All products for sale under the seller is stored in another database.
- Founder - A founder is a user of the website who found an unknown item and intend to return it to it's owner.
- Owner - A person who lost any item can claim his/her belongings by contacting with founder directly through contact info provided in website.

2.4 Design and implementation Constraints :

The user interface shall be implemented any tool like Notes, Sublime text, etc on following languages:-

MySQL	MySQL is an open-source relational database management system
PHP	PHP is a general-purpose programming language originally designed for web development
HTML	HTML is the standard markup language for documents designed to be displayed in a web browser
CSS	CSS defines style rules in separate CSS files.

2.5 Assumptions and Dependencies :

- Users must be from the same college.
- Customers and sellers must have basic knowledge of computers and English language.
- All users must have an email and password for the account.
- Internet connection is mandatory.

3. EXTERNAL INTERFACES:

3.1 User Interfaces :

- The application has been designed to minimize the need for text input from the user.
- Error messages are clear and concise making it easy for the user to understand.

3.2 Software Interface :

- The application supports all major web browser that will make it convenient for the user to access our system.
- Development tool: PHP, HTML,CSS
- Database: MySQL

3.3 Hardware Interface :

- Since the application runs over the internet, the system must always be connected to the internet via a modem, etc.
- Backup storage for retrieval of data in case of unexpected failures.

3.4 Communication Interface :

- The HTTP protocol is used to facilitate communication over the internet.

4. SYSTEM FEATURES:

This section provides the functional overview of the application. The application will use PHP as front end and database MYSQL as back end. Functional modules implemented by the application will be as follows

4.1 Login :

- A registered user can enter their email-id and password to start their session.
- A user who is not registered can create a new account by entering name, mobile, email-id and a password.
- The user has an additional option to change password.

4.2 Post Advertisement :

- A seller or a lost item founder can post their advertisements under correct category whether they are seller or founder.
- The seller or lost item founder is also expected to post a brief description about the product, an image and expiry date for the advertisements.

4.3 Purchase or Find Products :

- A buyer can view products either by searching for the item.
- Owner of the lost item can view advertisements of found products and choose their one's.

5. OTHER FUNCTIONAL REQUIREMENTS :

5.1 Performance Requirements :

- The product shall be web based and has to be run from a up-to-date web server.
- The web app may take load time according to the speed of internet connection of the user.
- The load time also depend on type of hardware used at the time of running.

5.2 Safety And Security Requirements_ :

The user must not have any access of other user's data and hence will not be able to manipulate their data. There is no restrictions on users for read access. Both data and software should be backed up periodically. Users login ID(username) and password (may not be unique) should be unique.

Sign out Function would also provided for user to log out successfully from the system. The web browser should not show the password while entering by the user.

5.3 Software Quality Attributes :

- **Functional Suitability:** functional completeness, functional correctness, functional appropriateness;
- **Performance Efficiency:** time behaviour, resource utilisation, capacity;
- **Reliability:** maturity, availability, fault tolerance, recoverability;
- **Usability:** appropriateness, recognisability, learnability, operability, user error protection, user interface aesthetics, accessibility;
- **Security:** confidentiality, integrity, non-repudiation, accountability, authenticity;
- **compatibility:** co-existence, intero