**WEB-BASED JUNK**

**SHOPPING SYSTEM**

# **TITLE PAGE**

A Project Study

Presented to the Faculty of the

School of Information Technology

University of Baguio

In Partial Fulfillment

of the Requirements for the Degree

Bachelor of Science in Information Technology

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November 2019

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**WEB-BASED JUNK**

**SHOPPING SYSTEM**

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# **INTRODUCTION**

Natural disaster is one of the global issues that have destroyed many properties, including the lives of people. Examples of a natural disaster include floods, tsunamis, earthquakes, and landslides. Each country takes action to prevent this natural disaster by reducing the causes of illegal logging, waste pollution, and others. Waste pollution is one of the causes of this natural disaster. According to the World Bank (2018), a global annual waste generation is expected to jump to 3.4 billion tons over the next 30 years, up from 2.01 billion tons in 2016. The East Asia and Pacific region is responsible for generating close to a quarter of all waste, including Philippines, on which the Philippines is ranked 3rd on countries of mismanaged plastic waste for the year2018 (Earth day Network, n.d.).

The Department of Environment and Natural Resources (DENR) implements laws such as Republic Act No. 9003 otherwise known as the “Ecological Solid Waste Management Act of 2000, enacted on January 26, 2001, and strategies such as segregation, 3R (Reduce, Reuse and Recycle), and others to control or reduce waste pollution. Despite the increase of laws and events to control waste pollution, it is still increasing every year especially in urban or populated cities in the Philippines. The Ecological Solid Waste Management-NCR section of the DENR shows a total of 9,283,889 kilograms of waste produced per day in the Philippines (Madarang, 2019). According to Sci (n.d), many residents do not participate in the implementation of waste reduction laws and programs of the government, and worst, they just dispose their waste in bodies of water, canals, roads, and some resort to burning their waste, which has a huge impact to the environment and health. This issue has noticeable impacts to the environment such as floods because of the waste blocking the canals and sea creatures are choking or are being poisoned from the waste thrown into the sea and other bodies of water.

With the implementation of the 3Rs, the increase of junkshops or businesses involved in buying and selling recyclable materials has been observed since 1960, when the first recycled paper company was founded (Paprec Group, 2008). This has also been the situation in the Philippines. Many success stories of junkshop owners have been featured in television programs.

Junk shops help in encouraging residents to segregate their waste by buying their recyclable materials. As a result, it helps in reducing wastes (Mayuga, 2016). However, junk shops have difficulties in finding potential clients. One reason for this is that many clients do not have the time to bring their recyclable wastes to junk shops. This forces them to throw such wastes to avoid occurrences of other problems. Another reason is the lack of knowledge of people about the locations and contact details of junk shops. In addition, according to Caniezo, Caranto, Daclan, Guillermo and Baldo (Personal Communication, 2019), who are junk shop owners that the researchers interviewed; there are instances when the junk shop is unmanned because the staff members go to certain areas to buy recyclable materials. This strategy of junk shops is, however, not always effective because some houses or other establishments like stores are close during the time of visits, and there is no guarantee that the residents have recyclable materials to sell. This wastes the time and efforts of collectors and the resources of junk shops.

To solve this issue, the researchers proposed to develop a web-based system that will facilitate buying and selling of junk materials.

### ***Literature Review***

Most people nowadays own devices such as computers, tablets and cell phones. These devices have a big impact in the lives of many people. It is used for communication, for gathering and sharing information, for tracking records, for entertainment, for processing transaction and others. Households that own a computer is about 48.3% worldwide in year 2018 and 30.4 million are smart phone users in Philippines in year 2017 (Statista, 2019).

The internet plays a significant role in peoples’ daily lives wherein people can communicate through the internet specifically through e-mail, social media, search and share information, play games, and others. According to Albert & Gaspar (2015), about 42% of the world’s population had access to the internet in year 2014, and in the Philippines, as of January 2014, there were 37.6 million Internet users and continues to increase.

One significant role of the internet is allowing the users to buy and sell things online, also known as online shopping. Online shopping has experienced a rapid growth during the recent years due to its unique advantages for both consumers and retailers, such as shopping at round the clock facilities, decreasing dependence to store visits, saving travel costs, increasing market area, decreasing overhead expenses and offering a wide range of products. More than 85% of world’s population has ordered goods over the internet during the recent year (Cheema, Rizwan, Jalal, Durrani, &Sohail, n.d).

In line with online shopping, buying of recyclable materials online is still being developed. For example, SkipTheDepot-Recycling Pickup and Bottle Drives is a mobile app that collects beverage containers (aluminum, plastics, clear plastic, and glass), old electronics (ex. computers and servers, gadgets), clothing & items. Through the mobile app, users such as residents, posts the recyclable materials that they have collected then the companies will collect the recyclable materials posted with the address of the user (SkiptheDepot, 2019).

There are also websites that offer collection of junk materials. For example, “Junk My Car” focuses its service on junk cars. The clients (those who own junk cars) need to post the information about the car such as models and the zip code of the users. Then the user needs to answer questions regarding the condition or current state of the junk car. After answering the questions, the system will provide an offer. The user will register into the system. Then the company will come to the address of the user to pick-up the junk car (Junk my Car, 2004).

Another example is “SGP Junkshop.com” which provides information to the public of what they collect, their location and other more.

Some junk shops online use Facebook as its platform. For example “Junkshop online” this collects junk, electronics, appliances, cars and motorbikes. Another example is “Pinoy Online Junkshop” which posts what material, condition of the material, and meet-up place of the consumer and retailer through Facebook.

Since many people own computers and mobile devices nowadays, accessing of internet continues to increase. Internet is used in many ways such as communication, entertainment like online shopping and others. With the concept of online shopping, recycling industry also develop their own system. For example, SkipTheDepot-Recycling Pickup & Bottle Drives, however this is only based on Canada. Junk My Car only collects junk cars in Las Vegas. Another is Junkshop Online, Pinoy Online Junkshop and SGP Junkshop.com is based on Philippines however, activities done are few and there are only few potential buyers.

However, the systems that were discussed are only for their own company. The recyclable materials that these systems collect are only limited in a way that they do not collect all possible recyclable materials. The time of collection is also a limitation wherein the time is not specified and is notified to the sellers.

### ***Conceptual Framework***

Software Development Life Cycle (SDLC) is a process used by the software industry to design, develop and test high quality software. The SDLC aims to produce high-quality software that meets or exceeds customer expectations, reaches completion within time and cost estimates (TutorialsPoint, 2019).

The following are the typical stages that are observed in a SDLC framework.

1. Planning and Requirement Analysis

It is the data gathering of input from the customer, the sales department, market surveys and domain experts in the industry. This information will be used to plan the basic project approach and to conduct product feasibility study in the economical, operational and technical areas.

1. Defining Requirements

It is to clearly define and document the product requirements. This is done through an SRS (Software Requirement Specification) document which consists all of the product requirements to be designed and developed during the project life cycle.

1. Designing the Product Architecture

Based on the requirements specified in the SRS document, mostly more than one design approach for the product architecture is proposed and documented in a SDD (Software Design Document).

1. Building or Developing the Product

It is where the actual development starts and the product is built. The programming code is generated as per SDD during this stage.

1. Testing the Product

It is the testing of the product where system errors are reported, tracked, and fixed. Testing is done repeatedly until the product reaches the quality standards defined in the SRS.

1. Deployment in the Market and Maintenance

Based on the feedback from stakeholders, the product may be released as it is or with suggested enhancements in the targeting market segment.

There are various software development life cycle models defined and designed which are followed during the software development process. The examples of these models are waterfall model, iterative model, spiral model, v-model, big bang model, agile model, rapid application development, prototyping model.

Using SDLC Framework, the researchers came up with Input-Process-Output Model that will be used in this study. In the IPO model, a process is viewed as a series of boxes (processing elements) connected by inputs and outputs.Information or material objects flow through a series of task or activities based on a set of rules or description points (Elizondo, n.d). Figure 1 shows the stages that need to be obeserved:

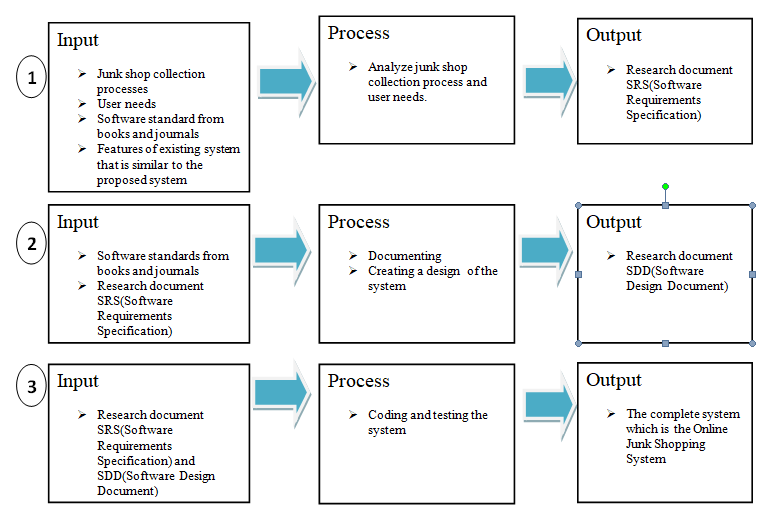


Figure 1. Input, Process and Output (IPO)

1. Input

Input is composed of the information and resources that will be used in the study. In this study, the input includes the junk shop collection processes being followed by junk shop owners in collecting recyclable materials. Another input that will be used is the user needs which will form part of the requirements for the system. The similar features of an existing system and software standards from books will be used as a reference in each of the development process. The researched documents which are the SRS (Software Requirements Specification) and SDD (Software Design Document) will be inputs for coding and testing of the proposed system.

1. Process

In this study, the junk shop collection processes, features of existing systems and user needs are analyzed to come up with requirements specification. Then, the researchers have developed a design applying the functional and non-functional requirements as specified in the document SRS. After designing the system, the researchers has coded and tested the system following the research documents which are the SRS and SDD. Throughout the process, the researchers are guided by the software standards from books and journals.

1. Output

The final output of the study is the Web-Based Junk Shopping System.

### ***Significance of the Study***

The following are the benefits to the users of the proposed system:

* Residents, commercial establishment owners and other clients

Residents may have difficulties on finding junk shops where they can sell their recyclable materials. This may be due to the location of the shop or residents, commercial establishment owners and others have no time to visit the junk shop. The system helps to eliminate this problem by allowing the residents to post the recyclable materials online. The system also helps reduce the cost of transportation of recyclable materials to junk shops, since they do not need to bring their recyclable materials directly to the junk shops.

* Junk shop owners

Junk shops have difficulties in finding potential clients. This study will help the junk shops to find potential clients by encouraging residents, commercial establishment owners and other clients to sell recyclable materials through online shopping, since internet is used by majority, advertisement online is much easier. In addition, online shopping is in trend today which makes the transaction in selling recyclable materials hassle free which attract the potential clients to sell their recyclable materials to potential buyers such as junk shops. The system will notify the junk shops regarding the post of residents informing them that they are selling recyclable materials that they have collected. The system also will allow bidding to have a fair fight in buying the recyclable materials.

* Community

Waste pollution is one of the issues that the community is facing nowadays. The system helps in reducing waste pollution by encouraging the residents, commercial establishment owners and other agencies to segregate their garbage and sell recyclable materials to junk shops and other companies that collect recyclable materials.

* Start-up Business

The proposed system can help businesses that will buy the system by facilitating the buying and selling of recyclable materials.

* Researchers

This study will help to expand the knowledge and improve the skills of the researchers in developing a system.

### ***Objectives of the Study***

The primary objective of the study is to develop a web-based application that facilitate buying and selling of junk/ recyclable materials online. Specifically, the objectives are:

1. To determine the user requirements of the system.
2. To implement usability standards in designing the system.
3. To construct and test the system based on software construction and testing standards.

### ***Scope and Limitation of the study***

The proposed system, Web-Based Junk Shopping System, is intended for junk shop owners, and any individual or establishment who intends to sell recyclable materials. It will be a mobile web application system accessible through desktops, laptops and mobile devices.

The system shall include the following:

* Registration of potential clients or sellers like residents and commercial establishment owners
* Registration of authorized junk shop owners and other businesses that collect recyclable materials
* Posting of recyclable materials to sell
* Bidding between junk shop owners and other businesses that collect recyclable materials
* Sellers can choose from the businesses that offered a bid
* Website notification and Email Notifications of Schedule of pick-up date, price and what junk shop or other business that collects recyclable materials
* Ads will be the income of the start-up business
* Report generation such as active users and history of accepted recyclable materials

Online payment will not be covered by the system, the same with the customer support such as complaint report since the transaction will end in accepting or declining the posted recyclable materials

# **METHODOLOGY**

### ***Study Design***

This study is an applied research which aims to find a solution for an immediate problem facing a society, or an industrial/business organization, and developed the solution using existing technologies, principles and standards. Through this study the researchers aim to contribute in managing wastes. Figure 2 illustrates the processes or steps in doing an applied research.

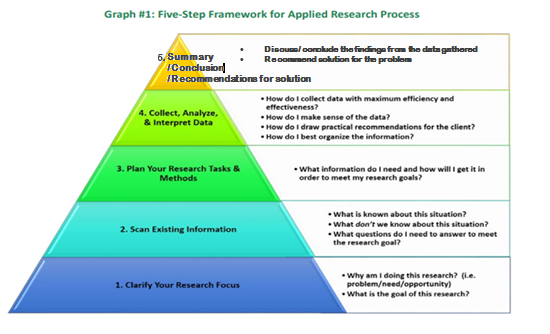


Figure 2. Five-Step for Applied Research Process (Baimyrzaeva, M., 2018)

1. Clarify Research Focus

Clarifying research focus involves communicating with the client to articulate which problem the research is meant to address, what are the goals and objectives of the study. In this phase, the researchers have identified what specific problem to address, which is the difficulty of junk shops in finding potential clients.

1. Scan Existing Information

This is a preliminary review of the existing information to uncover what is known about this case and what new information is needed. In this phase, the researchers gathered the existing information from books, journals, and articles to learn much as possible about the research problem. Literature review or background study is produced in this phase, which is provided in chapter 1 of this document.

1. Plan Research Tasks and Methods

Research methodology is a plan of research tasks that specifies how research questions will be answered. The researchers have identified the methodology that is used in this study which will serve as a guide in developing the solution. For the development phase, the researchers used Rapid Application Development (RAD) model.

1. Collect, Analyze, and Interpret Data

Collection of data from different sources that is relevant to the study that is analyzed and interpreted. In this phase, the researchers have collected data using different data gathering tools such as interview guide. The population is estimated in this phase.

1. Summary/Conclusion/Recommendations for solution

From the data gathered, the interpreted data is summarized to come up with a conclusion. After a conclusion is reached, the researchers proposed a recommended solution. In this study, the recommended solution is the developed system that will help encourage the residents, commercial establishment owners and other clients to segregate their garbage and sell their recyclable materials to junk shops.

In developing a solution, which is a web-based application, the researchers used Rapid Application Development (RAD) methodology. According to TutorialsPoint (2019), RAD is a methodology that emphasizes fast-paced prototyping. RAD allows the early and reiterative user testing of the designs. The method is ideal given the time constraints of the project since RAD is used when there is a need to create a product in a short amount of time. RAD has four phases as shown in Figure 3.

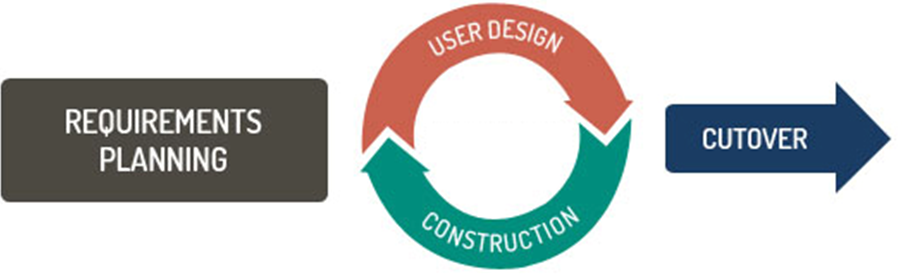


Figure 3. Rapid Application Development (TatvaSoft, 2015)

1. Requirements Planning

In the requirements planning phase, a workshop needs to be conducted to discuss the problems in a structured manner. In this phase of development, the researchers have identified the objectives and requirements for the system. The researchers gathered data from online resources to identify the problems related to the waste pollution and requirements needed for the development of the Web-based Junk Shopping System. The SRS (Software Requirements Specification) document is created in this phase, which could be found on the Appendix D of this document.

To assist the developers in defining some of the functional and non-functional requirements of the study, an interview for the junk shop owners and residents from Baguio City and La Trinidad, Benguet will be conducted.

1. User Design

In the user design phase, this is where the user interface (UI) of the system is created. In this phase, the developers has designed and developed the prototype of the system following the requirements identified during the requirements planning phase. A SDD (Software Design Document) is created in this stage to accurately describe and elaborate the system’s design. This document will serve as a guide for developing the system. Refer to Appendix E of this document.

1. Construction

In the construction phase, coding and testing is executed. The developers based the functionalities of the system from the SRS document to ensure the quality of the Web-based Junk Shopping System before deploying. When the developers encounter changes in the design, they will go back to user design before they continue to code and test the system. Test plan and Users story Acceptance Criteria is created in this phase for documentation purposes. This document could be found in Appendix F and G of this document.

1. Cutover

In the cutover phase, the developers will install and deploy the Web-based Junk Shopping System in the internet. However, this will not be done by the researchers due to short period of time given.

### ***Population of the Study***

The researchers estimated a sample by using a non-probability sampling technique which is Homogeneous sampling. According to Laerd (n.d.), homogeneous sampling is a purposive sampling technique that aims to achieve a sample that share the same characteristics or traits such as age, gender, occupational, and others. The researchers has interviewed five junk shop owners in Baguio City and La Trinidad, Benguet to determine relevant processes, issues and problems, and asked them what they want to see in the system.

### ***Data Gathering Tools***

The main data gathering technique that will be used in the study is an interview guide. An interview guide with a set of questions will be developed prior to conducting the interview. A sample interview guide is provided in Appendix C.

Another gathering tool is Online resources generally search engines such as Google chrome, Mozilla, and others.

### ***Data Gathering Procedures***

The researchers conducted an interview to gather important data needed in developing the website. The following steps are observed:

1. Creation of request letter

The researchers created a letter to be addressed to the junk shop owners that request the junk shop owners to participate in the study by sharing the needed information in this study. The letter should be approved by the University of Baguio (School of Information Technology) Dean and by the adviser or class representative of where the researchers are enrolled. A sample request letter is provided in Appendix A.

1. Creation of interview guide and set of questions

The researchers created a set of questions and guide to be observed in the interview such as the participation of the interviewee is voluntary, and the data gathered from the interview is solely for academic purpose only. Consent from the interviewee has been secured for the researchers to record the interview. A reply form is produced. The reply form should be signed by the interviewee for approval. A sample of reply form is provided in Appendix B.

1. Distribution and signing of request letters

The created letter is distributed to authorized personnel which are the junk shop owners and the reply form should be signed as an approval that they are willing to share the needed information to the researchers.

1. Interview Proper

After the approval of the participants, an interview is immediately scheduled. The designated interviewer asked questions to the interviewee following the interview guide. The other researchers recorded the response of the interviewee. Follow-up questions are also administered to clarify or expound some information.

1. Summarization of Data

The researchers gathered all the information from the interview and summarized the data gathered.

For the online sources, the following is the steps in gathering data:

1. Search related keywords using the search engines such as Google chrome

The researchers typed related keywords to search engines, for example “online junkshops” is the keyword that will be typed in the search engines.

1. Become familiar or review the content

The researchers read the content of the article, e-book, journals and others that is shown in the list shown by the search engine and familiarize them to the information

1. List the page or snippet of information related to the study

### ***Treatment of Data***

The data gathered is analyzed using Thematic Content Analysis. This is probably the most common method used in applied research. The following are the steps in analyzing the data:

1. Become familiar with the data

The researchers need to read and review the data gathered and determine which part of data has value or can be used in the study and disregard those that will not be used to study.

1. Categorize the data

The researchers categorized the data needed in different categories such as functional and non-functional requirements.

### ***Ethical Consideration***

Participation to the study by the respondents is voluntary, within the distribution of request letter; they may withdraw or pull-out from the interview, if they wish. The respondents will be oriented or informed about the nature of the study they are participating in before they decide to participate or not. To prove that participants have given their informed consent to participate, they will sign a reply form attached with the request letter.

In accordance with the Republic Act 10173 - Data Privacy Act of 2012, section 8, 11&12. The interviewees shall not be named unless their permission has been sought and granted, for the confidentiality of the interviewee. For Any recorded contribution, in written form, on tape, or in notes taken from the interview by the interviewer, should be stored in a secured place, especially the personal information of the participants.

Information given by the participants shall be used for academic purpose only, specifically in this study Web-Based Junk Shopping System. The researchers will give a copy of research document to the participants in either hard or soft copy, if they wanted. The researchers should also show the complete system which is the Web-Based Junk Shopping System to the participants of the study.

**DISCUSSION OF FINDINGS**

Web-based Junk Shopping System is a website that facilitate the selling and buying of recyclable materials online.

An interview was conducted with the 5 junk shops owners in Baguio City and La Trinidad, Benguet. The results of the interview are discussed below:

**User Requirements of the System**

One of the objectives of the study was to determine the user requirements of the system. According to Caniezo, Caranto, Daclan, Guillermo and Baldo (Personal Communication, 2019), the following is what they suggest for the requirement of the system:

* **Registration.** They want to be allowed to register multiple roles which they can be a buyer at the same time they can also be a seller.
* **Posting of Recyclable Materials**. As a buyer, they want to see all available recyclable materials being sold. They need to see the recyclable information such as what type such as plastic bottles and measurement for their basis, including the picture of the recyclable materials to be sold.
* **Bidding.** This will give fair opportunity for the buyers that are interested to one recyclable materials being sold. The following are the rules that will be implemented in bidding:
  + Bidding will only last in 24 hours prior to the time the seller post the recyclable materials.
  + The seller can only choose from the buyers that offered a bid after 24 hours. If only one company offer bid to a particular recyclable materials, that company can take the recyclable materials posted. If no company offered a bid, the system will notify the seller and recommend canceling, directing sell or reposting.
* **Direct Selling.** This allows the user to sell directly to the company or buyer. If the company declines, the system will notify the seller and recommend posting for bidding.
* **First-come First-serve.** This allows the user to sell recyclable materials in first-come first-serve basis.

The development team considered this suggestion and created the requirements and constructs the system following these suggestions. Further discussion of user requirements can be found in the document Software Requirements Specification (SRS), which is located in the Appendix D.

**Usability Standards**

Another objective of this study is to implement usability standards in designing the system. The Web-based Junk Shopping System can be accessed by any devices such as desktop, laptop and smart phones that has web browser. Since the system can be accessed by any device that has a web browser, the design should be responsive according to the screen resolution of the device. The developers are guided by the ISO/IEC 40500:2012 (Web Content Accessibility Guidelines (WCAG) 2.0) which contain the standard that should be followed or observed in designing a website.

According to this standard the design should be perceivable, in a way that the information and user interface (UI) components must be presentable to users that they can understand easily without having a tutorial or training on how to use the system. This can be achieved by using common symbols or information that is used by majority for example, for delete buttons, the developers can use the icon trash can or just the word delete, since it is generally used in many systems.

Another requirement is Operable. Users should have enough time to read the content before transitioning to another part of the system and should not have interference such as flashes of notification in multiple times at the same time.

Last requirement is design should be understandable. The design should be consistent all throughout, so that the users can predict the operation of the system. In addition, the design should be able to inform the user of the missing and incorrect inputs. The notification should include the description of the error.

Aside from the standards mentioned above, the developers are also guided by the document Software Design Document (SDD) which can be found in the Appendix E.

**Construct and Test the system**

The last objective of the study is to construct and test the system based on software construction and testing standards. Since MVC is the architecture chosen for this study, the developers will be using Laravel framework for constructing the system, since this framework is already implementing the concept of MVC. Before coding the system, the developers had designed the database. The database should contain important and needed data. The database should also be normalized for easier management of the database. SRS and SDD documents will serve as guidelines in coding the system

For testing, the developers tested the system using white box testing and black box testing. In white box testing, unit testing is executed while the development team is coding the system. While in black box testing, integration testing and system testing is executed to test the functionalities of the system. User’s story acceptance criteria are created to test the functionalities of the system. For further details of testing is discussed in the Test Plan document which is located to Appendix F to ensure the quality of the product which is Web-based Junk Shopping System. User’s acceptance test will not be done in this study due to short period of time given.

**CONCLUSION AND RECOMMENDATION**

**Conclusion**

Waste pollution is one of the issues that the world faces today. Many laws was implemented by the government, especially the Department of Environment and Natural Resources (DENR) such as the 3Rs (Reduce, Reuse, and Recycle). Implementing the 3Rs, Recycling industry plays an important role in reducing waste pollution. Part of this recycling industry is junk shops which buy or collects recyclable materials. However getting the interest of the residents and other establishment to participate is hard.

Web-based Junk Shopping System helps junk shops and other companies that buy recyclable materials to gain the attention of potential clients. Since online shopping is in trend nowadays, this system facilitate the buying and selling of recyclable materials online.

The methodology used in this study for the development of the system, Web-based Junk Shopping System is Rapid Application Development (RAD). This methodology is effective in meeting the tasks needed, especially in short time of period given to develop the system.

In addition, the developers used Model, View Controller (MVC) as the logic architecture of the system. This architecture is easy to maintain and manage since the parts of the architecture is divided in its specific functions such as Model for data-related logic that the user works with, View is for the User Interface (UI) which the users interacts with, and the Controller act as an interface between Model and View components to process all the business logic and incoming requests, manipulate data using the Model component and interact with the Views to render the final output.

In line with the architecture MVC, the developers used Laravel framework in developing the system. Laravel implements PHP programming and has a ready files needed in creating a website. Since the developers have basic knowledge and experience in using Laravel, it is easier to manipulate and use in constructing the system.

**Recommendations**

The developers of Web-based Junk Shopping System recommend the following to future researchers for the development of the web application:

1. The refinement of the application in terms of user experience and interface to   
 enrich the overall feel of the website.

2. Making the system more engaging by adding more functions and features that   
 will make Web-based Junk Shopping System a more entertaining application.

3. Implement usability testing to further ensure the quality of the system.

4. Add customer support to the functionalities of the system

5. Add online payment, if possible for easier transaction

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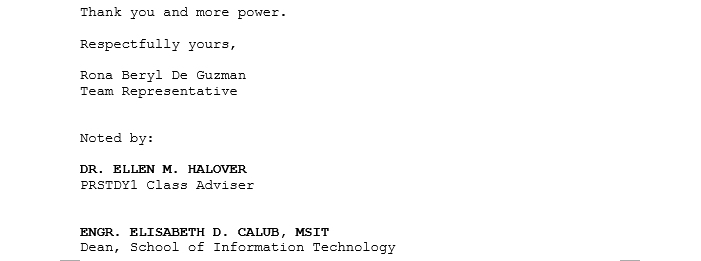
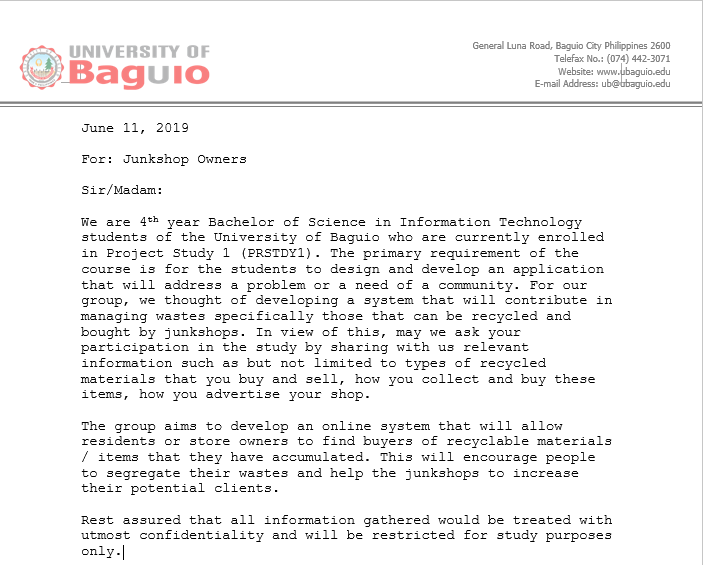
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# **APPENDICES**

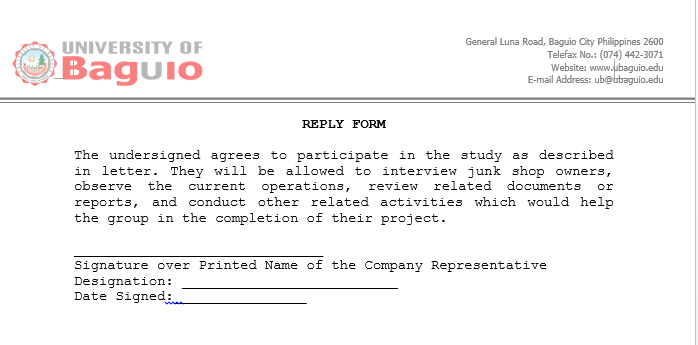
**Appendix A**

### **A. Interview Request Letter**



**Appendix B**

### **B. Reply Form**



**Appendix C**

### **C.Interview Guide**

1. What are the non-biodegradable you usually recycle? What are the materials that are mostly brought to your junk shop?
2. What are the policies you follow in collecting recyclable materials? How is your process of collecting these materials?
3. How do you measure the materials you bought? Is it using kilos?
4. Do you have fixed rates or a list of your rates?
5. Do you keep records of sellers and recyclable materials you have collected or purchased?

**Appendix D**

**D. SOFTWARE REQUIREMENTS SPECIFICATION (SRS)**



**Web-based Junk**

**Shopping System**

Version 0.3

**Prepared By:**

SeahVashti S. Corpuz

Rona Beryl G. De Guzman

Frederick F. Layus Jr

Raymarc Neil J. Miranda

November 2019

|  |
| --- |
| Document Sign-off |

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**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Date | Reason For Changes / Comments | Version |
| WJSS | 08/29/2019 | * Change the template to latest SRS | 0.1 |
| WJSS | 09/23/2019 | * Update the users story * Update the product functionalities * Update the users mapping | 0.2 |
| WJSS | 10/01/2019 | * Update the users story * Update the users mapping | 0.3 |

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**1. INTRODUCTION**

1. **Purpose**

Web-based Junk Shopping System will be created to facilitate the selling and buying of recyclable materials between companies who collects recyclable materials such as junk shop and residents who wants to sell recyclable materials.

The purpose of this SRS document is to outline the functional requirements of the Web-based Junk Shopping System (WJSS). In addition, the document provides a detailed profile of the external and design constraints imposed on the subsequent implementation. It also includes the user’s story that is needed for the system to function efficiently. Additionally, the document will serve as a tool to aid the team in the development of the application.

1. **Scope**

Web-based Junk Shopping System is a web-based application that allows a user to sell and buy recyclable materials. The application is comprised of the following features:

Companies that collects recyclable materials

* Registration of authorized junk shop owners and other businesses that collect recyclable materials.
* Posting of recyclable materials that the companies collects or accepts.
* Bidding between junk shop owners and other businesses that collect recyclable materials.
* Email and Website Notifications of seller who accepted the bid of the company, including the recyclable materials information to be collected.
* Report generation such as history of recyclable materials collected and others

Residents and other establishments

* Registration of potential clients or sellers like residents and commercial establishment owners
* Posting of recyclable materials to sell
* Sellers can choose from the businesses that offered a bid
* Email and Website Notifications of Schedule of pick-up date, price and what junk shop or other business that collects recyclable materials

Admin or Start-up Business

* Viewing of registered users such as sellers and companies
* Report generation such as active users, history of transactions made per day and others.

1. **Definitions, Acronyms, and Abbreviations**

**Definitions**

|  |  |
| --- | --- |
| **Term** | **Definition** |
| WJSS | Web-based Junk Shopping System |
| Junk/ Recyclable Materials | This term refers to raw or processed material that can be removed from a waste stream, reused, and repurposed into another item. |

1. **References**

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1. **Overview**

This SRS document is subdivided into five major sections, namely the following:

**Section1 –Introduction.** Provides an overview of the Software   
 Requirements Specification Document and the scope of the   
 document

**Section 2 –Business Description.** Provides the Constraints, Business   
 Description and Objectives, including the Stakeholders   
 Profile.

**Section 3 –The Overall Description**. Provides the interface requirements   
 of WJSS in terms of system, hardware, software,   
 communication as well as the profile of the users of the   
 software application

**Section 4 –Specific Requirements.** Details the functional features of the   
 system using use cases. Developers shall refer to this section   
 for detailed requirements and business rules to be used   
 together with the analysis and design models

**2. BUSINESS DESCRIPTION**

1. **Constraints**

The Web-based Junk Shopping System is constrained by the system interface via the search engines available for users to use and log in for their account on the website. Since there are many search engines or software that can be used by users, there may be a slight difference between each search engines.

The Internet, Data or Wi-Fi connection is also one of the constraints for the website. Since users are required to log in on the website, it is crucial to have Internet connection for the website to function.

Also power supply is also necessary to access the system. The users can only access the website if they have devices such as desktop, laptop, smart phones which rely on the power supply or on the battery.

1. **Business Description**

Definitions.net. STANDS4 LLC (2019) stated that online shopping is a form of electronic commerce which allows consumers to directly buy goods or services from a seller over the Internet using a web browser. Online shopping systems served as a middle man between the seller and the buyer.

Online shopping is also effective in advertisement, especially nowadays. According to Market Business News (2019) Online Shopping does not only include buying things online but also searching for them online.

1. **Business Objectives**

* **Service or Product Advertising.** Promoting the companies who collect recyclable materials and what they collect to potential clients thru the internet.
* **Selling a product or a service online.** Providing full and comprehensive information on what they sell, allowing prospective customers to easily decide what to order from the site.
* **Establishing brand identity.** The logo or slogan of the website is important to attract potential clients such as sellers and buyers, especially companies that collect recyclable materials. The system logo must reflect the design of the website in terms of graphics, colors, font types and sizes.

1. **Stakeholder Profile**

|  |  |
| --- | --- |
| **Representative** | SeahVashti S. Corpuz, Rona Beryl G. De Guzman, Frederick F. Layus Jr, Raymarc Neil J. Miranda |
| **Description** | The developers who are to create the application. |
| **Type** | Developers |
| **Responsibilities** | * Conduct the activities needed in the development of Witty Wallet. * Submit all the deliverables and meet deadlines. |
| **Involvement** | * Develop Web-based Junk Shopping System |
| **Deliverables** | * Web-based Junk Shopping System Requirements Specification * Web-based Junk Shopping System Design Document * Web-based Junk Shopping System Prototypes |
| **Comments/ Issues** |  |

|  |  |
| --- | --- |
| **Representative** | Cherrie L. Almazan |
| **Description** | Project Study class adviser |
| **Type** | Project Reviewer |
| **Responsibilities** | * Gives deadlines for the submission of deliverables * Discuss the necessary information needed to successfully established the documentation |
| **Involvement** | * Monitors the project development * Check the project for deficiencies and gives recommendations/ suggestions |
| **Deliverables** | * Web-based Junk Shopping System Requirements Specification * Web-based Junk Shopping System Design Document * Witty Wallet Prototypes |
| **Comments/ Issues** |  |

**3.** **THE OVERALL DESCRIPTION**

* + 1. **Product Perspective**

1. **System Interfaces**

Web-based Junk Shopping System has no required system interfaces.

1. **Hardware Interfaces**

Web-based Junk Shopping System has no required hardware interfaces.

1. **Software Interfaces**

WJSS will use any of the following browsers with the specifications stated below:

* Google Chrome version 54.0,2840 and up.
* Firefox version 50.0 and up
* Safari 4 version 5.1.7 and up for Windows
* Internet Explorer 11 and up
* Microsoft Access 2016

1. **Communications Interfaces**

The WJSS will use the following communication interfaces:

* HTTP - the system will make use of this communication protocol for internet users, to access the system.
* SMTP (Simple Mail Transfer Protocol) - this protocol will be used in sending emails for notification purposes.

1. **Operations**

Power interruptions, Internet Issues, Server Maintenance will all affect the Web-based Junk Shopping System; otherwise the operations of the website will be 24/7.

1. **Site Adaptation Requirements**

The Web-based Junk Shopping System has no site adaptation requirements.

* + 1. **Product Functions**

|  |  |
| --- | --- |
| **Functionality** | **Description** |
| Registration | This allows the user to create his/ her account |
| Log-in | This allows the user to log-in to his/her account |
| Log-out | This allows the user to log-out |
| Change password | This allows the user to change their password |
| Forgot password | This allows the suser to retrieve their password through email |
| Edit Profile | This allows the user to edit his/her profile |
| Post Recyclable Materials | This allows the seller to post recyclable materials to sell, either for bidding, direct sell or first-come first-serve |
| Cancel Posted Recyclable Materials | This allows the seller to cancel his/her post |
| Edit Posted Recyclable Materials | This allows the seller to edit his/her posted recyclable materials details |
| Search buyers | This allows the seller to sort the list of buyers |
| View my posted recyclable materials | This allows the seller to view his/her posted recyclable materials |
| Confirm transaction | This allows the seller to confirm the accepted direct or first-come first-serve posted recyclable materials |
| Accept offered Bid | This allows the seller to accept offered bid |
| Offer Bid | This allows the buyer to offer bid to a particular posted recyclable materials |
| Cancel Offered Bid | This allows the buyer to cancel his/her offered bid |
| Edit offered bid | This allows the buyer to edit his/her offered bid |
| Accept Direct Sell | This allows the buyer to accept directed sell of recyclable materials |
| Decline Direct Sell | This allows the buyer to decline directed sell of recyclable materials |
| Add recyclable materials | This allows the buyer to add recyclable materials they collect |
| Edit recyclable materials | This allows the buyers to edit recyclable materials they collect |
| Delete recyclable materials | This allows the buyers to delete the recyclable materials that they collect |
| Search posted recyclable materials | This allows the buyers to sort list of posted recyclable materials |
| View accepted recyclable materials | This allows the buyers to view list of recyclable materials they have collected |
| Buy posted recyclable materials | This allows the buyers to reserve posted recyclable materials for first-come first-serve |
| Search Account of Sellers | This allows the admin to sort list of account of seller |
| Search Account of Buyer | This allows the admin to sort list of account of buyers |
| Deactivate Account | This allows the admin to deactivate users account |
| Activate Account | This allows the admin to activate users account |
| Add Ads | This allows the admin to add advertisment to the system |
| Edit Ads | This allows the admin to edit an specific ads |
| Delete Ads | This allows the admin to delete the ads in the system |
| View Active Users | This allows the admin to view list of active users of the system |
| View Done Transaction | This allows the seller to view list of done transaction |
| Filter report | This allows the admin and buyer to filter report details |
| Export to PDF | This allows the admin and buyers to export the report to PDF format file |

* + 1. **User Characteristics**

|  |  |  |
| --- | --- | --- |
| **User** | **Description** | **Functions** |
| **Administrator** | Responsible for verification and file maintenance of the system | * Log-in * Approving registration of companies * Viewing list of accounts * Adding admin account * Report generation such as active users |
| **Buyer** | Companies the collects recyclable materials such as junk shop | * Registration * Log-in * Update Profile * Acceptposted recyclable materials * Offer bid to posted recyclable materials to buy * Report generation such as history of collected recyclable materials |
| **Seller** | Residents and other establishment that want to sell recyclable materials | * Registration * Log-in * Update profile * Post direct sell * Post recyclable materials for bidding * Post recyclable materials to sell * Accept bid from one company that offer bid |

* + 1. **Assumptions and Dependencies**
* All those who are not yet logged in cannot access the   
  system otherwise they are prompted to create account.
* Devices must be in its minimum specification.
* Users’ information should be updated constantly.
* The system design and some of the defined requirements   
  may change based from testing phase.

**4. SPECIFIC REQUIREMENTS**

**4.1 Functional Requirements**

**4.1.1 General Story**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Users Story ID** | **As a** | **I want to** | **So that I can** | **Fields** | **Type** | **Domain Constrains** | **Required Fields** |
| Registration – GS01 | As a seller or buyer | I want to have my own account | So that I can log-in to the website | Name | Text | A-Z, a-z | Required |
| Email | Text | a-z,A-Z,0-9,special characters; extended with @email.com | Required |
| Contact No | Text | If Phil, start with 0+10, digit # | Required |
| Address | Text | A-Z; 0-9 w/-,.and #;city/ province | Required |
| Password | Text | A-Z, a-z, 0-9  Max of 8 characters | Required |
| Confirm Password | Text | A-Z, a-z, 0-9  Max of 8 characters | Required |
| Role | Text (Checkbox) | A-Z, a-z, either Buyer or Seller or Both | Required |
| Avatar | Text (Image) | A-Z, a-z,0-9, extended with .jpeg, .png or other image format | Optional |
| Log-in –GS02 | As a user | I want to log-in to the system | So that I can post or buy recyclable materials | Email | Text | a-z,A-Z,0-9,special characters; extended with @email.com | Required |
| Password | Text | A-Z, a-z, 0-9  Max of 8 characters | Required |
| Log-out – GS03 | As a user | I want to log-out to the system | So that I could exit my account | Log-out | Text  (Button) | N/A | Required |
| Change password- GS04 | As a user | I want to change my password | So that I could update my password | Old Password | Text | A-Z, a-z, 0-9  Max of 8 characters; must match the current password saved in the database | Required |
| New Password | Text | A-Z, a-z, 0-9  Max of 8 characters | Required |
| Confirm Password | Text | A-Z, a-z, 0-9  Max of 8 characters | Required |
| Forgot password – GS05 | As a user | I want to reset my old password | So that I could reset my old password to log-in | Email | Text | a-z,A-Z,0-9,special characters; extended with @email.com | Required |
| Edit Profile - GS06 | As a user | I want to edit my profile | So that I could update my personal information | Name | Text | a-z, A-Z | Required |
| Contact No | Text | If Phil, start with 0+10, digit # | Required |
| Address | Text | A-Z; 0-9 w/-,.and #;city/ province | Required |

### **4.1.2 Sellers Story**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Users Story ID** | **As a** | **I want to** | **So that I could** | **Fields** | **Type** | **Domain Constrains** | **Required Fields** |
| Post Recyclable Materials– SS01 | As a seller | I want to post recyclable materials | So that I could sell my recyclable materials through the website | Material | Text (Dropdown) | A-Z, a-z, list from materials table | Required |
| Junk Pic | Text (Image) | A-Z, a-z, 0-9,Extended with .jpeg,.png, and other image format | Required |
| Quantity | Number | 0-9, minimum of the inputted minimum number from the categories table | Required |
| Units | Text (Dropdown) | A-Z, a-z, list from units table | Required |
| Type | Text (Dropdown) | A-Z, a-z, list, either bidding or first-come first-serve | Required |
| Cancel Posted Recyclable Materials – SS02 | As a seller | I want to cancel my posted recyclable materials | So that I could delete my posted recyclable materials | Delete | Text  (Button) | Can only cancel if no bid or no buyers accepted the post yet | Required |
| Edit Posted Recyclable Materials – SS03 | As a seller | I want to edit my posted recyclable materials | So that I could update my posted recyclable materials information | Junk Pic | Text (Image) | A-Z, a-z, 0-9,Extended with .jpeg, .png, and other image format | Required |
| Quantity | Text | 0-9, minimum of the inputted minimum number from the categories table | Required |
| Search buyers – SS04 | As a seller | I want to search companies | So that I could sort or search specific companies | Search | Text | A-Z, a-z,0-9 | Required |
| View my posted recyclable materials – SS05 | As a seller | I want to view my list of posted recyclable materials | So that I could see the details and the status of my posted recyclable materials | My Post | Text (Table) | Show the posted recyclable materials details | Required |
| Accept offered Bid – SS06 | As a seller | I want to choose from the offered bid of the buyers | So that I could accept one offered bid | Accept | Text  (Button) | N/A | Required |
| Confirm accepted transaction – SS07 | As a seller | I want to confirm accepted direct sell or first-come first-serve | So that I could confirm my posted recyclable materials that the buyers has accepted | Confirm | Text (Button) | N/A | Required |

### **4.1.3 Buyers Story**

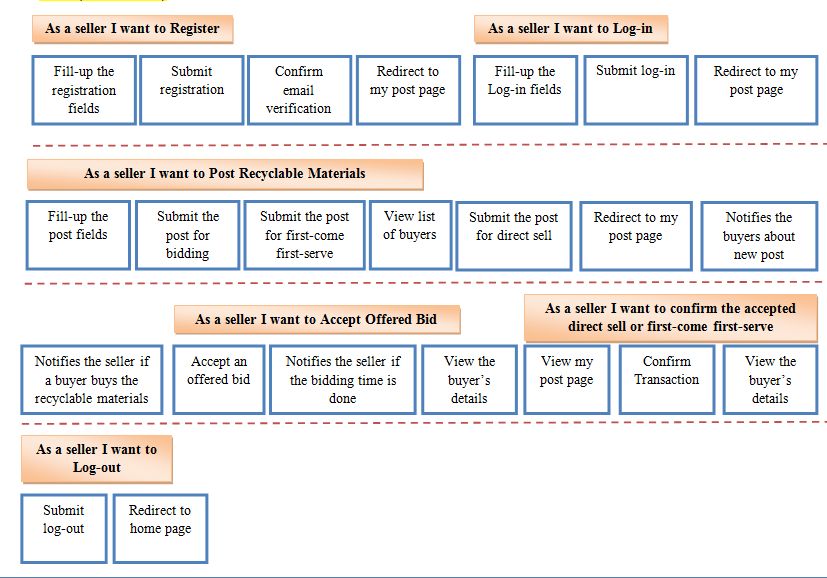
|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Users Story ID** | **As a** | **I want to** | **So that I could** | **Fields** | **Type** | **Domain Constrains** | | **Required Fields** |
| Offer Bid – BS01 | As a buyer | I want to offer a bid to a posted recyclable materials | So that I could have a chance to buy the posted recyclable materials | Price | Text | 0-9, format(PHP ##.00) | | Required |
| Cancel Offered Bid – BS02 | As a buyer | I want to cancel my offered bid to a particular recyclable materials | So that I could delete my offered bid | Delete | Text (Button) | Can delete during bidding time | | Required |
| Edit offered bid – BS03 | As a buyer | I want to edit my offered bid to a particular posted recyclable materials | So that I could update my bid details | Price | Text | 0-9, format(PHP ##.00),can only edit within the bidding time | | Required |
| Accept Direct Sell – BS04 | As a buyer | I want to accept the direct sell of recyclable materials | So that I could reserve the directed recyclable materials | Accept | Text (Button) | N/A | | Required |
| Decline Direct Sell – BS05 | As a buyer | I want to decline direct sell of recyclable materials | So that I could reject the directed recyclable materials | Decline | Text (Button) | N/A | | Required |
| Add recyclable materials – BS06 | As a buyer | I want to add recyclable materials that I collect | So that I could add options/guide for the seller of what to recyclable materials to collect | Material | Text (Dropdown Input) | A-Z, a-z, list of default materials | | Required |
| Minimum | Text | 0-9, not less than zero | | Required |
| Rate | Text | 0-9, format(PHP ##.00) | | Required |
| Units | Text (Dropdown) | A-Z, a-z, list from units table | | Required |
| Edit recyclable materials – BS07 | As a buyer | I want to edit recyclable materials that I collect | So that I could update recyclable materials details that I collect | Material | Text (Dropdown Input) | A-Z, a-z, list of default materials | | Required |
| Minimum | Text | 0-9, not less than zero | | Required |
| Delete Recyclable Materials – BS08 | As a buyer | I want to delete recyclable materials that I collect | So that I could I can update my list of collectable materials | Delete | Text (Button) | N/A | | Required |
| Search posted recyclable materials – BS09 | As a buyer | I want to search posted recyclable materials | So that I could sort the list of posted recyclable materials | Search | Text | | A-Z, a-z,0-9 | Required |
| View accepted recyclable materials – BS10 | As a buyer | I want to view my list of accepted recyclable materials | So that I could see the report of accepted recyclable materials per month | Transaction | Text (Table) | A-Z, a-z, show recyclable materials accepted by the buyer | | Required |
| Buy posted recyclable materials – BS11 | As a buyer | I want to accept posted recyclable materials for first-come first-serve | So that I could reserve the recyclable materials | Quantity | Text | 0-9, min of 1 and max of quantity of posted recyclable materials | | Required |

### **4.1.4 Admin Story**

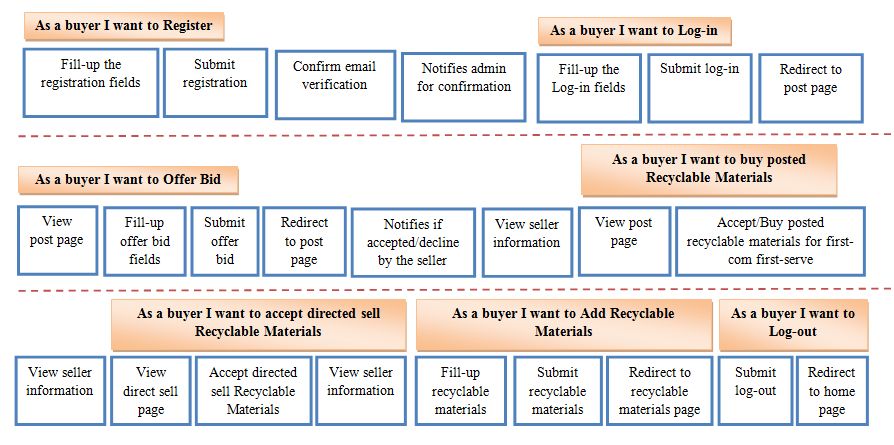
|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Users Story ID** | **As a** | **I want to** | **So that I could** | **Fields** | **Type** | **Domain Constrains** | **Required Fields** |
| Search Account of Sellers – AS01 | As an admin | I want to search account of seller | So that I could sort the list of account of the seller | Search | Text | A-Z, a-z,0-9 | Required |
| Search Account of Buyer – AS02 | As an admin | I want to search account of buyer | So that I could sort the list of account of buyers | Search | Text | A-Z, a-z,0-9 | Required |
| Deactivate Account – AS03 | As an admin | I want to deactivate account of users | So that I could update the status of the users | Deactivate | Text  (Button) | N/A | Required |
| Activate Account – AS04 | As an admin | I want to activate account of users | So that I could update the status of the users | Activate | Text  (Button) | N/A | Required |
| Add Ads – AS05 | As an admin | I want to add ads to the system | So that I could show ads in the website | Company | Text | A-Z, a-z,0-9, special character | Required |
| Ads Pic | Text (Image) | A-Z, a-z, 0-9,Extended with .jpeg,.png, and other image format | Required |
| Description | Text | A-Z, a-z,0-9, special character | Required |
| URL | Text | A-Z, a-z,0-9, special character | Required |
| Priority | Text (Dropdown) | A-Z, a-z,0-9, either Low, Medium or High | Required |
| Edit Ads – AS06 | As an admin | I want to edit ads | So that I could update the ads details | Company | Text | A-Z, a-z,0-9, special character | Required |
| Ads Pic | Text (Image) | A-Z, a-z, 0-9,Extended with .jpeg,.png, and other image format | Required |
| Description | Text | A-Z, a-z,0-9, special character | Required |
| URL | Text | A-Z, a-z,0-9, special character | Required |
| Priority | Text (Dropdown) | A-Z, a-z,0-9, either Low, Medium or High | Required |
| Delete Ads – AS7 | As an admin | I want to delete ads | So that I could update the list of ads | Delete | Text (Button) | N/A | Required |

**4.2 Users Story Mapping**

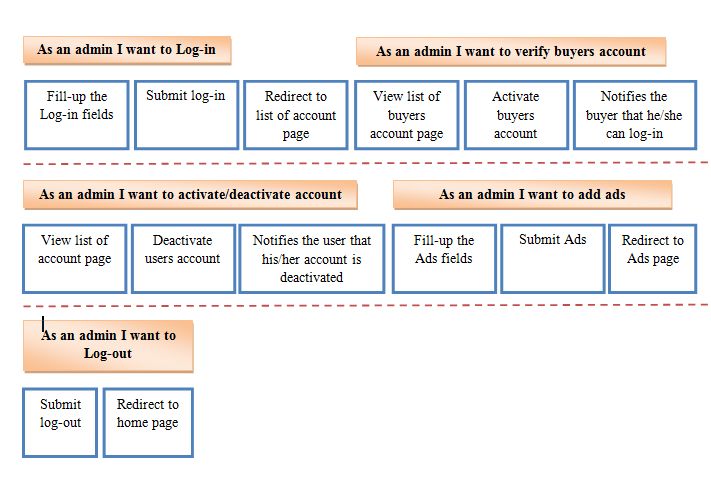
### **4.2.1 Sellers Story Mapping**



### **4.2.2 Buyers Story Mapping**



### **4.2.3 Admin Story Mapping**



## **4.3Graphical User Interface (GUI)**

**Appendix E**

# **E.SOFTWARE DESIGN DOCUMENT (SDD)**



**Web-based Junk**

**Shopping System**

Version 0.3

**Prepared By:**

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Rona Beryl G. De Guzman

Frederick F. Layus Jr

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November 2019

|  |
| --- |
| **Document Sign-off** |

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|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes / Comments** | **Version** |
| WJSS | 08/29/2019 | * Change Assumption and Dependencies * Change Drivers to standards * Confirm the Hardware and Software Requirements * Change Architecture to Physical and Logical * Update the web structure | 0.1 |
| WJSS | 09/23/2019 | * Update the database schema and ERD * Update the GUI table | 0.2 |
| WJSS | 10/01/2019 | * Update ERD model * Update database schema * Update the GUI table | 0.3 |

**Revision History**

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1. **INTRODUCTION**

## **1.1 System Overview**

The document will discuss the details of the Web-based Junk Shopping System (WJSS) system design. It will introduce its requirements for both development and deployment. It also discusses the architecture that will be used in the decision and developing. In addition the data design and user interfaces of the system.

This document will be used as a tool guide in developing the system which is the Web-based Junk Shopping System.

## **1.2 Scope**

WJSS is a web application that facilitates the buying and selling of recyclable materials between companies that buy or collects recyclable materials such as junk shop and sellers such as residents and other establishment.

WJSS allows:

**Buyers that collects recyclable materials**

* + - Registration of authorized junk shop owners and other businesses that collect recyclable materials.
    - Posting of recyclable materials that the companies collects or accepts.
    - Bidding between junk shop owners and other businesses that collect recyclable materials.
    - Website notification and Email Notifications of seller who accepted the bid of the company, including the recyclable materials information to be collected.
    - Report generation such as history of recyclable materials collected.

**Residents and other establishments**

* + - Registration of potential clients or sellers like residents and commercial establishment owners
    - Posting of recyclable materials to sell
    - Sellers can choose from the businesses that offered a bid
    - Website Notification and Email Notifications if the bidding is done, if the buyer accept or decline the direct sell

**Admin or Start-up Business**

* + - Viewing of registered users such as sellers and companies
    - Report generation such as active users, history of transactions made per day and others

## **1.3 Document Overview**

The document is divided into 7 major sections:

**Section 1: Introduction** – provides an overview of the Software Design Document and the scope of the document.

**Section 2: Design Consideration** – provides the assumptions and   
dependencies in the context of design; drivers and constraints;   
hardware and software requirements and the risk and volatile   
areas, if applicable.

**Section 3: Architecture** – shows the architectural style and program structure of the system.

**Section 4: Data Design** – developers shall refer to this section for database model and schema.

**Section 5: User Interfaces** – provides the user interfaces and discusses the events and actions.

**Section 6: Report Design** – provides the narrative overview of the reports that can be generated from the system and the layout of each report.

**Section 7: Definitions, acronyms and abbreviations** – provides   
 definitions of all terms, acronyms and abbreviations needed for the SDD.

1. **DESIGN CONSIDERATION**

## **2.1 Assumption and Dependencies**

The following are the assumptions and dependencies of WJSS:

### **2.1.1 Assumptions**

* + - All those who are not yet logged in cannot access the system otherwise they are prompted to create account.
    - Devices must be in its minimum specification.
    - Users’ information should be updated constantly.
    - The system design and some of the defined requirements may change based from testing phase.

### **2.1.2 Dependencies**

* Deadlines – the team has requirements that must be fulfilled before or after working on another requirement.
* Deliverables – upon the submission of deliverables the team can determine the development of the project.
* Methodology – following the RAD (Rapid Application Development) Methodology will allow the team to figure out what the project is supposed to accomplish.
* Schedule – to drive the project schedule, dependencies and constraints are set on all activities during the project scheduling.
  1. **Drivers and Constraints**

**2.2.1 Drivers**

* **Usability** – The users has easily used or transact the website. It basically shows how information is presented and let the user view the product in a clear and concise way.
* **Secure** – The personal information of the users is protected and cannot be accessed by unauthorized personnel.
* **Responsive –** The website can adapt to the screen size or orientation of the device used in accessing the website such as smart phones.
* **Reliability–**The system is error free. The data inputted by the users is validated and verified before saving it to the database. The system also implemented business rules in the processes.
  + 1. **Constraints**
* **Time Constraint** – The team has limited time in developing the system and has to deal with time conflict in individual schedules of the developers.

## **2.3. System Environment**

### **2.3.1 Hardware Requirements**

|  |  |
| --- | --- |
| **Server Specifications – Sana Commerce** | |
| **Database** | **Specifications** |
| Processor | 2 x 1,6 GHz CPUor higher |
| RAM | 3 GB RAMor higher |
| HDD | 1x 40 GB of free space or higher |
| Recommended Microsoft Azure Virtual Machine Configuration | Basic Medium VM |
| OS | Windows Server 2008 |

### **2.3.2 Software Requirements**

|  |  |
| --- | --- |
| **System Environment** | **Software** |
| Deployment Platform |  |
| * Client | Windows 7 or higher |
| * Server | Microsoft .NET Framework 4.5 or higher |
| Integrated Development Environment (IDE) | Laravel version 5.4 or latest version |
| Database Management System (DBMS) Software | MySQL version 5.7.20 or latest version |
| Programming Language | JavaScript, PHP |
| Markup Language | HTML5, CSS3 |
| Cross-platform Web Server Solution Stack Package | XAMPP version 5.6.32 or higher version  Composer version v1.9.0 |

## **2.4. Risk and Volatile Areas**

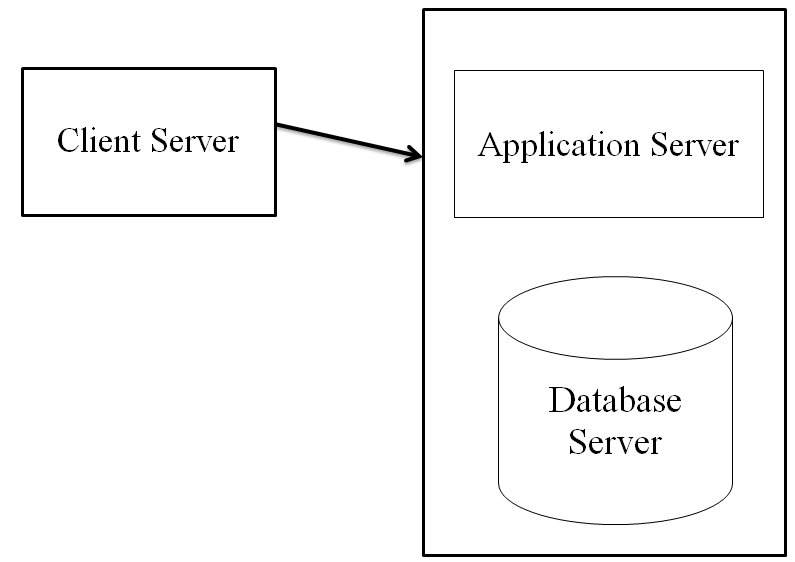
* **Power Interruption –** Since the system can be accessed through devices, power is important. Without the power which is the source of the device to be used, the users cannot access the system. The power can be referred to the electricity or the battery of the device.
* **Internet Issue**–To be able to access the system, they should have access to internet. It can also affect the performance of the website due to internet issues such as slow connection.
* **Server Maintenance** –When developers is fixing or updating the server, the users cannot access the system.

**3. ARCHITECTURE**

## **3.1. Architectural Style**

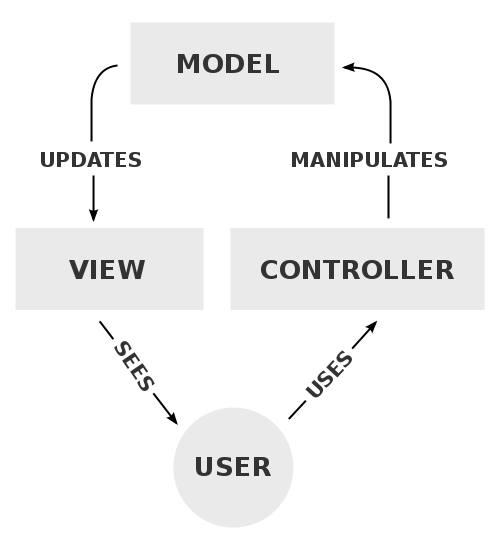
### **3.1.1 Physical Architecture**

For the deployment, WJSS will be using client-server architecture which consists of the client server which reserve the request of the end-users and the server which contains both the application server, containing the instruction of the application and the database server which store and retrieve information.



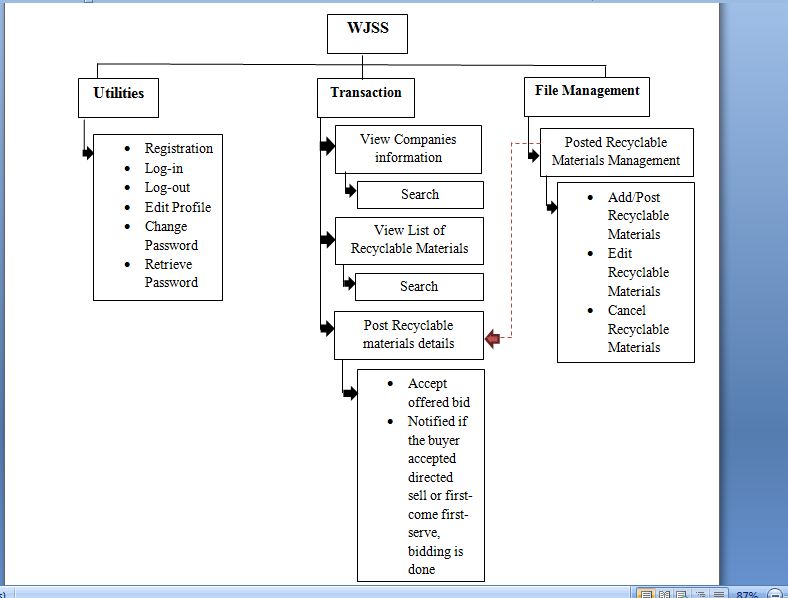
**3.1.2 Logical Architecture**

The WJSS will implement a Model View Controller (MVC) design pattern for a simpler data design, system maintenance and presentation of data. The familiarity of the project members to the architecture also helps in developing and maintaining the system.

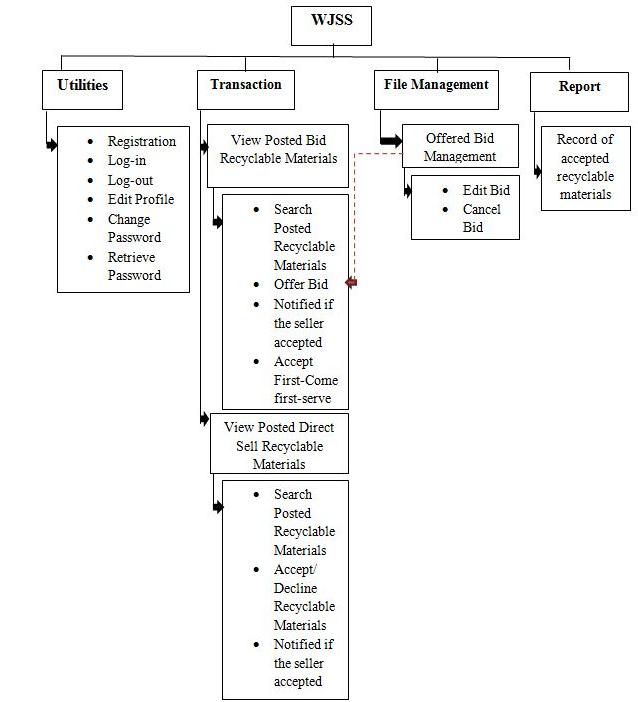


## **3.2 Program Structure**

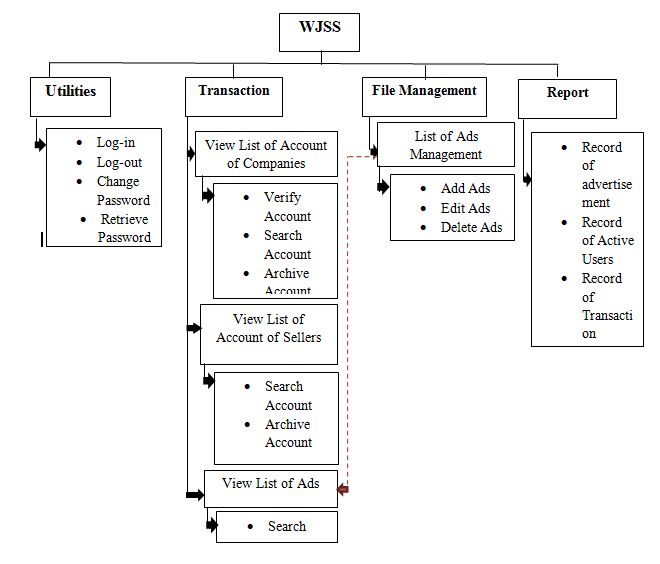
### **3.2.1 Web Structure of Seller**



### **3.2.2 Web Structure of Buyer**

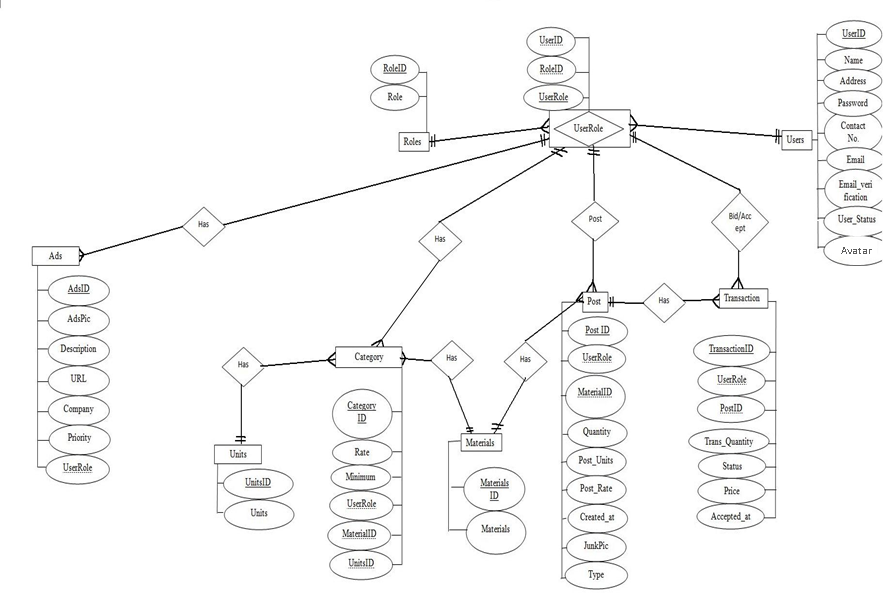


### **3.2.3 Web Structure of Administrator**



# **4. Data Design**

## **4.1 Database Model**

****

## **4.2 Database Schema**

### **4.2.1 Role**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fields** | **Type** | **Size** | **Domain Constraints** | **Description** | **Mandatory** |
| RoleID | Int | Max-5 | 0-9 | This is the primary key | Yes |
| Role | Varchar | Max-50 | A-Z, a-z  It can be Admin, Buyer or Seller | This is the type of the user | Yes |

### **4.2.2 UserRole**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fields** | **Type** | **Size** | **Domain Constraints** | **Description** | **Mandatory** |
| UserRole | Int | Max-5 | 0-9 | This is the primary key | Yes |
| RoleID | Int | Max-5 | 0-9 | This is the foreign key to identify what role the user is | Yes |
| UserID | Int | Max-5 | 0-9 | This is the foreign key to identify the user | Yes |

### **4.2.3 Users**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fields** | **Type** | **Size** | **Domain Constraints** | **Description** | **Mandatory** |
| UserID | Int | Max-5 | 0-9 | This is the primary key | Yes |
| Name | Varchar | Min-8 Max-20 | A-Z, a-z | This is the name of the user | Yes |
| Password | Varchar | Min-8 | A-Z, a-z, 0-9 | This is the password of the user | Yes |
| Email | Varchar | Min-8 Max-20 | A-Z, a-z, 0-9, special characters | This is the email of the user | Yes |
| Email\_Verification | Date | N/A | yyyy-mm-dd | This is the date when the user verifies his/her email | Yes |
| Contact No. | Int | Min-11 | If Phil, start with 0+10 digit # | This is the contact number of the user | Yes |
| Address | Varchar | Max-20 | A-Z, 0-9  w/-,.and  #; city/province and country | This is the address of the user | Yes |
| Users\_Status | Varchar | Max-20 | A-Z, a-z, either active or deactivated | This is the status of the account | Yes |

### **4.2.4 Post**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fields** | **Type** | **Size** | **Domain Constraints** | **Description** | **Mandatory** |
| PostID | Int | Max-5 | 0-9 | This is the primary key | Yes |
| UserRole | Int | Max-5 | 0-9 | This is the foreign key to identify the user that post | Yes |
| Material ID | Int | Max-5 | 0-9 | This is a foreign key to identify the material | Yes |
| Quantity | Int | Max-5 | 0-9 | This is the quantity of recyclable materials | Yes |
| Post\_Units | Varchar | Max-20 | A-Z, a-z  It can be by kilos or by pieces | This is the measurement of the recyclable materials | Yes |
| Post\_Rate | Int | Min-5 | 0-9,  Php 00.00 | This is the rate of the posted recyclable materials | Yes |
| Created\_at | Date | N/A | yyyy-mm-dd | This is the date when the seller posted the recyclable materials | Yes |
| JunkPic | Varchar | Max-20 | A-Z, a-z,0-9, file extension: .jpeg,.jpg,.png and other image file extension | This is the image of the recyclable materials posted by the seller | Yes |
| Type | Varchar | Max-20 | A-Z, a-z  It can be by bidding or direct sell or first-come first-serve | This is the type of transaction chosen by the seller | Yes |

### **4.2.5 Transaction**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fields** | **Type** | **Size** | **Domain Constraints** | **Description** | **Mandatory** |
| TransactionID | Int | Max-5 | 0-9 | This is the primary key | Yes |
| UserRole | Int | Max-5 | 0-9 | This is the foreign key to identify the user that bid or accepted the recyclable materials | Yes |
| PostID | Int | Max-5 | 0-9 | This is the foreign key to identify the post | Yes |
| Status | Varchar | Max-20 | A-Z, a-z  It can be pending or bidding or accepted or declined | This is the status of the transaction | Yes |
| Price | Int | Min-5 | 0-9,  Php 00.00 | This is the price of the recyclable materials | Yes |
| Quantity | Int | Max-20 | 0-9 | This is the quantity that the buyers want to buy | Yes |
| Accepted\_at | Date | N/A | yyyy-mm-dd | This is the date when the user had accepted | Yes |

### **4.2.6 Materials**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fields** | **Type** | **Size** | **Domain Constraints** | **Description** | **Mandatory** |
| MaterialsID | Int | Max-5 | 0-9 | This is the primary key | Yes |
| Materials | Varchar | Max-20 | A-Z, a-z | This identify the junk type | Yes |

### **4.2.7 Category**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fields** | **Type** | **Size** | **Domain Constraints** | **Description** | **Mandatory** |
| CategoryID | Int | Max-5 | 0-9 | This is the primary key | Yes |
| Rate | Int | Min-5 | 0-9,  Php 00.00 | This is the base price of the recyclable materials | Yes |
| Minimum | Int | Max-5 | 0-9 | This is minimum the companies accept | Yes |
| UserRole | Int | Max-5 | 0-9 | This is the foreign key to identify the buyer or admin | Yes |
| MaterialID | Int | Max-5 | 0-9 | This is the foreign key to identify the material | Yes |
| UnitsID | Int | Max-5 | 0-9 | This is the foreign key to identify the unit | Yes |

### **4.2.8 Units**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fields** | **Type** | **Size** | **Domain Constraints** | **Description** | **Mandatory** |
| UnitsID | Int | Max-5 | 0-9 | This is the primary key | Yes |
| Units | Varchar | Max-20 | A-Z, a-z, either kilos or pieces | This is the measurement units of the recyclable materials | Yes |

### **4.2.9 Ads**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fields** | **Type** | **Size** | **Domain Constraints** | **Description** | **Mandatory** |
| AdsID | Int | Max-5 | 0-9 | This is the primary key | Yes |
| AdsPic | Varchar | Max-20 | A-Z, a-z,0-9, file extension: .jpeg,.jpg,.png and other image file extension | This is the image for the ads | Yes |
| Description | Varchar | Max-20 | A-Z, a-z,0-9 | This is the description or slogan of the advertisement | Yes |
| URL | Varchar | Max-20 | A-Z, a-z, 0-9 | This is the website of the ads for redirect | Yes |
| Company | Varchar | Max-20 | A-Z, a-z, 0-9 | This is the name of the company who owns the advertisement | Yes |
| Priority | Varchar | Max-20 | A-Z, a-z, either Low, Medium, High | This is the level of the priority of the Ads | Yes |
| UserRole | Int | Max-5 | 0-9 | This is the foreign key to identify the admin | Yes |

# **5. Graphical User Interface**

## **5.1 Registration**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following: | | | |
| Name | Textbox | None | Validates if filled-up |
| Email | Textbox | None | Validates if email is extended by @email.com |
| Contact No. | Textbox | None | Validates if started by 09 |
| Address | Textbox | None | None |
| Password | Textbox | None | Validates if had 8 length with alphanumeric characters |
| Confirm Password | Textbox | None | Validates if had 8 length with alphanumeric characters and match the password fields |
| Role | Checkbox | OnCheck | Check the box |
| Avatar | File Textbox | Upload | Validates if extended with image format |
| Submit the form | | | |
| Submit | Button | OnClick | Save to the table of users and redirect the user to log-in page |

## **5.2Log-in**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following: | | | |
| Email | Textbox | None | Validates if email is extended by @email.com |
| Password | Textbox | None | Validates if had 8 length with alphanumeric characters |
| Submit the form | | | |
| Log-in | Button | OnClick | Redirect to My Post page if seller, Post page if buyer, or list of account page if admin |

## **5.3Log-out**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Submit the form | | | |
| Log-out | Button | OnClick | Redirect to Home page |

## **5.4Change Password**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following: | | | |
| Old Password | Textbox | None | Validates if had 8 length with alphanumeric characters and match with the current saved password |
| New Password | Textbox | None | Validates if had 8 length with alphanumeric characters |
| Confirm Password | Textbox | None | Validates if had 8 length with alphanumeric characters and match the new password fields |
| Submit the form | | | |
| Save | Button | OnClick | Update the password of the user |

## **5.5 Forgot Password**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following: | | | |
| Email | Textbox | None | Validates if email is extended by @email.com and saved in the database |
| Submit the form | | | |
| Send | Button | OnClick | Send the password to the email |

## **5.6Edit Profile**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following: | | | |
| Name | Textbox | None | Validates if filled-up |
| Email | Textbox | Disabled | None |
| Contact No. | Textbox | None | Validates if started by 09 |
| Address | Textbox | None | None |
| Submit the form | | | |
| Submit | Button | OnClick | Update the users details and refresh the page |

## **5.7Post Recyclable Materials**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following: | | | |
| Material | Dropdown | Select | Validates if exist in the materials table |
| Post pic | Textbox | None | Validates if extended with image format such as .jpg, .png and others |
| Quantity | Textbox | None | Validates if minimum requirement from the categories table |
| Units | Dropdown | Select | Validates if exits in the units table |
| Type | Dropdown | Select | Validates if filled up |
| Submit the form | | | |
| Post | Button | OnClick | Add to the post table and redirect to My Post page |

## **5.8Cancel Posted Recyclable Materials**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Submit the form | | | |
| Delete | Button | OnClick | Delete from the post table and refresh the page |

## **5.9Edit Posted Recyclable Materials**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following: | | | |
| Post type | Dropdown | disabled | Validates if exist in the materials table |
| Post pic | Textbox | None | Validates if extended with image format such as .jpg, .png and others |
| Quantity | Textbox | None | Validates if minimum requirement from the categories table |
| Units | Dropdown | disabled | Validates if exits in the units table |
| Submit the form | | | |
| Save | Button | OnClick | Update the post details and redirect to My Post page |

## **5.10Search buyers**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following: | | | |
| Search | Textbox | None | None |
| Submit the form | | | |
| Search | Button | OnClick | Search if buyer data exist and view to the user |

## **View my posted recyclable materials**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Clicks the My Post | | | |
| My Post | Navbar | OnClick | View My post table |

## **5.12Accept offered Bid**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Submit the form | | | |
| Accept | Button | OnClick | Update transaction status to accepted and notifies the buyer |

## **5.13Offer Bid**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following | | | |
| Price | Textbox | None | Validate if enters and not less than the minimum price |
| Submit the form | | | |
| Bid | Button | OnClick | Save to the transaction table and redirect to the Post pages |

## **5.14Cancel Offered Bid**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Submit the form | | | |
| Delete | Button | OnClick | Delete the bid from the transaction page and refresh the page |

## **5.15Edit offered bid**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following | | | |
| Price | Textbox | None | Validate if enters and not less than the minimum price and update the bid details then redirect to the Bid page |
| Submit the form | | | |
| Bid | Button | OnClick | Save to the transaction table and redirect to the Post pages |

## **5.16Accept Direct Sell**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Submit the form | | | |
| Accept | Button | OnClick | Save to the transaction table then notifies the seller and redirect to the Direct Sell pages |

## **5.17Decline Direct Sell**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Submit the form | | | |
| Decline | Button | OnClick | Save to the transaction table then notifies the seller and redirect to the Direct Sell pages |

## **5.18Add recyclable materials**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Task** | **Object** | **Event** | | | **Event Details** |
| Enters the following: | | | | | |
| Material | Dropdown Input | | Select/ Input | Validate if series of characters and add to the materials table | |
| Units | Dropdown | | Select | Validate if exist in the units table | |
| Minimum | Textbox | | None | Validate if number and not less than zero | |
| Submit the form | | | | | |
| Add | Button | OnClick | | | Add to the materials table and redirect to materials page |

## **5.19Edit recyclable materials**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Task** | **Object** | **Event** | | | **Event Details** |
| Enters the following: | | | | | |
| Material | Dropdown Input | | Select/ Input | Validate if series of characters and add to the materials table | |
| Units | Dropdown | | Select | Validate if exist in the units table | |
| Minimum | Textbox | | None | Validate if number and not less than zero | |
| Submit the form | | | | | |
| Save | Button | OnClick | | | Update materials details and redirect to materials page |

## **5.20Search posted recyclable materials**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following: | | | |
| Search | Textbox | None | None |
| Submit the form | | | |
| Search | Button | OnClick | Search if posted recyclable materials data exist and view to the user |

## **5.21 View accepted recyclable materials**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Clicks the My Post | | | |
| Transaction | Navbar | OnClick | View accepted recyclable materials |

## **5.22Buy posted recyclable materials**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following | | | |
| Quantity | Text | None | Validates if number and maximum of the inputted quantity of post |
| Submit the form | | | |
| Buy | Button | OnClick | Save to the transaction table then notifies the seller and redirect to the post page |
|  |

## **5.23Search Account of Sellers**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following: | | | |
| Search | Textbox | None | None |
| Submit the form | | | |
| Search | Button | OnClick | Search if sellers data exist and view to the user |

## **5.24Search Account of Buyer**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Enters the following: | | | |
| Search | Textbox | None | None |
| Submit the form | | | |
| Search | Button | OnClick | Search if buyers data exist and view to the user |

## **5.25Deactivate Account**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Submit the form | | | |
| Deactivate | Button | OnClick | Update users status then notifies the user and refresh the page |

## **5.26Activate Account**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Submit the form | | | |
| Activate | Button | OnClick | Update users status then notifies the user and refresh the page |

## **5.27Add Ads**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Task** | **Object** | **Event** | | | **Event Details** |
| Enters the following: | | | | | |
| Company | Textbox | | None | Validate if filled-up | |
| Ads Pic | Textbox | | None | Validates if extended with image format such as .jpg, .png and others | |
| Description | Textbox | | None | Validate if filled-up | |
| URL | Textbox | | None | Validates if extended with web format such as .html, .com and others | |
| Priority | Dropdown | | Select | Validates if filled-up | |
| Submit the form | | | | | |
| Add | Button | OnClick | | | Add to the Ads table and redirect to ads page |

## **5.28Edit Ads**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Task** | **Object** | **Event** | | | **Event Details** |
| Enters the following: | | | | | |
| Company | Textbox | | None | Validate if filled-up | |
| Ads Pic | Textbox | | None | Validates if extended with image format such as .jpg, .png and others | |
| Description | Textbox | | None | Validate if filled-up | |
| URL | Textbox | | None | Validates if extended with web format such as .html, .com and others | |
| Priority | Dropdown | | Select | Validates if filled-up | |
| Submit the form | | | | | |
| Save | Button | OnClick | | | Update Ads details and redirect to ads page |

## **5.29Delete Ads**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Object** | **Event** | **Event Details** |
| Submit the form | | | |
| Delete | Button | OnClick | Delete from the ads table and refresh the page |

**APPENDIX F**

# **F. SOFTWARE PROJECT TEST PLAN (SPTP)**



**Web-based Junk**

**Shopping System**

Version 0.2

**Prepared By:**

SeahVashti S. Corpuz

Rona Beryl G. De Guzman

Frederick F. Layus Jr

Raymarc Neil J. Miranda

November 2019

**Revision History**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version #** | **Implemented**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 0.1 | Rona Beryl G. De Guzman | 09/23/2019 |  |  | Revision of Test Functionalities |
| 0.2 | Rona Beryl G. De Guzman | 09/23/2019 |  |  | Revision of Test Functionalities |

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**1. Introduction**

1. **Purpose**

The Test Plan document serves as guidelines to developers and testers which describes how the testing activity of Web-based Junk Shopping System (WJSS) is performed to ensure the quality of the product. The Test Plan document includes test strategy, test methodology, and testing schedule.

1. **Audience**

The target audience of this document is the development team who has planned and implemented the testing activities specified in this document. Another audience is the stakeholders (user and panel reviewers) who provided input and recommendations on this document to ensure accountability.

1. **Test Objectives**

The main goal is to validate and verify the functionalities of the system. The following are the specific objective of this document:

* + 1. **Provide Test Coverage Metrics**

This will allow the audience to analyze, track, and measure the effectiveness of the project by checking the processes for errors and how it performs on different environments.

* + 1. **Validate and verify system response**

This will be implemented for use cases under varying workload conditions to ensure that the expected outcome or response is the actual output of the system.

* + 1. **Ensure stakeholder requirements for quality**

The data inputted to the system should be appropriate to what the user needs and assist in the decision making of the users. In addition the policies and business rules should have followed in the process of the system.

1. **Scope**

**1.4.1 Features to be tested**

The features to be tested are the functions of the Web-based Junk Shopping System such as registration, posting of recyclable materials and others.

* + 1. **Items that will not be tested**

The internet/WIFI backbone will be used during the testing activities. However, no tests will be done directly to the communications backbone.

Testing operations will be performed manually by the intended audience.

1. **Relationship to other documents**

This part discusses the relationship of the test plan to the other documents produced during the development phases.

**1.5.1 Relationships to documents**

Functionality tests relating to users story are developed from the use case descriptions in the SRS (software requirements specification) document. Performance tests derived from non-functional requirements are developed from the non-functional requirements in the Software Design Document (SDD).

Unit/component and Integration tests are developed from the SDD. The integration tests generally come from the overall package diagram describing the architecture of the system. The architecture is also used to help in determining the integration test approach. The test environment (hardware/software) is also derived from the SDD.

**1.5.2 Test naming schemes**

The names of test cases will indicate from where they have been derived using a system of prefixes. The following are the prefixes:

|  |  |
| --- | --- |
| **USERS STORY** | **FUNCTION** |
| AC-GS01 | Registration |
| AC-GS02 | Log-in |
| AC-GS03 | Log-out |
| AC-GS04 | Change password |
| AC-GS05 | Forgot password |
| AC-GS06 | Edit Profile |
| AC-SS01 | Post Recyclable Materials |
| AC-SS02 | Cancel Posted Recyclable Materials |
| AC-SS03 | Edit Posted Recyclable Materials |
| AC-SS04 | Search buyers |
| AC-SS05 | View posted recyclable materials |
| AC-SS06 | Accept offered Bid |
| AC-SS07 | Confirm Transaction |
| AC-BS01 | Offer Bid |
| AC-BS02 | Cancel Offered Bid |
| AC-BS03 | Edit offered bid |
| AC-BS04 | Accept Direct Sell |
| AC-BS05 | Decline Direct Sell |
| AC-BS06 | Add recyclable materials |
| AC-BS07 | Edit recyclable materials |
| AC-BS08 | Search posted recyclable materials |
| AC-BS09 | View accepted recyclable materials |
| AC-BS10 | Buy posted recyclable materials |
| AC-AS01 | Search Account of Sellers |
| AC-AS02 | Search Account of Buyer |
| AC-AS03 | Deactivate Account |
| AC-AS04 | Activate Account |
| AC-AS06 | Add Ads |
| AC-AS07 | Edit Ads |
| AC-AS08 | Delete Ads |

1. **Test Strategy**

The acceptance criteria are divided according to Users Story processes:

|  |  |  |
| --- | --- | --- |
| **REQUIREMENTID** | **FUNCTION/USERS STORY** | **RELEASESCHEDULE** |
| AC-GS01 | Registration | Release 1 |
| AC-GS02 | Log-in | Release 1 |
| AC-GS03 | Log-out | Release 1 |
| AC-GS04 | Change password | Release 1 |
| AC-GS05 | Retrieve password | Release 1 |
| AC-GS06 | Edit Profile | Release 1 |
| AC-SS01 | Post Recyclable Materials | Release 1 |
| AC-SS02 | Cancel Posted Recyclable Materials | Release 1 |
| AC-SS03 | Edit Posted Recyclable Materials | Release 1 |
| AC-SS04 | Search buyers | Release 1 |
| AC-SS05 | View my posted recyclable materials | Release 1 |
| AC-SS06 | Accept offered Bid | Release 1 |
| AC–SS07 | Confirm transaction | Release 1 |
| AC-BS01 | Offer Bid | Release 1 |
| AC-BS02 | Cancel Offered Bid | Release 1 |
| AC-BS03 | Edit offered bid | Release 1 |
| AC-BS04 | Accept Direct Sell | Release 1 |
| AC-BS05 | Decline Direct Sell | Release 1 |
| AC-BS06 | Add recyclable materials | Release 1 |
| AC-BS07 | Edit recyclable materials | Release 1 |
| AC-BS08 | Delete recyclable materials | Release 1 |
| AC-BS09 | Search posted recyclable materials | Release 1 |
| AC-BS10 | View accepted recyclable materials | Release 1 |
| AC-BS11 | Buy posted recyclable materials | Release 1 |
| AC-AS01 | Search Account of Sellers | Release 1 |
| AC-AS02 | Search Account of Buyer | Release 1 |
| AC-AS03 | Deactivate Account | Release 1 |
| AC-AS04 | Activate Account | Release 1 |
| AC-AS05 | Verify Buyers Account | Release 1 |
| AC-AS06 | Add Ads | Release 1 |
| AC-AS07 | Edit Ads | Release 1 |
| AC-AS08 | Delete Ads | Release 1 |

1. **Pass/Fail criteria**

**3.1EntryCriteria**

The following Entry Criteria are supposed to be true before any testing stage starts:

**3.1.1**The User Acceptance created by the developers and be reviewed and approved by the technical adviser

**3.1.2**The version of Web-based Junk Shopping System application is built for testing

**3.1.3**All developed code must have undergone unit/component testing.

**3.2ExitCriteria**

The following Exit Criteria are supposed to be true before the unit test starts:

**3.2.1**All major issues regarding construction and testing are resolved.

**3.2.2**All expected and actual results are captured and documented with the Users story acceptance criteria.

**3.2.3**There is no functional defects outstanding that bring unacceptable business risks when web-based Junk Shopping System goes into production.

* 1. **Suspension Criteria**

The Test Team may discontinue partial or full testing activities if any of the following happens:

**3.3.1**When the environment is not viable for testing.

**3.3.2**Lack in resources required by the testing team (e.g. Laptop)

**3.3.3**Sudden changes in stakeholder requirements.

**3.4ResumptionCriteria**

The Test Team may discontinue partial or full testing activities if any of the following happens:

**3.4.1**The testing environment is already viable

**3.4.2**When a fix is successfully implemented and the Testing Team is notified to continue testing

**3.4.3**Complete resources are provided.

**3.4.4**Change in requirements discussed with the stakeholders and negotiated extension in delivery

1. **Test Methodology**

**4.1 Testing Environment**

**4.1.1 Facilities required**

Internet connection is needed to provide access to the application.

**4.1.2 Hardware required**

A Laptop is used to test the function and performance of the application.

**4.1.3 Software required**

The Software requirements stated in the SDD will be used for the test execution.

**4.2 General Test Strategy**

1. **White Box test**

White Box testing examines the program structure and derives test data from the program logic/code. Unit testing will be executed while coding the system.

**4.2.2 Black Box Testing**

Black box testing examines the input and output of the system. Integration and system testing will be done in this testing. For integration testing, bottom-up testing is done by the team. The testing team, integrated from the detailed units to the general unit of the system. While for the system testing, user’s story acceptance test is produced in this testing phase.

**4.3 Test Result Recording**

The test in the unit and integration test will not be documented because it will be treated as an activity or process associated with the coding process. The system process will be further discussed in the Acceptance Tests with the remarks if pass or fail. User acceptance test will be documented in the final documentation for the approval in the system and will also serve as the contract between the developers and the stakeholders.

**4.4 Roles and Responsibilities**

**4.4.1 Description of Roles and Responsibilities**

The Test Lead is responsible for oversight of testing on the project. This person is also responsible for the processes used to ensure the quality of the deliverable such as SRS and SDD. The Test Lead is also is responsible for conducting quality assurance testing and executing on the test plan.

The Developer is responsible for the development of the creation and execution of test scripts. They are also responsible being the functional testers of the project.

During the User Acceptance Test, the stakeholders will test the software to make sure it can handle required tasks in real-world scenarios, according to requirement specifications.

**4.4.2Resources**

Below is a table containing the names of the persons who will be taking the responsibilities discussed above.

|  |  |  |
| --- | --- | --- |
| **Role** | **Resource Assigned** | **Duration** |
| Test Lead | Rona Beryl G. De Guzman | All throughout |
| Developers | Seah Vashti S. Corpuz, Rona Beryl G. De Guzman, Frederick F. Layus Jr, Raymarc Neil J. Miranda | All throughout |
| Unit Testers | Rona Beryl G. De Guzman, Frederick F. Layus Jr, Raymarc Neil J. Miranda | All throughout |
| System Integration Tester/ Programming Lead | Raymarc Neil J. Miranda | All throughout |
| Requirements Analysts/System Testers | Cherrie L. Almazan, Hydi D. Toyeng, Erna-Kristi N. Martinez, Lolita B. Narag  Hydi D. Toyeng,MIT  Panel Member  Erna-Kristi N. Martinez,MIT  Panel Member  Lolita B. Narag,MBE, MBA  Panel Member  Hydi D. Toyeng,MIT  Panel Member  Erna-Kristi N. Martinez,MIT  Panel Member  Lolita B. Narag,MBE, MBA  Panel MemberJr., Jonan Bie, Lyra Padua | All throughout |

**5 Additional Considerations**

This part identifies the set of users who will be testing the functionalities of the application. They will give the approval for deployment if the functionalities exhibited by the system really fit their needs as individual users of the system.

**Pilot Users for the User Acceptance Test:**

**1st Release**

5 Development Team:

* SeahVashti S. Corpuz
* Rona Beryl G. De Guzman
* Frederick F. Layus Jr
* Raymarc Neil J. Miranda

3 Panelists

* Hydi D. Toyeng
* Erna-Kristi N. Martinez
* Lolita B. Narag

1 Class Adviser/ Technical Adviser

* Cherrie L. Almazan

**6 Testing schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1st Release** |  |  |  |  |
| **Test Phase** | **Time** | **Date Started** | **Date Ended** | **Owner** |
| Test Plan Creation | 4 days | 08/31/19 | 09/04/19 | Test Lead, Developers |
| Unit Testing | 2 weeks | 09/23/19 | 09/30/19 | Test Lead, Developers |

**APPENDIX G**

# **G SOFTWARE PROJECT ACCEPTANCE CRITERIA (SPAC)**



**Web-based Junk**

**Shopping System**

Version 0.3

**Prepared By:**

SeahVashti S. Corpuz

Rona Beryl G. De Guzman

Frederick F. Layus Jr

Raymarc Neil J. Miranda

November 2019

## **AC-GS01-Registration**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-GS01 | | |
| **Users Story Acceptance Criteria Description:** | | Allows user to register or create his/her account | | |
| **Users:** | | Sellers and buyers | | |
| **Function/Features:** | | Registration | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid and complete data on all the fields | Name: Rea Gonzales  Email: [Rea@gmail.com](mailto:Rea@gmail.com)  Contact No: 097625721  Address: Quezon Hill, Baguio City  Password: R123afcs  Confirm Password: R123afcs Role: Buyer, Sellers | Email Confirmed | Save data to the database and notifies the users. | Passed |
| Enters invalid and complete data on all the fields | Name: Rea Gonzales  Email: [Rea@.com](mailto:Rea@gmail.com)  Contact No: 21  Address: gyugyghy  Password: afcs  Confirm Password: R  Role: Buyer, Sellers | Submit form | Refresh the form and notifies the user that invalid data is submitted | Passed |
| Enters valid and incomplete data on all the fields | Name: Rea Gonzales  Email: [Rea@gmail.com](mailto:Rea@gmail.com)  Contact No:  Address:  Password:  Confirm Password:  Role: Buyer, Sellers | Submit form | Refresh the form and notifies the user that there are fields that are not filled | Passed |
| Enters invalid and incomplete data on all the fields | Name:  Email: [Rea@.com](mailto:Rea@gmail.com)  Contact No:  Address:  Password: R  Confirm Password:  Role: Buyer, Sellers | Submits form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Enters existing account | Name: seller  Email: [seller@gmail.com](mailto:seller@gmail.com)  Contact No: 098976734  Address: Quezon Hill, Baguio City  Password: seller12  Confirm Password: seller12  Role: Sellers | Submits form | Notifies the user that there is already existing account | Passed |

## **AC-GS02–Log-in**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-GS02 | | |
| **Users Story Acceptance Criteria Description:** | | Allows user to log-in to his/ her account | | |
| **Users:** | | Sellers, Buyers, Admin | | |
| **Function/Features:** | | Log-in | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid and complete data on all the fields. | Email: [seller@gmail.com](mailto:seller@gmail.com)  Password: seller12 | Submit form | Search if the user is seller, Redirect to My post page | Passed |
| Enters valid and complete data on all the fields. | Email: [buyer@gmail.com](mailto:buyer@gmail.com)  Password: buyer123 | Submit form | Search if the user is buyer, Redirect to Post page | Passed |
| Enters valid and complete data on all the fields. | Email: [admin@gmail.com](mailto:admin@gmail.com)  Password: admin123 | Submit form | Search if the user is admin, Redirect to List of account of Seller page | Passed |
| Enters invalid and complete data on all the fields | Email: [@gmail.com](mailto:admin@gmail.com)  Password: admin | Submit form | Refresh the form and notifies the user that invalid data is submitted | Passed |
| Enters valid and incomplete data on all the fields | Email: [admin@gmail.com](mailto:admin@gmail.com)  Password: | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Enters invalid and incomplete data on all the fields | Email: [@gmail.com](mailto:admin@gmail.com)  Password: | Submits form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Enters non- existing account | Email: [rrrrrrr@gmail.com](mailto:rrrrrrr@gmail.com)  Password: rrrrr123 | Submits form | Notifies the user that no existing account and recommend to register | Passed |

## **AC-GS03–Log-out**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-GS03 | | |
| **Users Story Acceptance Criteria Description:** | | Allows user to log-out | | |
| **Users:** | | Sellers, buyers, admin | | |
| **Function/Features:** | | Log-out | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Clicks to log-out | N/A | End Session | Redirect to home page | Passed |
| Cancel Log-out | N/A | Submit form | Refresh the form or page they are currently in | Passed |

## **AC-GS04–Change Password**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-GS04 | | |
| **Users Story Acceptance Criteria Description:** | | Allows user to change his/her password | | |
| **Users:** | | Sellers, buyers, admin | | |
| **Function/Features:** | | Change Password | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid and complete data on all the fields. | Old Password: seller123  New Password: seller12a  Confirm Password: seller12a | Submit form | Update users password | Passed |
| Enters invalid and complete data on all the fields | Old Password: selleraaa  New Password: se12a  Confirm Password: sel2a | Submit form | Refresh the form and notifies the user that invalid data is submitted | Passed |
| Enters valid and incomplete data on all the fields | Old Password:  New Password: seller12a  Confirm Password: | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Enters invalid and incomplete data on all the fields | Old Password: sellerAAA  New Password:  Confirm Password: | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Cancel form/page | N/A | Submit form | Refresh the form/page | Passed |

## **AC-GS05–Forgot Password**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-GS05 | | |
| **Users Story Acceptance Criteria Description:** | | Allows user to retrieve his/her password | | |
| **Users:** | | Sellers, buyers, admin | | |
| **Function/Features:** | | Retrieve Password | | |
| **Tested By:** | | Frederick F. Layus Jr | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid data on the fields. | Email: seller@gmail.com | Submit form | Notifies the user and sent his/her password to his/her email | Passed |
| Enters invalid data on the fields | Email: @gmail.com | Submit form | Refresh the form and notifies the user that invalid data is submitted | Passed |
| Enters incomplete data the fields | Email: | Submit form | Refresh the form and notifies the user that there are fields that are not filled | Passed |
| Cancel form/page | N/A | Submit form | Refresh the form/page | Passed |

## **AC-GS06 –Edit Profile**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-GS06 | | |
| **Users Story Acceptance Criteria Description:** | | Allows user to edit his/her personal information/ profile | | |
| **Users:** | | Sellers, buyers, admin | | |
| **Function/Features:** | | Edit profile | | |
| **Tested By:** | | Frederick F. Layus Jr | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid and complete data on all the fields. | Name: Rea Gonzales  Email: [GON@gmail.com](mailto:GON@gmail.com)  Contact No: 097675721  Address: Quezon Hill, Baguio City | Submit form | Update personal information of the user and notifies the user | Passed |
| Enters invalid and complete data on all the fields | Name: Rea Gonzales  Email: [@gmail.com](mailto:GON@gmail.com)  Contact No: 21  Address: asfsfs | Submit form | Refresh the form and notifies the user that invalid data is submitted | Passed |
| Enters valid and incomplete data on all the fields | Name: Rea Gonzales  Email:  Contact No: 097675721  Address: | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Enters invalid and incomplete data on all the fields | Name:  Email: [@gmail.com](mailto:GON@gmail.com)  Contact No: 097675721  Address: fdgdfhf | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Cancel form/page | N/A | Submit form | Refresh the form/page | Passed |

## **AC-SS01 –Post Recyclable Materials**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-SS01 | | |
| **Users Story Acceptance Criteria Description:** | | Allows seller to post recyclable materials | | |
| **Users:** | | Sellers | | |
| **Function/Features:** | | Post Recyclable Materials | | |
| **Tested By:** | | Rona Beryl G. De Guzman | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid and complete data on all the fields. | Material: Plastic Bottle  Post pic: Plastic.jpg  Quantity: 5  Units: Kilos  Type: Bidding | Submit form | Save to database and notifies the buyer | Passed |
| Enters invalid and complete data on all the fields | Material: Plastic Bottle  Post pic: Plastic.html  Quantity: 0  Units: Kilos  Type: Bidding | Submit form | Refresh the form and notifies the user that invalid data is submitted | Passed |
| Enters valid and incomplete data on all the fields | Material: Plastic Bottle  Post pic:  Quantity:  Units: Kilos  Type: Bidding | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Enters invalid and incomplete data on all the fields | Material: Plastic Bottle  Post pic:  Quantity: 0  Units: Kilos  Type: Bidding | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Cancel form/page | N/A | Submit form | Refresh the form/page | Passed |

## **AC-SS02–Cancel Posted Recyclable Materials**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-SS02 | | |
| **Users Story Acceptance Criteria Description:** | | Allows seller to Cancel Posted Recyclable Materials | | |
| **Users:** | | Sellers | | |
| **Function/Features:** | | Cancel Posted Recyclable Materials | | |
| **Tested By:** | | Rona Beryl G. De Guzman | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Cancel Posted Recyclable Materials | N/A | Either No current bidding, or  Hasn’t accepted if direct sell or first-come first-serve | Delete posted recyclable materials | Passed |
| Cancel Posted Recyclable Materials | N/A | Either there’s a current bid, or has accepted by the buyers | Notifies the seller that posted recyclable materials cannot be deleted | Passed |

## **AC-SS03 –Edit Posted Recyclable Materials**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-SS03 | | |
| **Users Story Acceptance Criteria Description:** | | Allows seller to Edit Posted Recyclable Materials | | |
| **Users:** | | Sellers | | |
| **Function/Features:** | | Edit Posted Recyclable Materials | | |
| **Tested By:** | | Rona Beryl G. De Guzman | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid and complete data on all the fields. | Post pic: Plastic.jpg  Quantity: 5 | Either No current bidding, or  Hasn’t accepted if direct sell or first-come first-serve | Save to database and notifies the buyer | Passed |
| Enters invalid and complete data on all the fields | Post pic: Plastic.html  Quantity: 0 | Either No current bidding, or  Hasn’t accepted if direct sell or first-come first-serve | Refresh the form and notifies the user that invalid data is submitted | Passed |
| Enters valid and incomplete data on all the fields | Post pic:  Quantity: | Either No current bidding, or  Hasn’t accepted if direct sell or first-come first-serve | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Enters invalid and incomplete data on all the fields | Post pic:  Quantity: 0 | Either No current bidding, or  Hasn’t accepted if direct sell or first-come first-serve | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Enters valid and complete data on all the fields. | Post pic: Plastic.jpg  Quantity: 5 | Either there’s a current bid, or has accepted by the buyers | Notifies the seller that posted recyclable materials cannot be edited | Passed |
| Enters invalid and complete data on all the fields | Post pic: Plastic.html  Quantity: 0 | Either there’s a current bid, or has accepted by the buyers | Notifies the seller that posted recyclable materials cannot be edited | Passed |
| Enters valid and incomplete data on all the fields | Post pic:  Quantity: | Either there’s a current bid, or has accepted by the buyers | Notifies the seller that posted recyclable materials cannot be edited | Passed |
| Enters invalid and incomplete data on all the fields | Post pic:  Quantity: 0 | Either there’s a current bid, or has accepted by the buyers | Notifies the seller that posted recyclable materials cannot be edited | Passed |
| Cancel form/page | N/A | Submit form | Refresh the form/page | Passed |

## **AC-SS04 –Search buyers**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-SS04 | | |
| **Users Story Acceptance Criteria Description:** | | Allows seller to search buyers | | |
| **Users:** | | Sellers | | |
| **Function/Features:** | | Search buyers | | |
| **Tested By:** | | Rona Beryl G. De Guzman | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid data in the search field | Search: Metal | Submit form | View list of buyers that equivalent to the search data | Passed |
| Enters invalid data in the search fields | Search: 7777 | Submit form | Notifies the seller that no equivalent data was found | Passed |
| Enters blank data in the search fields | Search: | Submit form | View all the list of buyers | Passed |

## **AC-SS05–View my posted recyclable materials**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-SS05 | | |
| **Users Story Acceptance Criteria Description:** | | Allows seller to search buyers | | |
| **Users:** | | Sellers | | |
| **Function/Features:** | | Search buyers | | |
| **Tested By:** | | Rona Beryl G. De Guzman | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| View my posted recyclable materials | N/A | There is a list of posted recyclable materials of the seller | View list of posted recyclable materials | Passed |
| View my posted recyclable materials | N/A | There is no data of posted recyclable materials of the seller | Notifies the seller that no current list of posted recyclable materials | Passed |

## **AC-SS06–Accept offered Bid**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-SS06 | | |
| **Users Story Acceptance Criteria Description:** | | Allows seller to accept offered bid | | |
| **Users:** | | Sellers | | |
| **Function/Features:** | | Accept offered Bid | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Accept offered Bid | N/A | Submit form | Update the transaction status and notifies the buyer | Passed |

## **AC-BS01– Offer Bid**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-BS01 | | |
| **Users Story Acceptance Criteria Description:** | | Allows buyer to offer bid | | |
| **Users:** | | Buyer | | |
| **Function/Features:** | | Offer Bid | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid data on the fields. | Bid: 7 | Submit form | Update the transaction status | Passed |
| Enters invalid data on the fields | Bid: -7 | Submit form | Refresh the form and notifies the user that invalid data is submitted | Passed |
| Enters blank data on the fields | Bid: | Submit form | Refresh the form and notifies the user that field is not filled | Passed |
| Cancel form/page | N/A | Submit form | Refresh the form/page | Passed |

## **AC-BS02– Cancel Offered Bid**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-BS02 | | |
| **Users Story Acceptance Criteria Description:** | | Allows buyer to Cancel Offered Bid | | |
| **Users:** | | Buyer | | |
| **Function/Features:** | | Cancel Offered Bid | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Cancel Offered Bid | N/A | Bidding time is not yet done | Delete the offered bid | Passed |
| Cancel Offered Bid | N/A | Bidding time is done | Notifies the buyer that cannot cancel his/her offered bid | Passed |

## **AC-BS03–Edit offered bid**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-BS03 | | |
| **Users Story Acceptance Criteria Description:** | | Allows buyer to Edit his/her offered bid | | |
| **Users:** | | Buyer | | |
| **Function/Features:** | | Edit offered bid | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid data on the fields. | Bid: 7 | Bidding time is not yet done | update the offered bid | Passed |
| Enters invalid data on the fields | Bid: -7 | Bidding time is not yet done | Refresh the form and notifies the user that invalid data is submitted | Passed |
| Enters blank data on the fields | Bid: | Bidding time is not yet done | Refresh the form and notifies the user that field is not filled | Passed |
| Enters valid data on the fields. | Bid: 7 | Bidding time is done | Notifies the buyer that cannot cancel his/her offered bid | Passed |
| Enters invalid data on the fields | Bid: -7 | Bidding time is done | Notifies the buyer that cannot cancel his/her offered bid | Passed |
| Enters blank data on the fields | Bid: | Bidding time is done | Notifies the buyer that cannot cancel his/her offered bid | Passed |
| Cancel form/page | N/A | Submit form | Refresh the form/page | Passed |

## **AC-BS04–Accept Direct Sell**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-BS04 | | |
| **Users Story Acceptance Criteria Description:** | | Allows buyer to Accept Direct Sell | | |
| **Users:** | | Buyer | | |
| **Function/Features:** | | Accept Direct Sell | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Accept Direct Sell | N/A | Submit form | Update transaction status and notifies the seller | Passed |

## **AC-BS05–Decline Direct Sell**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-BS05 | | |
| **Users Story Acceptance Criteria Description:** | | Allows buyer to Decline Direct Sell | | |
| **Users:** | | Buyer | | |
| **Function/Features:** | | Decline Direct Sell | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Decline Direct Sell | N/A | Submit form | Update transaction status and notifies the seller | Passed |

## **AC-BS06– Add recyclable materials**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-BS06 | | |
| **Users Story Acceptance Criteria Description:** | | Allows user to Add recyclable materials that they collect | | |
| **Users:** | | Buyers | | |
| **Function/Features:** | | Add recyclable materials | | |
| **Tested By:** | | Rona Beryl G. De Guzman | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid and complete data on all the fields. | Material: Metal  Units: Kilos  Minimum: 3 | Submit form | Update list of recyclable materials | Passed |
| Enters invalid and complete data on all the fields | Material: Metal  Units: Kilos  Minimum: -5 | Submit form | Refresh the form and notifies the user that invalid data is submitted | Passed |
| Enters valid and incomplete data on all the fields | Material:  Units: Kilos  Minimum: | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Enters invalid and incomplete data on all the fields | Material:  Units: Kilos  Minimum: -8 | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Cancel form/page | N/A | Submit form | Refresh the form/page | Passed |

## **AC-BS07– Edit recyclable materials**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-BS07 | | |
| **Users Story Acceptance Criteria Description:** | | Allows user to Edit recyclable materials that they collect | | |
| **Users:** | | Buyers | | |
| **Function/Features:** | | Edit recyclable materials | | |
| **Tested By:** | | Rona Beryl G. De Guzman | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid and complete data on all the fields. | Material: Metal  Units: Kilos  Minimum: 3 | Submit form | Update recyclable materials details | Passed |
| Enters invalid and complete data on all the fields | Material: Metal  Units: Kilos  Minimum: -5 | Submit form | Refresh the form and notifies the user that invalid data is submitted | Passed |
| Enters valid and incomplete data on all the fields | Material:  Units: Kilos  Minimum: | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Enters invalid and incomplete data on all the fields | Material:  Units: Kilos  Minimum: -8 | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Cancel form/page | N/A | Submit form | Refresh the form/page | Passed |

## **AC-BS08– Search posted recyclable materials**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-BS08 | | |
| **Users Story Acceptance Criteria Description:** | | Allows buyer to Search posted recyclable materials | | |
| **Users:** | | buyers | | |
| **Function/Features:** | | Search posted recyclable materials | | |
| **Tested By:** | | Rona Beryl G. De Guzman | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid data in the search field | Search: Metal | Submit form | View list of buyers that equivalent to the search data | Passed |
| Enters invalid data in the search fields | Search: [] | Submit form | Notifies the seller that no equivalent data was found | Passed |
| Enters blank data in the search fields | Search: | Submit form | View all the list of posted recyclable materials | Passed |

## **AC-BS09–View accepted recyclable materials**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-BS09 | | |
| **Users Story Acceptance Criteria Description:** | | Allows buyer to View his/her accepted recyclable materials | | |
| **Users:** | | Buyer | | |
| **Function/Features:** | | View accepted recyclable materials | | |
| **Tested By:** | | Rona Beryl G. De Guzman | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| View accepted recyclable materials | N/A | There is a list of accepted recyclable materialsof the buyer | View list of accepted recyclable materials | Passed |
| View accepted recyclable materials | N/A | There is no data of accepted recyclable materialsof the buyer | Notifies the buyer that no current list of accepted recyclable materials | Passed |

## **AC-BS10– Buy posted recyclable materials**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-BS10 | | |
| **Users Story Acceptance Criteria Description:** | | Allows buyer to Buy posted recyclable materials | | |
| **Users:** | | Buyer | | |
| **Function/Features:** | | Buy posted recyclable materials | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid data in the field | Quantity: 4 | Submit form | Update transaction details and notifies the seller | Passed |
| Enters invalid data in the fields | Quantity: -4 | Submit form | Refresh page and notifies the user that invalid input is submitted | Passed |
| Enters blank data in the fields | Quantity: | Submit form | Refresh page and notifies the user that blank field is required | Passed |

## **AC-AS01–Search Account of Sellers**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-AS01 | | |
| **Users Story Acceptance Criteria Description:** | | Allows admin to Search Account of Sellers | | |
| **Users:** | | Admin | | |
| **Function/Features:** | | Search Account of Sellers | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid data in the search field | Search: seller | Submit form | View list of buyers that equivalent to the search data | Passed |
| Enters invalid data in the search fields | Search: [] | Submit form | Notifies the seller that no equivalent data was found | Passed |
| Enters blank data in the search fields | Search: | Submit form | View all the list of account of seller | Passed |

## **AC-AS02– Search Account of Buyer**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-AS02 | | |
| **Users Story Acceptance Criteria Description:** | | Allows admin to Search Account of Buyer | | |
| **Users:** | | Admin | | |
| **Function/Features:** | | Search Account of Buyer | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid data in the search field | Search: buyer | Submit form | View list of buyers that equivalent to the search data | Passed |
| Enters invalid data in the search fields | Search: [] | Submit form | Notifies the seller that no equivalent data was found | Passed |
| Enters blank data in the search fields | Search: | Submit form | View all the list of account of buyer | Passed |

## **AC-AS03***–* **Deactivate Account**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-AS03 | | |
| **Users Story Acceptance Criteria Description:** | | Allows admin to Deactivate Account | | |
| **Users:** | | Admin | | |
| **Function/Features:** | | Deactivate Account | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Deactivate Account | N/A | Submit form | Update the account status of the user and notifies the user | Passed |

## **AC-AS04***–* **Activate Account**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-AS04 | | |
| **Users Story Acceptance Criteria Description:** | | Allows admin to activate Account | | |
| **Users:** | | Admin | | |
| **Function/Features:** | | Activate Account | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Activate Account | N/A | Submit form | Update the account status of the user and notifies the user | Passed |

## **AC-AS05–Add Ads**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-AS06 | | |
| **Users Story Acceptance Criteria Description:** | | Allows user to Add ads | | |
| **Users:** | | Admin | | |
| **Function/Features:** | | Add Ads | | |
| **Tested By:** | | Raymarc Neil J. Miranda | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid and complete data on all the fields. | Company: Sun  Ads Pic: 123.jpg  Description: sun is sun  URL: https:\\123Sun.com  Priority: Medium | Submit form | Add to the list of the ads | Passed |
| Enters invalid and complete data on all the fields | Company: Sun  Ads Pic: 123.html  Description: sun is sun  URL: https:\\123Sun.jdfgd  Priority: sdfdsg | Submit form | Refresh the form and notifies the user that invalid data is submitted | Passed |
| Enters valid and incomplete data on all the fields | Company:  Ads Pic:  Description:  URL:  Priority: Medium | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Enters invalid and incomplete data on all the fields | Company:  Ads Pic: 123.ffffff  Description:  URL: https:\\123Sun.dfhfhgh  Priority: Medium | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Cancel form/page | N/A | Submit form | Refresh the form/page | Passed |

## **AC-AS06–Edit Ads**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-AS07 | | |
| **Users Story Acceptance Criteria Description:** | | Allows user to Editads | | |
| **Users:** | | Admin | | |
| **Function/Features:** | | Edit Ads | | |
| **Tested By:** | | Rona Beryl G. De Guzman | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Enters valid and complete data on all the fields. | Company: Sun  Ads Pic: 123.jpg  Description: sun is sun  URL: https:\\123Sun.com  Priority: Medium | Submit form | Add to the list of the ads | Passed |
| Enters invalid and complete data on all the fields | Company: Sun  Ads Pic: 123.html  Description: sun is sun  URL: https:\\123Sun.jdfgd  Priority: sdfdsg | Submit form | Refresh the form and notifies the user that invalid data is submitted | Passed |
| Enters valid and incomplete data on all the fields | Company:  Ads Pic:  Description:  URL:  Priority: Medium | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Enters invalid and incomplete data on all the fields | Company:  Ads Pic: 123.ffffff  Description:  URL: https:\\123Sun.dfhfhgh  Priority: Medium | Submit form | Refresh the form and notifies the user that there are fields that are not filled and invalid data is/are submitted | Passed |
| Cancel form/page | N/A | Submit form | Refresh the form/page | Passed |

## **AC-AS07–Delete Ads**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Users Story Acceptance Criteria ID:** | | AC-AS08 | | |
| **Users Story Acceptance Criteria Description:** | | Allows user to Delete ads | | |
| **Users:** | | Admin | | |
| **Function/Features:** | | DeleteAds | | |
| **Tested By:** | | Rona Beryl G. De Guzman | | |
| **Test Sequence:** | | | | |
| **Given** | **Data** | **When** | **Then** | **Remarks** |
| Delete Ads | N/A | Submit form | Delete Ads to the list of the ads | Passed |