**PROJECT FILE**

**Subject Code – MCA 205**

**JAVA PROGRAMMING**

**Submitted in partial fulfilment & the requirement of the award of the degree of**

**MASTER OF COMPUTER APPLICATIONS**

** **

**Submitted To: Submitted By:**

**Dr. Neha Verma Malhotra Ms. Bhaswati Kalita**

**Sr. Asst. Professor 42717704418**

**VSIT, VIPS MCA III B**

**Vivekananda Institute of Professional Studies**

***(Affiliated to Guru Gobind Singh Indraprastha University, Delhi)***

**2018-2021**

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**REFURBY**

**INTRODUCTION**

Refurby is a web application for recovering waste or scrap plastic and reprocessing the materials into functional and useful products. The goal of Refurby is to reduce high rates of plastic pollution while putting less pressure on raw materials to produce brand new plastic products. This application helps to conserve resources and diverts plastics from landfills or unintended destinations.

Plastics are durable, lightweight and inexpensive materials. They can readily be moulded into various products which find uses in a various of applications. Every year, more than 100 million tons of plastics are manufactured across the globe. A major portion of plastic produced each year is used to make disposable items of packaging or other short-lived products that are discarded within a year of manufacture. These two observations alone indicate that our current use of plastics is not sustainable. Consequently, the reuse, recovery and the recycling of plastics are extremely important.

The main purpose of Refurby is to provide another way for the customer to use the refurbished products. The application aims to provide approaches and strategies which will reduce the waste products from household, industries, company etc. The environment pollution will get reduced and waste products will get recycled or deployed.

**Problem Statement**

**Refurby**: Refurby is a window-based software which encourages plastic reusability and a step towards helping the society in reducing the plastic signature. All the functions or operations are GUI enabled and can be accessed by anyone. Hence makes it simple for the user to operate. Disposal of plastic waste has emerged as an important environmental challenge. Only 9% of the plastic produced gets recycled. This software allows reprocessing the plastic that has already been used and giving some new form to it. The user can sell old household plastic products. The main purpose of this software is to manage/process recycling process online. The request for recycling placed by the users is to be fulfilled by the admin. The software also deals with a retrieval side where the user can purchase the refurbished products. The user can do online shopping for recycled products.

**Prototype Model:**

The prototyping model is especially useful when the exact technical solutions are unclear to the development team. A prototype can help them to critically examine the technical issues associated with the product development. The lack of familiarity with a required development technology is a technical risk. This can be resolved by developing a prototype to understand the issues and accommodate the changes in the next iteration.

**This system has been made using prototype model because of the undreamt requirements that the user proposed for their own convenience, to have more information in hand and eventually for a smooth functioning of the system.**

**Phases of Prototyping Model:**

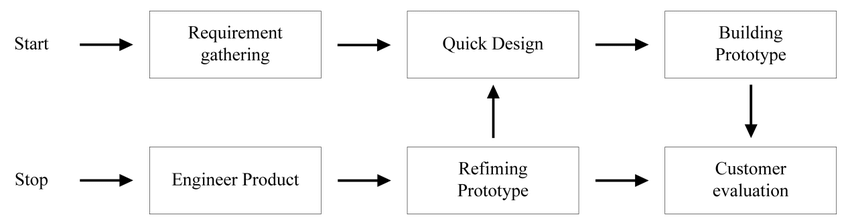
•**Prototype Development**

Prototype development starts with an initial requirements gathering phase. A quick design is carried out and a prototype is built. The developed prototype is submitted to the customer for evaluation. Based on the customer feedback, the requirements are refined and the prototype is suitably modified. This cycle of obtaining customer feedback and modifying the prototype continues till the customer approves the prototype.

**The prototype design of the software system is provided, which has all the modules covered and also has separate views for every class of user. An assistant, doctor, manager and the patient will have different views for operation all together.**

• **Iterative Development**

Once the customer approves the prototype, the actual software is developed using the iterative waterfall approach. In spite of the availability of a working prototype, the SRS document is usually needed to be developed since the SRS Document is invaluable for carrying out tractability analysis, verification and test case design during later phases.



**USE CASE DIAGRAM**

ADMIN

BUYER

SELLER

Buy Stuff

User Choice

User form

Admin Panel

Sell Utensils

Sell Toys

Sell Others

Login

**DFD Level 0**

Buy

Billing

Sell Product

Login

Search product

Bill generation

Product request

Admin

Seller

Buyer

**REFURBY**

Login request

Submit product

**DFD Level 1**

login

**Buy**

Generate report

Request

Sells

Sells

Acknowledge

Sell\_utensil

Sell\_utensil

Sells

Sell\_toys

buys

Report Details

Request

Acknowledge

Acknowledge

**Admin**

**Sell\_others**

**Report**

**Sell\_utensil**

**Sell\_toys**

**Buyer**

**Seller**

Request

**Login**

**Software Requirement Specifications**

**Introduction**

The following subsections of Document should facilitate in providing the entire overview of the system “Refurby” under development. This document aims at defining the overall software requirements for customers. Efforts have been made to define the requirements of the system.

**Purpose:**

* + This software is to maintain Refurby database and to make the work easy for both ends:
    1. User: will login in the system and access the panels to either buy or sell plastic stuff.
    2. Admin: will be managing all the details as required.
  + Software will have all the details of products, selling products and buying products.
  + Selling of the Product of different category by the seller.
  + Maintaining buying and selling records.
  + Generating bills.

**Scope:**

* + The proposed software system is Refurbishing the old products in to brand new and reselling the particular product to get reused. The system will be used to store info of the products for future usage.
  + The current system in use is paper based system.
  + Intension of the system is to reduce overtime pay, replace manual data storing and to give customers a better GUI environment.

**Definition, Acronyms, Abbreviations: -**

* + DFD: – Data Flow Diagram
  + SQL: – Structured Query Language
  + SRS: – Software Requirement Specification
  + BUYER: - One of the end user of the software system. The Buyer is the who will be buying the products from the software.
  + SELLER: The seller is the one who will be selling it’s goods to the Refurby in different category as stated in the software.
  + ADMIN: The manager is the one who will keep track of buyer, seller, updation to deletion, approval of the product and Report generation.

**Overview**

The rest of this SRS document describes the various system requirements, interfaces, features and functionality in detail.

**Overall description of Proposed System**

**Product Perspective**

The software will be windows-based, self-contained and independent software product. It will provide a simplified and user friendly interface which makes it reliable. The current system is not very much efficient.

**Product functions**

The system will allow access only to authorized users with specific roles (Assistant). Depending upon the user’s role, he/she will be able to access only specific modules of the system.

A summary of the major functions that the software will perform:

* A login facility for enabling only authorized access to the system.
* Users will be able to sell or buy goods and look for their generated report.
* The system will show the real time Product status.
* An Message feature to the user if the report has been generated.

**User Characteristics**

* **Educational Level:** The user should be comfortable to understand English.
* **Technical Expertise:**The user should be comfortable with the basic functionality of computer and the software system.

**Specific Requirements:**

**Hardware Interfaces**

* **System:**Intel core i3
* **Hard Disk:** 2TB
* **RAM:** 4GB.

**Software interfaces**

* **Operating system:** WINDOWS
* **Front End:** NETBEANS 8.2
* **Back End:** SQL SERVER

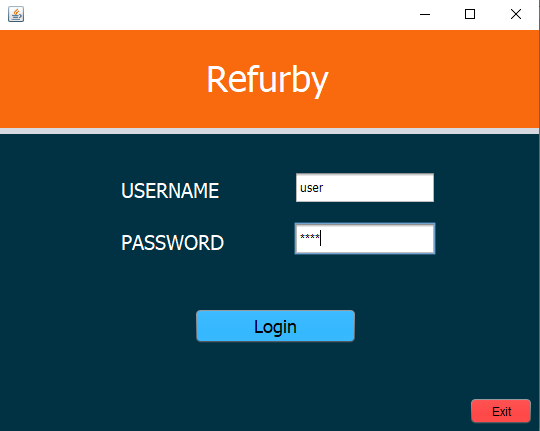
**Implicit Requirements**

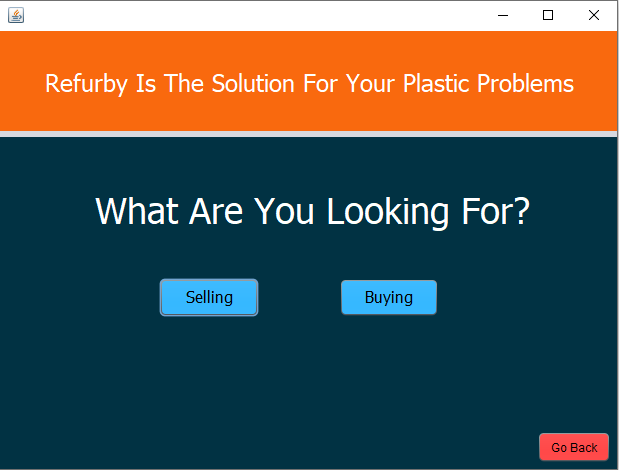
1. A software system which would be a selling the Plastic goods (After Refurbishment) and buying refurbished goods (For the users).
2. There should be a menu driven view for all levels of user for easy flow of system and understanding
3. The system should be a WINDOWS based system which should let the user to operate.
4. The reports generated would be uploaded to the systems which can be accessed by the users anytime.
5. Initially, the payment model proposed is COD. The payments would be collected at the time of delivery of the product.
6. The system design should be user and admin based.
7. The system should be well connected and should be easy to navigate within.
8. There should be one single login form with different validating fields for User and Admin.
9. The User should get the options to buy or sell (Old Plastic Stuff and Refurbished Plastic Stuff respectively).
10. The buyer panel must let the user to choose the product of its choice and view it.
11. The Admin should have the right to access any part of the software.
12. The Admin should be able to add or delete product once it is refurbished for selling purpose.
13. There should be a buy button to place order for the refurbished good for the user.

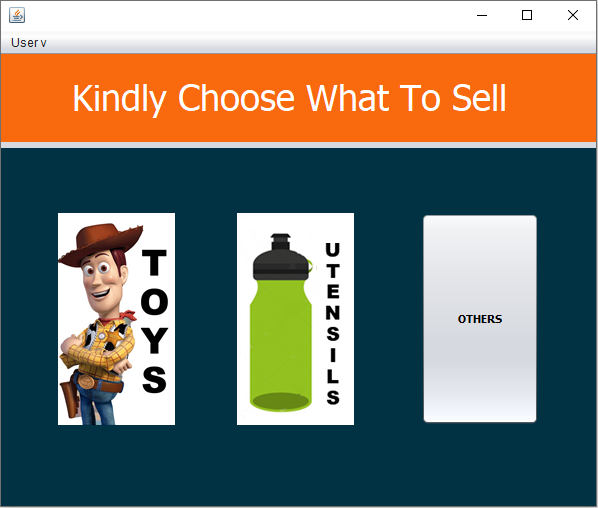
**Explicit Requirements:**

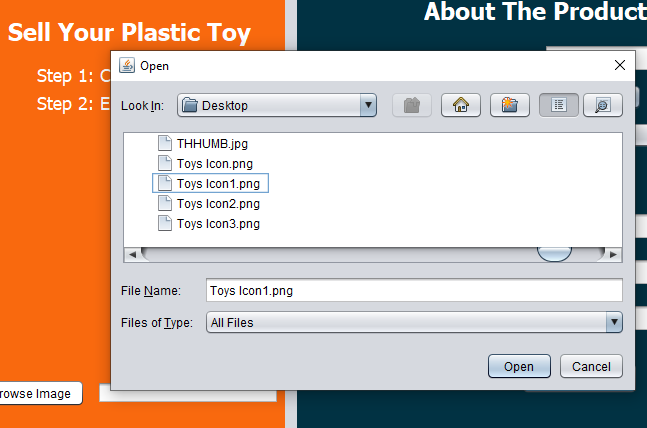
* The Admin could see the reports of the submitted products by the users and sold refurbished products.
* A more improved payment portal with more options to pay.

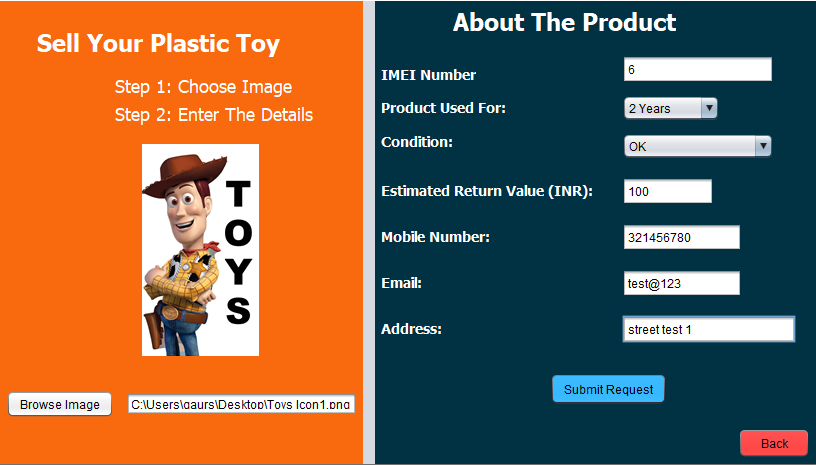
**SCREENSHOTS**

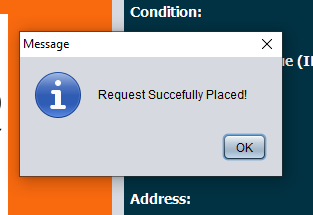


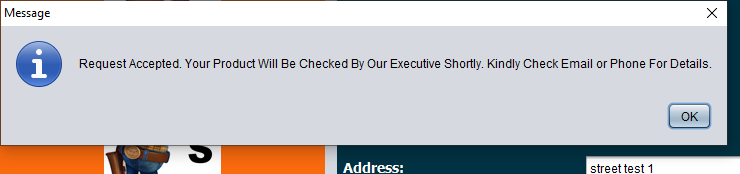


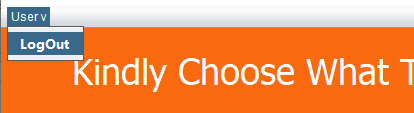


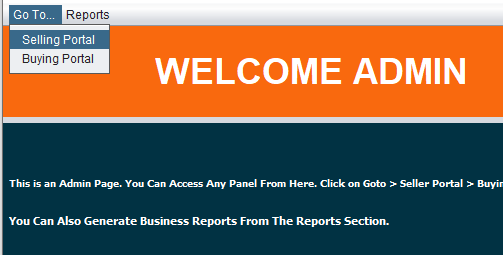










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