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

A. 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

B. 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

C. 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

D. 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

E. 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

F. 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

G. 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.

H. 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

A. 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"
                  >
B. 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}
C. 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",
```

D. 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.

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KARLENE JOYCE A. BAES ROUEN I. INAWASAN

JAY CZHELLE B. SOBERANO

August 2022