CARAGA STATE UNIVERSITY
COLLEGE OF COMPUTING AND INFORMATION SCIENCES
CSU-Main Campus, Ampayon, Butuan City, Philippines
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ITE 16 - INFORMATION MANAGEMENT
PROJECT DOCUMENT

CCIS Property Item Inventory System

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SECTION: BCJKRS1

Name of Business / Organization to be your recipient:

I. BUSINESS / ORGANIZATION BACKGROUND

- The **CCIS Property Item Inventory System** at Caraga State University is designed to effectively manage and oversee property items within the College of Computing and Information System. It carefully records important details for each item, like its condition, purchase history, and disposal records. Detailed logs keep track of all activities such as maintenance and disposals, ensuring accountability and giving a clear view of each item's status.

- This system focuses on accuracy and organization in handling propertyitems. It acts as a key tool for monitoring each item's journey, from when it's acquired to when it's disposed of, which helps in making informed decisions and allocating resources efficiently. This structured approach boosts efficiency in the College of Computing and Information System and highlights the university's commitment to effective asset management and accountability throughout the property item management process.

A. Challenge

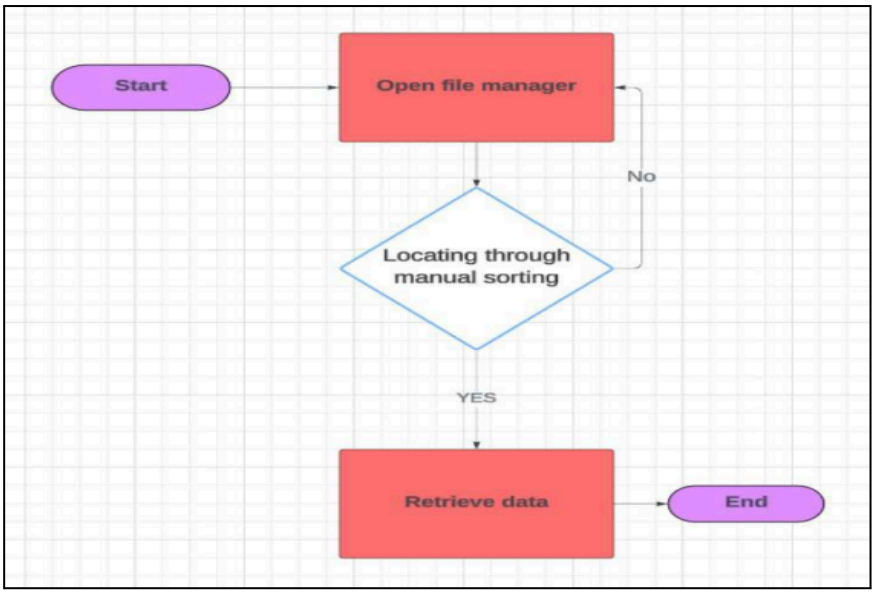
- Before implementing the database system, managing the CCIS Property Item Inventory at Caraga State University posed significant challenges due to the reliance on manual methods for data retrieval. This manual process resulted in inefficiencies and delays in accessing essential information about item conditions, acquisition details, and disposal records. It hindered the ability to quickly retrieve specific data needed for decision-making and resource allocation within the College of Computing and Information System.

B. Solution

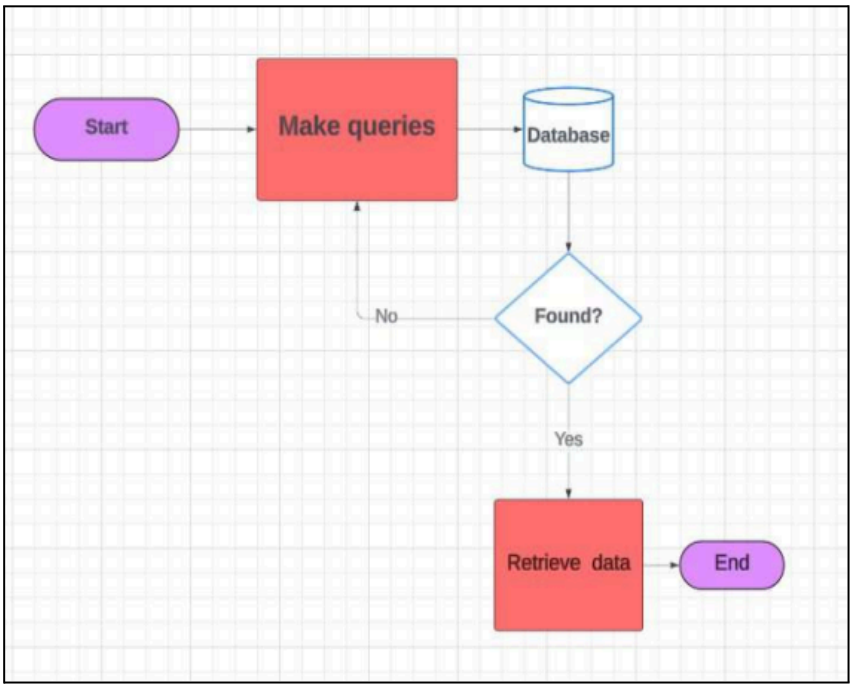
- The introduction of a database system provided a robust solution to these challenges. By centralizing and organizing all inventory data, the database now allows for efficient querying and retrieval of information. Users can easily access comprehensive records, track item lifecycles accurately, and generate reports promptly. This transition has significantly enhanced operational efficiency, enabling administrators to make informed decisions swiftly and effectively manage assets throughout their lifecycle.

II. PROCESSES

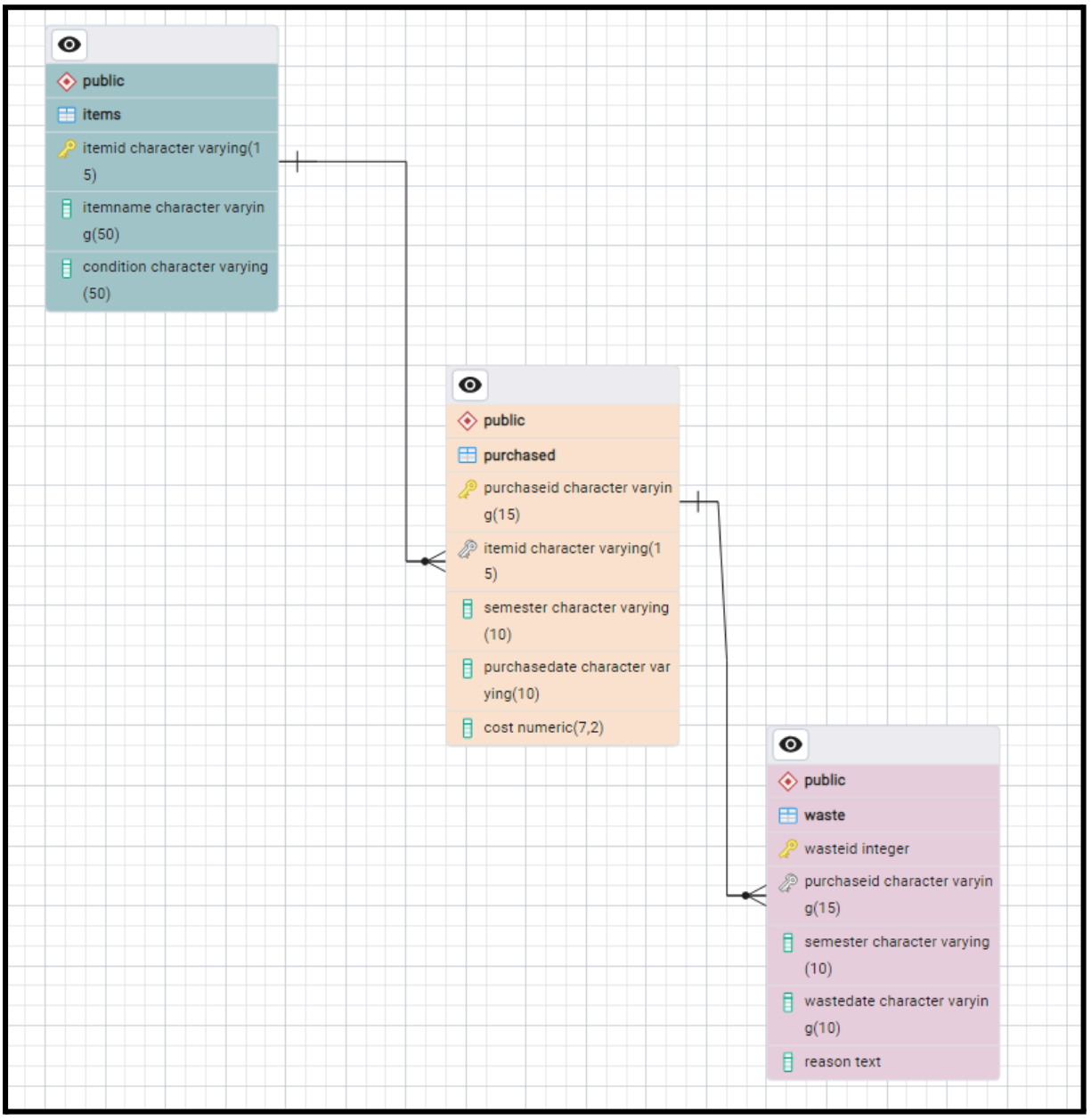
A. Current Flowchart



B. Proposed Flowchart



III. DATABASE DESIGN



IV. RETRIEVAL OF RECORDS

A. Count how many items are in each condition status.

```
SELECT condition, count(items) as total_number_of_items
from items
group by condition;
```

	condition character varying (50)	total_number_of_items bigint
1	refurbished	42
2	need upgrade	26
3	working	93
4	for disposal	27
5	under repair/maintenance	20
6	disposed	24

B. Retrieve Items with the Highest Purchase Cost

```
SELECT *
FROM Items
WHERE Condition = 'working';
```

	itemid [PK] character varying (15)	itemname character varying (50)	condition character varying (50)
1	CCIS-22-02	Cabinet (Steel filing)	working
2	CCIS-22-04	Laptop (mid-range users)	working
3	CCIS-22-05	Laptop (mid-range users)	working
4	CCIS-22-07	Laptop (mid-range users)	working
5	CCIS-22-09	Laptop (mid-range users)	working
6	CCIS-22-11	Laptop (mid-range users)	working
7	CCIS-22-14	Laptop (mid-range users)	working
8	CCIS-22-17	Laptop (mid-range users)	working
9	CCIS-22-19	Laptop (mid-range users)	working
10	CCIS-22-21	Laptop (mid-range users)	working
11	CCIS-22-24	Laptop (mid-range users)	working
12	CCIS-22-26	Laptop (mid-range users)	working
13	CCIS-22-28	Projector (epson)	working
14	CCIS-22-31	Laptop (mid-range users)	working
15	CCIS-22-33	Laptop (mid-range users)	working

C. Retrieve Total Cost for Each Item Type Purchased.

```
Query  Query History
1  SELECT ItemName, SUM(Cost) AS TotalCost
2  FROM Purchased
3  JOIN Items ON Purchased.ItemID = Items.ItemID
4  GROUP BY ItemName;
5
```

Data Output | Messages | Notifications

	itemname character varying (50)	totalcost numeric
1	Camera (LENS)	21980.00
2	Laptop (mid-range users)	1576842.50
3	Printer (inkjet)	230900.00
4	Wireless Access Point	71970.00
5	Cabinet (wooden)	5820.00
6	Shelves (wooden)	5900.00
7	Table (computer table)	206345.00
8	Desktop (aspire)	1157000.00
9	Office Chair (ergonomic)	149750.00
10	Camera (Canon EOS 200D)	30000.00
11	Printer (laser)	232200.00
12	Projector (4K)	765250.00
13	Cabinet (Steel filing)	13800.00
14	Sofa (L-shape)	23600.00

D. Retrieve Total Cost of All Purchased Items.

```
1  SELECT SUM(Cost) AS TotalCost
2  FROM Purchased;
3
```

Data Output | Messages | Notifications

	totalcost numeric
1	7397627.50

E. Retrieve All Items with 'need upgrade' Condition

Query | Query History

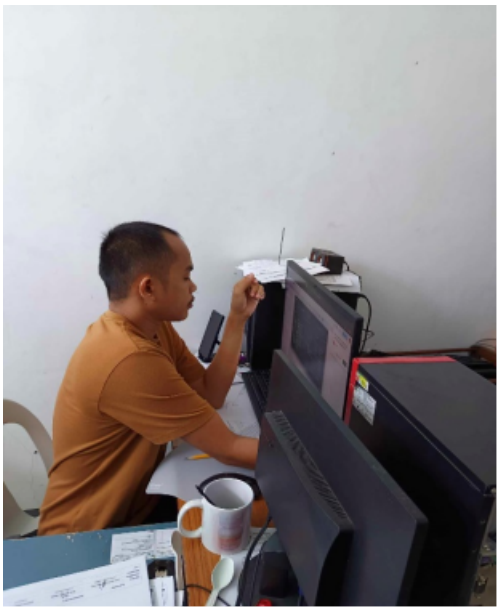
```
1  SELECT *
2  FROM Items
3  WHERE Condition = 'need upgrade';
```

Data Output | Messages | Notifications

	itemid [PK] character varying (15)	itemname character varying (50)	condition character varying (50)
1	CCIS-22-08	Laptop (mid-range users)	need upgrade
2	CCIS-22-12	Laptop (mid-range users)	need upgrade
3	CCIS-22-20	Laptop (mid-range users)	need upgrade
4	CCIS-22-32	Laptop (mid-range users)	need upgrade
5	CCIS-22-40	Laptop (mid-range users)	need upgrade
6	CCIS-22-48	Table (computer table)	need upgrade
7	CCIS-22-57	Table (computer table)	need upgrade
8	CCIS-22-63	Table (computer table)	need upgrade
9	CCIS-22-74	Desktop (aspire)	need upgrade
10	CCIS-22-84	Desktop (aspire)	need upgrade
11	CCIS-22-101	Printer (HP Smart tank 615)	need upgrade
12	CCIS-22-107	Network switch	need upgrade
13	CCIS-23-08	Projector (4K)	need upgrade
14	CCIS-23-12	Monitor (24-inch)	need upgrade
15	CCIS-23-20	Monitor (32-inch)	need upgrade
16	CCIS-23-34	Projector (4K)	need upgrade

V. EVIDENCES & DOCUMENTATIONS

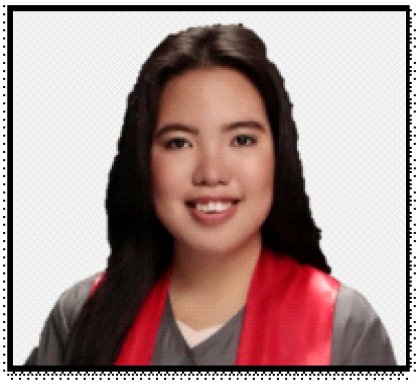
We began our process by establishing a group chat to thoroughly discuss our task and strategize our approach. Following our discussions, we meticulously prepared a permission letter to formally request an interview with Mr. Jestoni. However, on the day of our scheduled meeting, Mr. Jestoni was unavailable due to travel and referred us to one of his colleagues.



Upon meeting with the referred staff member, we were informed that some of the essential data we needed was housed in a different building. In response, we promptly traveled to the other building to retrieve the missing information. After successfully collecting all the necessary data, we returned home to allocate and work on our individual tasks.

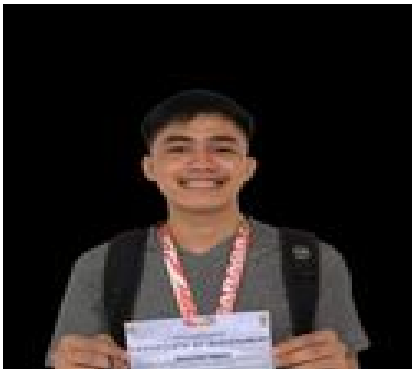
Once each member had completed their assigned tasks, we reconvened to review, integrate, and finalize our project.

VI. TEAM COMPOSITIONS



Am Arryl Share I. Abellana

Member



Ronymar A. Tejano

Leader

Rey Niel R. Felisilda

Member