Appendices

Appendix A

Letter to the Adviser

February 27, 2021

**Shem Durst Elijah Sandig**

Professor

College of Information and Communications Technology

West Visayas State University

Luna St. La Paz, Iloilo City

5000 Philippines

Dear Sir,

The undersigned are BS Information Systems Research 1/Thesis 1 students of CICT, this university. Our

thesis/capstone project title is “Rice Sourcing, Distribution, and Transportation Management System”.

Knowing of your expertise in research and on the subject matter, we would like to request you to be our **ADVISER**.

We are positively hoping for your acceptance. Kindly check the corresponding box and affix your signature in the space provided. Thank you very much.

Respectfully yours,

Rouen I. Inawasan 

Jay Czhelle B. Soberano

Karlene Joyce Baes

Appendix B

Letter to the Grammarian

January 4, 2022

**DR. JOY PANTINO**

Faculty, College of Arts and Sciences

This University

Dear Dr. Pantino,

We are 4th year BSIT students of CICT in West Visayas State University - Main Campus. Our thesis project is entitled, “Rice Procurement and Management System”, under the supervision of Prof. Shem Durst Elijah Sandig. Knowing your expertise in research, we would like to request you to be our thesis grammarian.

We believe that your expertise in this field will significantly improve and help us for the manuscript format and editing of our thesis worthy to be an example or guide for the future BSIS students.

We are hoping for your positive response regarding this request.

Respectfully yours,

Baes, Karlene Joyce A. 

Inawasan, Rouen I. 

Soberano, Jay Czhelle B.

Appendix C

Data Dictionary

1. User Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Data Type | Field Size | Description | Example |
| userId | integer | 6 | Primary key of the user | 092735 |
| lastName | varchar | 50 | Last name of the user | Masipag |
| firstName | varchar | 50 | First name of the user | Adolfo |
| gender | varchar | 1 | Gender option of the user | M |
| dateOfBirth | date | 10 | User’s date of birth | 04/27/1999 |
| barangay | varchar | 50 | Barangay where the user lives | Duyanduyan |
| municipality | varchar | 50 | Municipality where the user lives | Santa Barbara |
| contactNum | integer | 11 | Contact number of the user | +639237465298 |
| userType | varchar | 10 | User type option of the user | Farmer |
| email | varchar | 50 | Email address of the user | adolfomasipag@gmail.com |
| householdMonthlyIncome | integer | 10 | Household monthly income of the user | 10,000 |

1. NFA Operations Personnel (Admin) Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Data Type | Field Size | Description | Example |
| userId | integer | 6 | Primary key of the NFA personnel (Admin) | 107646 |
| email | varchar | 50 | Email address of the NFA personnel (Admin) | nfa@example.com |
| password | varchar | 50 | Password of the NFA personnel (Admin) | 123456 |

1. Selling Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Data Type | Field Size | Description | Example |
| sellingId | integer | 6 | Primary key of the posted selling product | 985679 |
| harvestDate | date | 10 | Date when the palay was harvested | 02/3/2022 |
| numOfSacks | integer | 10 | Number of sacks for sale | 50 |
| kiloPerSack | integer | 10 | Weight of the palay per sack in kilograms | 40 |
| pricePerKilo | double | 10 | Price of the palay per kilograms | 20 |
| sellerId | integer | 6 | User id of the farmer who sold the palay | 092735 |

1. Palay Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Data Type | Field Size | Description | Example |
| palayId | integer | 6 | Primary key of the palay variety | 985679 |
| palayVariety | varchar | 50 | Name of the variety of palay | sinandomeng |

1. Transaction Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Data Type | Field Size | Description | Example |
| transId | integer | 6 | Primary key of the transaction | 985679 |
| transDate | date | 10 | Date when the palay was bought | 03/26/2022 |
| numOfSacks | integer | 10 | Number of sacks for sale | 50 |
| pricePerKilo | double | 10 | Price of the palay per kilograms | 20 |
| buyerId | integer | 6 | User id of the trader who bought the palay | 123465 |

1. Procurement Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Data Type | Field Size | Description | Example |
| procId | integer | 6 | Primary key of the procurement of palay | 985679 |
| procDate | date | 10 | Date when the palay was procured | 03/26/2022 |
| numOfSacks | integer | 10 | Number of sacks for sale | 40 |
| pricePerKilo | double | 10 | Price of the palay per kilograms | 19 |

1. Distribution Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Data Type | Field Size | Description | Example |
| distId | integer | 6 | Primary key of the distribution of rice | 985679 |
| distDate | date | 10 | Date when the rice was distributed | 03/26/2022 |
| numOfSacks | integer | 10 | Number of sacks distributed | 100 |
| recipientType | varchar | 50 | Type of recipient for the distribution | Relief operation |
| eventPurpose | varchar | 50 | Purpose of the distribution | Relief operation for the victims of typhoon Karding. |

1. Recipient Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Data Type | Field Size | Description | Example |
| recipientId | integer | 6 | Primary key of the recipient | 80750 |
| recipientNmae | varchar | 50 | Name of the recipient | Magdalena |
| recipientType | varchar | 50 | Type of recipient for the distribution | Relief operation |
| barangay | varchar | 50 | Barangay where the recipient is located | zone VI |
| municipality | varchar | 50 | Municipality where the recipient is located | Sta. Barbara |
| province | varchar | 50 | Province where the recipient is located | Iloilo |

Appendix D

Sample Program Codes

1. Login

Log in to your account

</h1>

<form className="mt-6" action="#" method="POST">

<div>

<label className="block text-gray-700">Email Address</label>

<input

type="email"

name="email"

value={email}

onChange={(event) => setEmail(event.target.value)}

placeholder="Enter Email Address"

className="w-full px-4 py-3 rounded-lg bg-gray-200 mt-2 border focus:border-blue-500 focus:bg-white focus:outline-none"

required

/>

</div>

<div className="mt-4">

<label className="block text-gray-700">Password</label>

<input

type="password"

name="password"

value={password}

onChange={(event) => setPassword(event.target.value)}

placeholder="Enter Password"

className="w-full px-4 py-3 rounded-lg bg-gray-200 mt-2 border focus:border-blue-500

focus: bg-white focus: outline-none"

required

/>

</div>

<div className="text-right mt-2">

<button className="text-sm text-primary hover:opacity-50">

Forgot Password?

</button>

</div>

<button

type="button"

onClick={onSubmit}

className="w-full block bg-primary hover:opacity-80 text-white font-semibold rounded-lg

px-4 py-3 mt-6"

>

Log In

</button>

</form>

<div className="my-6 border-gray-300 w-full" />

<p className="mt-8">

Need an account?{" "}

<Link

to="/register"

className="text-primary hover:opacity-50 font-semibold"

>

1. Dashboard

</div>

)}

{filterProcurement.length > 0 && (

{filteredNFA.length > 0 && (

<div className="lg:w-11/12 w-full bg-white rounded-lg">

<BarChart

dataArray={filterProcurement}

dataArray={filteredNFA}

width="40vw"

height="70vw"

axes={true}

1. Distribution

dataIndex: "quantity",

key: "quantity",

setDirections: sortTypes,

@@ -121,12 +121,19 @@ export default function Distribution() {

sorter: sortRiceVariety,

},

{

title: "Receiver",

title: "Recipient Name",

dataIndex: "receiver",

key: "receiver",

setDirections: sortTypes,

sorter: sortRiceVariety,

},

{

title: "Event Purpose",

dataIndex: "eventPurpose",

key: "eventPurpose",

setDirections: sortTypes,

sorter: sortRiceVariety,

},

{

title: "Action",

key: "action",

1. Inventory

{

title: "Email",

dataIndex: "userEmail",

key: "userEmail",

setDirections: sortTypes,

sorter: sortRiceVariety,

},

// {

// title: "Email",

// dataIndex: "userEmail",

// key: "userEmail",

// setDirections: sortTypes,

// sorter: sortRiceVariety,

// },

{

title: "Date Created",

dataIndex: "date\_created",

@@ -218,7 +218,7 @@ export default function Inventory() {

return (

<Tag color={color}>

<span>{milledAge} old</span>

<span>{milledAge} Months</span>

</Tag>

)

}

Appendix E

ISO 25010 Software Quality Evaluation Instrument

System Evaluation Sheet for *“Rice Procurement and Distribution Management System”*

Name of Evaluator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Organization & Position: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scale Description

6 Excellent

5 Very Good

4 Good

3 Fair

2 Poor

1 Very Poor

|  |  |  |  |
| --- | --- | --- | --- |
| Characteristic | Sub-characteristics | Description | Evaluation Rating |
| Functional Suitability | Functional completeness | Degree to which the set of functions covers all the specified tasks and user objectives. |  |
| Functional correctness | Degree to which a product or system provides the correct results with the needed degree of precision. |  |
| Functional appropriateness | Degree to which the functions facilitate the accomplishment of specified tasks and objectives. |  |
| Performance efficiency | Time behavior | Degree to which the response and processing times and throughput rates of a product or system, when performing its functions, meet requirements. |  |
| Resource utilization | Degree to which the amounts and types of resources used by a product or system, when performing its functions, meet requirements. |  |
| Capacity | Degree to which the maximum limits of a product or system parameter meet requirements. |  |
| Compatibility | Co-existence | Degree to which a product can perform its required functions efficiently while sharing a common environment and resources with other products, without detrimental impact on any other product. |  |
| Interoperability | Degree to which two or more systems, products or components can exchange information and use the information that has been exchanged. |  |
| Usability | Appropriateness recognizability | Degree to which users can recognize whether a product or system is appropriate for their needs. |  |
| Learnability | Degree to which a product or system can be used by specified users to achieve specified goals of learning to use the product or system with effectiveness, efficiency, freedom from risk and satisfaction in a specified context of use. |  |
| Operability | Degree to which a product or system has attributes that make it easy to operate and control. |  |
| User error protection | Degree to which a system protects users against making errors. |  |
| User interface aesthetics | Degree to which a user interface enables pleasing and satisfying interaction for the user. |  |
| Accessibility | Degree to which a product or system can be used by people with the widest range of characteristics and capabilities to achieve a specified goal in a specified context of use. |  |
| Reliability | Maturity | Degree to which a system, product or component meets needs for reliability under normal operation. |  |
| Availability | Degree to which a system, product or component is operational and accessible when required for use. |  |
| Fault tolerance | Degree to which a system, product or component operates as intended despite the presence of hardware or software faults. |  |
| Recoverability | Degree to which, in the event of an interruption or a failure, a product or system can recover the data directly affected and re-establish the desired state of the system. |  |
| Security | Confidentiality | Degree to which a product or system ensures that data are accessible only to those authorized to have access. |  |
| Integrity | Degree to which a system, product or component prevents unauthorized access to, or modification of, computer programs or data. |  |
| Non-repudiation | Degree to which actions or events can be proven to have taken place so that the events or actions cannot be repudiated later. |  |
| Accountability | Degree to which the actions of an entity can be traced uniquely to the entity. |  |
| Authenticity | Degree to which the identity of a subject or resource can be proved to be the one claimed. |  |
| Maintainability | Modularity | Degree to which a system or computer program is composed of discrete components such that a change to one component has minimal impact on other components. |  |
| Reusability | Degree to which an asset can be used in more than one system, or in building other assets. |  |
| Analyzability | Degree of effectiveness and efficiency with which it is possible to assess the impact on a product or system of an intended change to one or more of its parts, or to diagnose a product for deficiencies or causes of failures, or to identify parts to be modified. |  |
| Modifiability | Degree to which a product or system can be effectively and efficiently modified without introducing defects or degrading existing product quality. |  |
| Testability | Degree of effectiveness and efficiency with which test criteria can be established for a system, product or component and tests can be performed to determine whether those criteria have been met. |  |
| Portability | Adaptability | Degree to which a product or system can effectively and efficiently be adapted for different or evolving hardware, software or other operational or usage environments. |  |
| Installability | Degree of effectiveness and efficiency with which a product or system can be successfully installed and/or uninstalled in a specified environment. |  |
| Replaceability | Degree to which a product can replace another specified software product for the same purpose in the same environment. |  |

Appendix F

Disclaimer

This software project and its corresponding Documentation entitled “Rice Procurement and Distribution Management System” is submitted to the College of Information and Communications Technology, West Visayas State University, in partial fulfillment of the requirements for the degree, Bachelor of Science in Information Systems. It is the product of our own work, except where indicated text.

We hereby grant the College of Information and Communications Technology permission to freely use, publish in local or international journal/conferences, reproduce, or distribute publicly the paper and electronic copies of this software project and its corresponding documentation in whole or in part, provided that we are acknowledged.

KARLENE JOYCE A. BAES ROUEN I. INAWASAN

JAY CZHELLE B. SOBERANO

August 2022