

**WEB-BASED PUBLIC MARKET BUILDING DIRECTORY AND WAY FINDING
KIOSK WITH VENDOR MANAGEMENT SYSTEM**

**A Capstone Project Proposal
Presented to the Faculty of the
Information and Communications Technology Program
STI College Information Technology**

**In Partial Fulfilment
of the Requirements for the Degree
Bachelor of Science in Briar Rose C. Chua**

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ENDORSEMENT FORM FOR PROPOSAL DEFENSE

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AND WAY FINDING KIOSK WITH VENDOR MANAGEMENT SYSTEM**

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This capstone project proposal titled: **WEB-BASED PUBLIC MARKET BUILDING DIRECTORY AND WAY FINDING KIOSK WITH VENDOR MANAGEMENT** prepared and submitted by **Briar Rose C. Chua, Meil Sheida J. Panaguiton, Reyan Jan B. Samontanes**, and **Prince Jay Mohammad Omar A. Sayre**, in partial fulfillment of the requirements for the degree of Bachelor of Science in Information Technology, has been examined and is recommended for acceptance and approval.

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INTRODUCTION

Project Context

The fast evolution of technology has brought about significant changes in various aspects of society, including commerce and business management. In the field of retail, the efficient management of local marketplaces is essential for ensuring smooth operations and enhancing the overall shopping experience. However, traditional marketplace management often faces challenges such as inefficient space allocation, and limited visibility into store operations.

According to Public Market Development (2017), Public Markets exist to fulfill a public purpose, showcase a community's unique character and culture while serving its everyday shopping needs. They typically focus on the sale of a full array of fresh, healthful, value added, and prepared foods – often locally grown or produced. They are sometimes rounded out by crafts and/or a variety of needed neighborhood businesses. They focus on businesses that are locally owned and operated which highlight the best of local foods, crafts, music, heritage and culture.

The stallholders or Vendors only rent for the space they are occupying for a period of time indicated in the lease contract they signed. Rentals vary from size and location of the stalls. Income received from the rentals are used for the maintenance and improvements of the market and the annual amortization of the loan to Municipal Development Fund Office (MDFO) who financed the public market's construction. The designated public market administrator oversees the daily status of vendors in the market. All vendors are bound by the rules and regulations set by the Municipality. The municipal government is proposing the transfer of some of the maintenance operations of the public market to the Guinayangan Public Market Vendors Association which includes among others the operation and maintenance of the comfort rooms. Sections of the markets are the fish, meat, dried fish, dry goods, fruits and vegetables, and grocery section (Local Government Unit Site, n.d.-b).

This study revolves around addressing these challenges through the development and implementation of a 2D Store Mapping System tailored for local marketplace particularly on Polomolok's Public Market with 10 Buildings which are Building A, Building B, Building C, Building D, Building E (Bakery Section), Building F (Meat Section), Building G (Seafood and Dry Fish Section), Building H (Fruits Section), Building I (Vegetables Section), Building J (Thrift Store Section) which has 1,039 stalls. Based on the survey conducted within the local marketplace, it is evident that there is a pressing need for a solution.

This study can have a significant impact on how effective marketplace management can benefit both business owners and customers. This will also enable customers to easily find stores and preferred stores.

Purpose and Description

In the modern era, traditional marketplaces are required to keep up with the changing times and incorporate technology to streamline their operations. This capstone project aims to create a cutting-edge 2D Store Mapping System, designed to modernize marketplace management by providing valuable insights on occupancy status and simple transaction monitoring. The system will be a turning point for marketplace business operations, offering a more efficient and effective way to manage the daily activities of their businesses. By utilizing this system, marketplace administrators will be able to monitor all the transactions and also the occupancy status if it is occupied by vendors or not, ensuring compliance with capacity limits and providing a safer environment for shoppers. Additionally, the system will enable displaying a 2D Store Map for each section of buildings.

The Implementation of Web-Based Public Market Building Directory and Way Finding Kiosk with Vendor Management System that allows Municipal Economic Enterprise and Development Office (MEEDO) to manage daily status and transactions, and 2D store map. The use of 2D map function will enable the customers to easily track the location of every store in the Public Market as well as the Vendors can view the location of their

Store.

In Store Market Management, Vendors can manage their own store and also for Municipal Economic Enterprise and Development Office (MEEDO) to see the current situation of space allocation of each section of building and lastly, it will display the map of Public Market to give visualization of the stores, total number of stores, view their payment transaction history, and show the availability of store. The Municipal Economic Enterprise and Development Office (MEEDO) will collect some basic information and requirements of vendors such as name, contact number, address, age, business permits, contract of lease, DTI, BIR, and healthcare. The system also allows the staff to manage monthly rental payments, specifically the vendor's payment status like paid, unpaid and balances for Municipal Economic Enterprise and Development Office (MEEDO) to view it. The system will also offer customers an enhanced shopping experience which allows them to access the map through way finding kiosk. With product offerings and location information, customers can easily navigate the marketplace and find what they're looking for. This will not only save time for customers but also increase their satisfaction.

Objectives

The objective of this study is to design, implement, integrate and develop a system: The Implementation of WEB-BASED PUBLIC MARKET BUILDING DIRECTORY AND WAY FINDING KIOSK WITH VENDOR MANAGEMENT SYSTEM

Specific objectives of this study are as follows:

- To integrate 2D Store Map functionality to provide insights into the store for customers.

This objective will allow customers to easily locate the stores in Public Market, specifically their preferred or recently visited store. This system will also help customers to determine the status of their preferred.

- To develop a system where the Vendors and Municipal Economic Enterprise and Development Office (MEEDO) Head to view and monitor monthly payments.

This objective will help the Municipal Economic Enterprise and Development Office (MEEDO) Head to determine whose and which stores are paid, unpaid, and overdue during that month and will be listed and filtered out in the system. The vendors shall be able to receive a bill or statement of account that will show to their profile module and receive a message that will remind them of the monthly due through web portal and SMS Notification.

- To develop a system that can display digital cash payments receipts for vendors

This objective will allow vendors to view their payment receipt through portal for their monthly rent. This will also allow them to view their bill and balances as well as tracking their payment transactions.

- To develop a system where the Vendors can manage their profiles.

This objective will allow vendors to submit their requirements such as vendor's form and view market policies, contracts, and the monthly payment as well as the payment history and outstanding balances.

- To develop a system where the Municipal Economic Enterprise and Development Office (MEEDO) manages all the reports based on transactions.

This objective will allow the Municipal Economic Enterprise and Development Office (MEEDO) Head to manage all the transactions such as building management, stall management, vendor management, rent management, and the functionality of 2D Map.

- To integrate functionality for Staff and Municipal Economic Enterprise and Development Office (MEEDO) to manage and track down the monthly due of

vendors.

This objective will allow Staff and Municipal Economic Enterprise and Development Office (MEEDO) to navigate the stores using functionality. Through mapping they can easily track down the stores who have been paid or unpaid during that month. Staff shall send a note or reminder to the vendors through application and SMS Notification.

- To determine the availability of space within the local marketplace using 2D map.
This objective will help the Vendors and Municipal Economic Enterprise and Development Office (MEEDO) Head to easily locate the stores. The system will also help them to track who rents the space and view the available stall aisle which is listed, categorized, and filtered out.

Scope and Limitations

Scope of the study are the follows:

Development and implementation of PUBLIC MARKET
BUILDING DIRECTORY AND VENDOR MANAGEMENT
SYSTEM

Target Users:

- Marketplace administrators
 - Municipal Economic Enterprise and Development Office (MEEDO) Head is Responsible for overall management of the system.
 - User Management Module: Allows updating and deleting user information.
 - Rent Application Management Module: Manages and Vendor information, business permits, lease

agreements, and store maintenance.

- Building Management - Managing usage, maintenance, utilities, and operation of building by having maintenance and repairs and managing space.
 - Stall Management - determine the owners, facilitate allocation and relocation of stalls to vendors, monitor the monthly rental fees, and provide operational issues such as maintenance and repair.
 - Mapping Functionality: Provides insights into store availability, occupancy status, and puts prices for stalls/spaces. Monthly Payment Monitoring Module: Tracks monthly payments from vendors.
 - Communication Module: Sends reminders and notifications to vendors.
- Staff – In the system, they are responsible for a module acknowledge payments and issuing receipts of vendors.
 - Vendor Payment Processing and Tracking Module: Acknowledge payments, issues receipts, and monitors monthly payments from vendors.
 - Record and Document Financial Transactions: Entering and keep document transactions such as viewing vendors lease of agreements, business permits, invoices, and receipts.
 - Communication Module: Sends reminders and notifications to vendors for payments.
 - Store Vendors – Manage daily status of their business,

providing customer service and products, monitoring their monthly payments.

- Rent Application Management Module: View their information and documents such as contracts, business permits, and lease agreements.
 - Allocation and Relocation Management Module - Allow vendors to add new store and update their address details as well as to request a relocation to change their stall.
 - Payment Module: View and tracks their monthly payments, balances, view bills, and payment history.
 - Communication: Receives reminders and notifications regarding monthly dues and payments.
- Customers – Customer can benefit from the system by having a convenient 2D store mapping.
 - Mapping Functionality: Allows them to view the different store or stall in Public Market
 - Feedback and Survey Module: Provides spaces for customer feedback and insights for the market.

Limitations of the study:

There is the certain limitation that is needed to be considered and these are the following:

- The study is limited to the implementation of web-based public market building directory and way-finding kiosk with vendor management system in Polomolok Public Market only.
- The survey we gathered is intended only to the bonafide residence of Polomolok, South Cotabato. We only gather in Vendors, Polomolokians, and in association of MEEDO.
- This study and the system cannot cater overall operations of the municipality of Polomolok.
- The system is designed to cater the needs of the Municipal Economic Enterprise and Development Office (MEEDO) Head, Staff, Vendors, and Customers of the Polomolok Public Market whereas the functionality and features of the system may not be suitable for other users.

REVIEW OF RELATED LITERATURE/SYSTEMS

Related Literature

Online devices in modern era of Marketing (2018)

Marketing has evolved during the past years. From traditional marketing and then transformed into a dynamic one. Today, the internet and the web technologies are used as tools to facilitate marketing activities by business organizations. Nowadays, many business establishments have been using the internet and other electronic media in their market to grow in a very dynamic way. With its sophisticated and dynamic features, the internet could deliver the fastest and the most efficient ways of doing business nearby effortlessly gaining new customers and product exposure.

Consumer Motivations to Use In- store Mapping Application (2024)

Understanding the customer-environment relationship is essential to the formulation of important marketing decisions such as store layout, design, and merchandising. Studies in environmental psychology highlight consumer orientation as a significant factor that impacts buyer behavior at the point of sale (Donovan & Rossiter, 1982; Eroglu & Harrell, 1986). The existence of physical maps in store environments (e.g., displaying the location of service points, products, escalators) influences customer sentiments concerning shopping convenience (Groepel-Klein & Bartmann, 2008). These studies also suggest that consumers store mental maps of retail stores. These help consumers internally represent large -scale environments cognitively (Gulliver, 1908; Trowbridge, 1913;

MacKay & Olshavsky, 1975). Consumers use their mental maps to determine the value of traveling a distance to obtain certain products or to create efficiencies in shopping (by combining purchases in one-stop shopping or choosing one location over another for more product variety in a single trip, for example). When consumers have better mental

maps, their ease of orientation can be improved (Groeppe-Klein, Bartmann, 2008).

Rental Management System Market (2024)

The Rental Management System market is experiencing robust growth driven by a combination of factors. Technological advancements are continuously improving Rental Management System products, enhancing their efficiency and versatility across various industries. Increasing consumer awareness of the benefits of Rental Management System, along with a growing emphasis on sustainability, is further fueling market expansion. Sectors such as construction, automotive, and electronics are particularly witnessing significant demand for Rental Management System solutions. Moreover, government initiatives promoting environmentally friendly alternatives are contributing to the market's upward trajectory. Ongoing investments in research and development are expected to drive further innovation and improvement in Rental Management System products, catering to evolving consumer needs and regulatory requirements.

Market Mapping

Market mapping is the process of visually organizing information about various competitors in a specific industry to understand their positions and identify potential market trends. It's a simple yet powerful technique that helps businesses uncover strategic insights based on the relative standing of their rivals in the market. Also is a strategic analysis tool that involves gathering data on competitors, such as revenue, growth rate, and industry sectors, and subsequently representing this information visually on a graph or chart to discern market trends and derive insights into competitors' relative positioning and potential strategic directions. One of the advantages of perceptual mapping is to provide a visual representation of information.

Customer Retention

According to Zaman et al. (2012), he examined the effect of customer trust on customer retention in a company engaged in cellular service. Their results showed that customer trust affects customer retention.

As stated by Adiati and Dinna (2014) they conducted research in the internet service provider industry and found a positive effect of switching barriers on customer retention. Furthermore, Shamini and Ragel (2018) examined the telecommunications industry and reported a positive effect of switching barriers on customer retention. Ashraf et al. (2018) conducted a case study on five lines of business engaged in services, hotels, hospitals, education, and banks in Pakistan, reporting a significant effect of service quality on customer satisfaction.

According to (Gurviez & Korchia, 2003), customer satisfaction is achieved when a customer receives a product or service that matches his/her expectations, making it more likely that he/she will return to make other purchases. Repeat purchases are an indicator that customers believe in the company (customer trust) because they are satisfied with the product or service they have received. In the long term, customers will recommend the products or services to their closest relatives and will not switch to other companies. Nguyen (2019) said on his article that as customer-perceived value has a positive and significant effect on customer satisfaction, insurance service companies must focus on improving service quality and company image to achieve customer satisfaction, which would in turn yield customer loyalty.

Comprehensive Clinic Management System

The main problem of some clinics is that they have a manual way of recording, tracking, and managing patient requests which sometimes lead to slower transactions within the clinics. This aimed to design and developed a clinic management solution that will serve as a proposal to help the staff to save time and resources with the automation of its daily clinic operations (Sta. Maria, 2015). According to Lahar Mishra (2019) Organizations find it difficult to manage information, before computer technology bloomed. Developments in computer technology have made it possible for the managers to easily gather, integrate, store, and manage the information in the form they require depending

upon their needs and timing. Information is used simultaneously by many people. The information needs to be current, accurate, concise, timely, complete, well presented, and storable. Recording data consumes space, time, paper and other problems to find or store the patient's information; One of the most vital institutions that need a computerized recording using systems. Stated is the use of 2 separate systems, user and admin and feature of recording details, information of staff and can provide a print of the master list (Alberto 2015).

Rent-Seeking by Rent Concession

Rent-free periods (RFPs) have been used in property markets worldwide especially during economic downturns as a discount pricing strategy in marketing. However, this research study proposes that RFPs play a role in increasing or, at least, sustaining face rent that can be reflected in the property price. This study focuses on the Korean office market which has experienced growing vacancy rates since the global financial crisis possibly leading to a decrease in effective rent with greater RFP incentives. In this period, face rent has increased as offering extended RFPs. Hence, high vacant rates with high face rent have been observed, which is seemingly contradictory against the commonly known rent-vacancy negative relationship. This research analyses the rent, transaction prices and RFPs during 2003 – 2017 in the Seoul office market. The findings reveal that positive future anticipations of owners and investors are reflected in extended RFPs to sustain and increase face rent that will eventually lead to higher property transaction prices. The role of RFPs is not effective in attracting tenants as a marketing tool. Instead, professionals, including investors/buyers, owners/sellers and real estate agencies, have been doing rent-seeking by offering rent recessions in the Seoul office market.

The Benefits of having 2D Map

The key component to the 2D map is data collection. By having a drone take hundreds to thousands of pictures, not only will you receive a one imaged map but also many individual high definition aerial pictures. These maps and pictures can help you and your team make rapid decisions by giving you a real world view. Data collection is very

important in industries such as construction, infrastructure, aggregates, insurance, and environmentalism. For companies and organizations with large campuses such as schools, amusement park, boat and auto dealerships. A 2D map is the best way to show off that entire campus and property in frame.

In addition that 2D map can be used as a traditional map with building labels and a legend. This can prove to help new visitors in navigating a large campus by using high definition photorealistic pictures instead of a satellite image or animation.

Vendor Management

vendor management is the process of managing relationships with external vendors who supply goods and services to an organization. It involves selecting the right vendors, negotiating contracts, monitoring performance, and ensuring compliance with regulations. By implementing best practices and utilizing the right tools, organizations can improve their vendor management process and reap the benefits of improved performance, reduced costs, and increased efficiency. With the growing importance of vendor management in today's business environment, it is essential for organizations to focus on developing their vendor management skills and adopting a comprehensive vendor management model to ensure success. By doing so, they can effectively manage their vendors, improve their relationships, and achieve their business objectives.

Potential Benefits Of Public Market Management Systems For Market Vendors

Public market management systems have the potential to benefit market vendors, consumers, and the public sector in several ways. These systems can contribute to the development of sustainable cities and strong communities by increasing the sense of pride of place and raising awareness about the benefits of buying local products, thereby increasing environmental responsibility among stakeholders . They can also help in the planning and management of public services focused on the genuine needs of citizens, leading to more effective, efficient, and transparent use of public resources . Additionally, public market functions in centrally located areas can serve social functions such as guaranteeing food security, supporting urban development goals, reducing

automobile dependence, and supporting disenfranchised populations . These benefits highlight the potential of public market management systems to contribute to sustainable urban planning, employment, and community development.

Facilities Management

Facilities comprise of property, buildings, utility equipment, interior fit-outs office furniture, communication devices and ...show more content... Maintenance, janitorial, and other vendors especially specialty suppliers Service Provider (Rondeau, Brown, & Lapides, 2006) Hence, architects, engineers, interior designer, quantity surveyors/valuers/estimators, planners, furniture installers property/maintenance/asset manager are among the frequent service provider chosen, in which depends on the nature of business organizations itself.

Thus, the involvement of professionals from various disciplines and background highlight the fact that FM necessitates multiple skills, hence Tay & Ooi, 2001 underline Payne (2000) findings on four areas where these professionals regularly involved in facilities management. These include property and built environment required the professional skills of architects, legal services, space planners and quantity surveyors, the technical expertise of maintenance staff, and the processes that take place within the buildings such as catering, cleaning, security, mail room, reprographics has required input and practical operational management from a range of specialist professional.

Benefits of Directory Management

The article from ARK Marketing highlights the importance of directory management for businesses. According to the article, directory management involves managing online listings that include a business's name, address, phone number, and other information such as its website. The article emphasizes that if a business doesn't actively manage its online listings, other businesses may be beating it to the punch, infringing on business that should be theirs.

The article also mentions that directory management can have four key benefits for businesses. Firstly, being the first to create a profile on various directories can prevent others from creating it for them. Secondly, directory management can help improve a business's online visibility, making it easier for customers to find them. Thirdly, it can help to reduce errors and inconsistencies in online listings, which can negatively impact a business's reputation. Finally, directory management can help businesses to stay ahead of their competitors by ensuring that their online presence is accurate and up-to-date. The article makes a strong case for the importance of directory management for businesses. By managing their online listings, businesses can improve their online visibility, reduce errors, and stay ahead of their competitors.

Navigating the Market Maze with Market Mapping

Market mapping is a strategic tool that helps businesses navigate the complexities of their market by visually representing the landscape of their market. It involves categorizing competitors, products, or services based on various criteria such as price, quality, features, or target demographics. This allows companies to gain a clearer understanding of their competitive positioning and identify opportunities for differentiation or expansion.

There are several types of market mapping techniques, including perceptual mapping, competitive mapping, segmentation mapping, product positioning mapping, channel mapping, and market opportunity mapping. Each of these techniques provides valuable insights into different aspects of the market, enabling businesses to make informed decisions about product development, pricing strategies, and marketing efforts.

For instance, perceptual mapping helps identify how consumers perceive different brands in relation to each other based on attributes such as price, quality, or convenience. Competitive mapping, however, assesses the positions of competitors within a market, including their market share, product offerings, pricing strategies, and other relevant factors. By using market mapping, businesses can identify opportunities to differentiate their offerings, create a unique value proposition, and stay ahead of the competition. It is essential to regularly update the market map to reflect changes in the market, such as new entrants, mergers and acquisitions, or shifts in competitive positioning. Market

mapping is a powerful tool that can help businesses gain a competitive edge in their market. By understanding the different types of market mapping techniques and how to apply them, businesses can make informed decisions and drive growth.

Related Studies and/or Systems

Market Systems and Monitoring Activity

(Goentzel, et al., 2016). Introduced system maps that depict the market system for maize, beans, and coffee in Uganda. The maps were developed in order to provide a common understanding of the system that is the focus of the FTF-VC project in Uganda. They are intended to be "living" documents, which are updated regularly and may be used and modified by any organization for its own purposes. Major updates of the maps will be formally released once per year for the duration of the MSM activity. Versions with minor changes may be released as needed in the interim, in the style of software releases. The maps were developed by the MSM activity, with input from many FTF-VC stakeholders. Two types of maps are included in this release: a supply chain role map and a behaviors-relationships-conditions map. The supply chain role map provides an overview of main roles in the system and the most important flows among them (materials, finance, services). The behaviors-relationships-conditions map provides a picture of the potential pathways for change in the system by depicting behavior changes, relationship changes, and system conditions, connected by arrows indicating elements that enable others. It is relevant to the Mapping System of Polomolok Public Market. Wherein, the developers implement and integrate mapping functionality for make it easy to navigate the store.

Local Foodshed Mapping (2015).

The geographical area that provides food for a certain population is known as a foodshed. The phrase refers to a zone where food moves from its production site to its consumption site, taking into account the land it grows on, the path it takes, the marketplaces it visits, the tables it ends up on. The term "foodshed" refers to a "socio-geographic space: human activity embedded in the natural integument of a particular place." Foodsheds and watersheds are similar in that they

delineate the movement of food that nourishes a specific population, while watersheds delineate the flow of water that drains to a specific area. By utilizing the conceptual principles of the watershed, foodsheds are seen as a combination of natural and societal structures. The internet can be used to locate foodshed maps of almost any area. Some maps are interactive, where sources in an area can be found for organic produce, microbreweries, farmers' markets, orchards, cheese makers, or other specific categories within a 100-mile radius. A 100-mile radius is considered "local food" because it is large enough to reach beyond a big city, and small enough to feel truly local. It is also relevant to the mapping functionality of Polomolok Public Market in terms of locating maps. Wherein, it can locate the space rented by the vendors, determine the availability of space, shows the profile of vendors, and also filtered out the unpaid space every month.

Designing In-Store Navigation Systems in Physical Retail (2023)

Physical retail faces the challenge of remaining attractive to customers in the age of e-commerce. In-store navigation systems are one way to mitigate this issue. These software systems allow customers to navigate through the retail store. We derive design requirements (DRs) for in-store navigation systems based on eight interviews with customers and employees of furniture stores. We illustrate the implementation of the DRs in a conceptual prototype designed with the platform "Hololink." Initial evaluation results ($n = 20$) show that customers perceive such a solution for physical retail as mainly positive. We contribute to research and practice by showing how to design in-store navigation systems.

In-store navigation systems are digital software products applied in (large) retail stores aiming to simplify locating specific departments or items, which may reduce customers' dissatisfaction with being unable to find what they are searching for (Merkle, 2020). Studies show that the likelihood of customers using search and navigation systems, including in-store navigation, product exploration, and product recommendation, is high (Betzing et al., 2019; Márquez and Ziegler, 2023; Merkle, 2020).

In-store navigation systems could create a convenient customer experience in physical retail. We have derived DRs for in-store navigation systems that aim to support researchers and practitioners in designing them. The evaluation of our conceptual prototype (n = 20) shows that customers perceive such a system mainly positively. We admit the limitations of our study.

Integrated Stall Rental Management E-government System

This study aimed to develop web-based e-governance system module specifically used for market stall management transactions having the Economic Enterprise and Development Management Office of this city as the pilot organization. This system provides easier and simpler ways of handling operations resulting to an increased throughput and speed of operational processes in the organization. The use of information technology to free movement of information to overcome the physical bounds of traditional paper and physical based systems. The use of technology to enhance the access to and delivery of government services to benefit citizens, business partners and employees It involves the automation or computerization of existing paper-based procedures that will prompt new styles of leadership, new ways of debating and deciding strategies, new ways of transacting business, new ways of listening to citizens and communities, and new ways of organizing and delivering information enterprises and they automates and systematizes the assessment and billing of charges to stallholders and other market occupants. To increase efficiency in collections and monitoring patterns of payment or non-payment, Amellar Public Market System (PMS), includes a digital physical layout of the market, and provides the corresponding information for each stall and stallholder. It also allows supervision of collection activities, and also handles cash ticket implementation and monitoring. The features of Amellar Public Market System (PMS) is to digitizes public market layout, which shows information for each stall, stall holder, and common areas or facilities, Automates the assessment and billing of fees and charges to stallholders,

occupants, and vendors, processes online payments of stall rental charges and other market fees, monitors cash ticket flow for ambulant vendors, and to integrates an automated collection and payment validation.

iClinics

Clinic Management System is a computerized system for tracking patients' information, diagnoses, and prescriptions with a particular healthcare facility like a hospital or any medical clinic. We bring you a smart, tech-savvy solution that works efficiently and as a result, gives your staff more time to focus on better things like patient healthcare. Our smart clinic software reminds you and your patients as well regarding their appointment through its automated feature (MLAI Solution 2018).

Development of 2D Map and 3D Model of GIT Campus

The objective of this study is to create the 2D map and 3D model of the campus and to present the current status using the GIS concept. The aim of this project is to show how softwares like google earth, SketchUp and QGIS can be used to represent 2D and 3D environment with more reliability, accuracy and less time. In this paper, we are giving a simple and cheapest solution to create virtual 3D campus of any educational institute. This method and techniques will be very useful for the owner of College, Institute or University. By using this method they can make a virtual model of campus. These 3D campus models can also be published on the website of that Institute or University. In this study, we used simple digital images and very cost effective SketchUp software. So the need of this kind of study is very important and useful for 3D modeling community.

Knowledge Management System

The article provides a comprehensive overview of Knowledge Management Systems (KMS), highlighting their role in managing organizational knowledge. It correctly emphasizes that while IT is an essential enabler of KMS, it is not the

only aspect of knowledge management. The authors rightly caution against overemphasizing IT at the expense of social and cultural facets of the system. It has useful examples of how IT can support this system, such as finding experts, sharing knowledge, and analyzing transaction data. These examples illustrate the diverse ways in which IT can facilitate knowledge management.

One strength of the article is its balanced approach, recognizing both the importance of IT in Knowledge Management System and the need to consider other aspects of knowledge management. The authors' assertion that there is no single role of IT in knowledge management and no single technology comprising KMS is particularly insightful. Overall, the article provides a solid foundation for understanding the role of IT in knowledge management and sets the stage for further exploration of this important topic.

Property Management System

According to, Pandya Y., et al (2023). The price of a house is increased every year according to the location. It indicates the current economic situation so there is a need for a system to predict house sales in the future for both buyer and the seller. Here we use a dataset of Pune with more than 68,613 entries of train data and test data of housing sales in India. This analysis includes the effect of markdowns on sales and the extent of effects on the sales by size, price, area etc. has been analysed using different machine learning algorithms. Estimating home sales can help the developer determine the selling price of the home and the best time for the buyer to purchase the home. The output values of the algorithms are estimated based on the input characteristics from the data presented in the system and the analysis is a process. Physical conditions, concept and location are the three factors that determine the selling price of a property.

Property investment is also one of the safest investments in terms of valuable assets, good returns, and an asset of coming so many generations. Also, it is an asset which can generate a regular income. Although long established system of

Buying and selling property has become outdated and insufficient today. This research paper's objective is to make buying and selling property easier and safer for buyers and sellers from their comfort. Also giving an opportunity to the Broker and making the overall process easy and fast without any problems.

Potential impact of property management on the market value of dwellings in multi-owned housing

According to, Muczyński The expanding role of property management services and the increasing share of multi-owned housing in many housing markets raises issues concerning the impact of such services on property value in this sector. The presented study investigated the potential impact of property management on the market value of dwellings in multi-owned housing developments. This impact was identified based on estimated implicit values of the extracted common property attributes dependent on property management services. An original research methodology tailored to the institutional arrangement in multi-owned housing developments was used, involving the estimation of hedonic regression models. Empirical research was conducted on representative samples of multi-owned housing developments in the housing market of the city of Olsztyn, Poland. The results showed that common property attributes such as building condition, building accessibility, cleanliness and orderliness, and land development significantly influenced dwelling prices and thus their market value. In extreme cases, the cumulative potential impact of property management services estimated on this basis can reach up to ca. 30% of the dwellings' value. These findings have far-reaching policy and practical implications for urban development policies, including the built environment, land use and local housing, as well as for housing market investors and developers, homeowners associations, dwelling owners and property managers. Hence, it is recommended to expand research this topic to other housing markets functioning in different institutional arrangements.

Applying Perceptual Mapping Method for Successful Positioning Strategy

According to Gigauri, I. The theoretical grounds of perceptual mapping and its importance in branding. The paper explains the use of perceptual maps and demonstrates how then collected data can be transferred into visual maps. Simultaneously, it examines various methods of perceptual mapping, and illustrates advantages and disadvantages of different mapping techniques. The paper seeks to make recommendations for business about the benefits in using perceptual mapping in their brand and product positioning strategies. Perceptual mapping method as a powerful tool in marketing research is also useful for service companies.

According to the research by Rekettye & Liu (2001), the methodology and techniques of perceptual mapping are complicated and difficult to implement for company managers, who usually require fast and quick analysis. Besides, many research papers present the map without showing how it had been constructed (Rekettye & Liu, 2001). Therefore, the paper aims to show how perceptual maps are developed based on collected data. Furthermore, the paper provides an overview of methods and techniques of perceptual mapping, as well as its importance in branding, positioning, and repositioning grounded on perception theories.

LOCAL

PMS: Public Market System

Public markets play an important role in communities because they make basic goods and services accessible to citizens. They also promote small and micro-businesses. Unfortunately, many LGUs have to subsidize the operations of public markets because of high delinquency or non-remittance of fees. Public markets can become viable economic enterprises and they automates and systematizes the assessment and billing of charges to stallholders and other market occupants. To increase efficiency in collections and monitoring patterns

of payment or non-payment, Amellar Public Market System (PMS), includes a digital physical layout of the market, and provides the corresponding information for each stall and stallholder. It also allows supervision of collection activities, and also handles cash ticket implementation and monitoring. The features of Amellar Public Market System (PMS) is to digitizes public market layout, which shows information for each stall, stall holder, and common areas or facilities, Automates the assessment and billing of fees and charges to stallholders, occupants, and vendors, processes online payments of stall rental charges and other market fees, monitors cash ticket flow for ambulant vendors, and to integrates an automated collection and payment validation.

Business Management Practices Of Stall Owners

This study focuses in determining the entrepreneurial practices of stall owners inside the Mall of the Valley of Tuguegarao City which emphasizes the presence/importance of commercial stall that cannot be underscored for the very reason that these stalls serve almost all of the needs within the area. It utilized the descriptive correlational research design which according to Fraenkel and Wallen (1993, p. 27) states that descriptive correlational survey describes an existing relationship between variables and degree to which two or more quantitative variable are related and it does so by the use of a correlational coefficient. This research undertaking utilized a structured questionnaire that was patterned after the questionnaire of Dr. Ronald Lopez to gather data needed in this study. It was discovered in this particular study, that the stall owners deliver quality products and services despite their difficulty of raising capital resources due to unavailability of assistance from the government, stall owners still see to it that in terms of social responsibility, their entrepreneurial practices satisfy the consumer literature.

Synthesis

It is evident that the use of online devices and technologies in marketing has become increasingly important in the modern era. Consumers are influenced by physical maps in store environments, as they help to create mental maps of retail stores. Studies show that consumers who have better mental maps of retail stores are more likely to create efficiencies in shopping and determine the value of traveling a distance to obtain certain products. The Rental Management System market of 2024 is characterized by robust growth propelled by several interconnected factors. Primarily, technological advancements continuously elevate the efficiency and adaptability of Rental Management System products, amplifying their appeal across diverse industries. This technological evolution not only enhances the functionality of these systems but also makes them more accessible and user-friendly. Market mapping, a strategic analysis tool, involves visually organizing competitor information in an industry to discern market trends and strategic insights. By gathering data on competitors' revenue, growth rate, and industry sectors, and representing it graphically, businesses can understand rivals' positions and potential strategic directions. This technique provides a visual representation of information, aiding in the identification of market trends and competitors' relative positioning, making it a simple yet powerful tool for strategic planning. Cloud-based technology, such as Curriculum Mapping and Curriculum Management Systems, has become a popular solution for managing curriculum and data management in various fields, including education and business. The literature highlights the benefits of using cloud-based technology for managing curriculum and data, including the ability to systematically demonstrate alignment between course outcomes and other curricula elements. The concept of foodsheds, which refers to the geographical area that provides food for a certain population, is also relevant in the context of retail stores. Foodsheds can be located using the internet, and some maps are interactive, allowing customers to find sources in a specific area for organic produce, microbreweries, farmers' markets, orchards, cheese makers, or other specific

categories. In-store navigation systems, which are often based on augmented reality (AR), are also becoming increasingly popular in the retail industry. These systems offer a convenient customer experience in physical retail, allowing customers to navigate through the retail store and locate specific departments or items. Studies show that customers are likely to use in-store navigation systems and that they perceive such systems mainly positively. Public markets serve as vital community hubs by providing access to essential goods and services while fostering the growth of small and micro-businesses. However, many local government units (LGUs) face challenges in sustaining public market operations due to high delinquency or non-remittance of fees. To address these issues and enhance efficiency, the Amellar Public Market System (PMS) offers a comprehensive solution. This system digitizes the public market layout, providing detailed information for each stall and stallholder, and common areas and facilities. By automating the assessment and billing of fees, processing online payments, and monitoring cash ticket flow, the PMS streamlines collection activities and enhances payment validation. Ultimately, the integration of digital tools and automated processes transforms public markets into viable economic enterprises, ensuring better management and sustainability for the benefit of communities. Integrated Stall Rental Management E-government System endeavors to develop a web-based e-governance system module tailored for managing market stalls, with the Economic Enterprise and Development Management Office of a specific city serving as the pilot organization. By leveraging information technology, the system aims to streamline operations, enhancing throughput and speed of processes within the organization. Through the adoption of technology, the system facilitates the seamless flow of information, transcending the limitations of traditional paper-based systems. Furthermore, it seeks to improve access to and delivery of government services, benefiting citizens, business partners, and employees alike. This entails the automation and computerization of existing paper-based procedures, thereby fostering new approaches to leadership, decision-making, business transactions, citizen engagement, and information management. Ultimately, the integration of

technology in governance processes signifies a transformative shift towards efficiency, accessibility, and innovation.

In summary, the integration of online devices and technologies in various sectors, particularly marketing, retail, and governance, has become paramount in the modern era. Market mapping aids businesses in understanding market trends and competitors' positions, guiding strategic planning. Web development ensures seamless access to web applications for smartphone users worldwide, contributing to a broader digital reach. In the retail sector, concepts like foodsheds and in-store navigation systems enhance customer convenience and engagement. Moreover, innovative systems like the Amellar Public Market System and Integrated Stall Rental Management E-government System demonstrate the transformative potential of technology in governance processes, improving efficiency and accessibility for citizens and stakeholders. Overall, the convergence of technology and traditional practices signifies a shift towards efficiency, accessibility, and innovation across various sectors, paving the way for a more interconnected and digitally driven future. Also benefits of having 2D Map in system is very help. Wherein, user can easily locate the location be used as a traditional map with building labels and a legend.

TECHNICAL BACKGROUND

Overview of Current Technologies to be Used in the System

The introduction of smartphones marked a pivotal moment in technology, transforming the way we communicate and access information. These hand-held devices become our constant companion, enabling us to stay connected through browsing the internet and perform a multitude of tasks. In this modern time today, technologies are evolving continuously which are used for faster, efficient, and paperless methods of management and navigation. The Proponents of the system will utilize cutting-edge technology, both hardware and software in order to develop and implement the web-based platform for The Efficiency of Market Navigation through Store Mapping for Polomolok Public Market. As the world increasingly digitalizes, Software development drives innovation for the demand of this era. The proponent utilizes the use of Laptops and Computers which provides the necessary computing capability for the development process. In line for software development where it is a vast field with specialize areas and a unique goal to achieve the developmental stage for software implementation. Building, managing, debugging programs and web design with the use of Visual Studio Code IDE. The use of Database Management System like MySQL, MSSQL or MongoDB in managing the application data. In addition to the web application software management, the XAMPP including PHP, JSON, and perl platforms will be utilizes for database and website testing along with the use of web browsers. For public users who provides sensitive information when using the web-application such as personal detail, payments and receipt reports, and confidential documents. Implementing security measures and using cloud-computing is necessary to safeguard the data in the application from preventing unauthorized access, data loss, and data breach.

Calendar of Activities

In the first week, the coordinator had a course orientation, she discussed the groupings, requirements, and who will be the prospect adviser to guide the student for this project.

After a week, she instructed the student to form a group for Capstone 1. The students had to form a group consisting a minimum of two (2) to maximum of four (4) members to make the project. In the third week after forming a group, the proponents prepared several titles based on their areas of interest and presented it to the coordinator to filter out the titles that are common and already existed. During the fifth week after the preparation and filtering out of the titles, the proponents then proceeded to select an adviser that will guide them throughout the project. In the seventh week after the selection of capstone adviser, the proponents were instructed to start creating the Chapter I: Introduction of their potential titles and in the eighth week the proponents were instructed to gather data in order to justify the needs in their project documentation. Wherein, each member was task to gather data based on the given topic.

This activity continued in the ninth week of data gathering and the same week the proponents gathered in one place to discuss the data gathered and proceeded to create Chapter II: Review of Related Literature/Systems and Chapter III: Technical Background. This involved research, revisions, and creating diagrams such as Context Flow Diagram (CFD), Data Flow Diagram (DFD), and Use Case Diagram to support the project. On the tenth week the proponents consulted and revised the documentation based on the suggestions of Capstone Adviser and proof-reading of documentation in preparation for their upcoming capstone project proposal defense.

After Capstone 1 final defense, proponents applied the recommendations of panelist on the documentation and system which is the system is currently in progress.

Resources

Resources that are needed by the user and being used by the proponents/developers by the users of the system:

Hardware Resources

- **Laptop**
 - Processor: Intel core i5 or higher
 - OS: Windows 10 Pro
 - RAM: 8GB or higher
 - Disk
 - HDD: 256GB
 - SSD: 256GB
- **Printer** - used by the developers to print documents or images to present the tangible resources for the project adviser and panelist.

Software Resources

- **Google Chrome or any web browser** - helps the developers to compare information or data, search for related literature and studies, and find evidence to support the study.
- **Visual Code Studio** - a development use for building the entire course of development stage.
- **XAMPP** - MYSQL, PHP, Perl are the platforms can be use by the developer for database and test website application.
- **API's** - discoverable catalogs of API collections to be use in the system including google API, jQuery, Geolocation Platform Services (GPS) like google maps API and Mapbox.
- **Bootstrap** - a free open-source framework for developing front-end web design application.
- **SVG API** - enables developers use JavaScript and common web technologies to create complex, dynamic, and scalable vector graphics directly within web apps.

- **Github** - helps the developer to collaborate with members and store their code remotely on Github and accessible from anywhere.
- **Google Maps** - it provides intuitive navigation, data visualization, and Google Maps API to integrate map into the web that can be used by the developer.
- **Inkscape** - used for creating illustrations, icons, logos, diagrams, and other graphical content. helps the developer to design a map for 2D map.

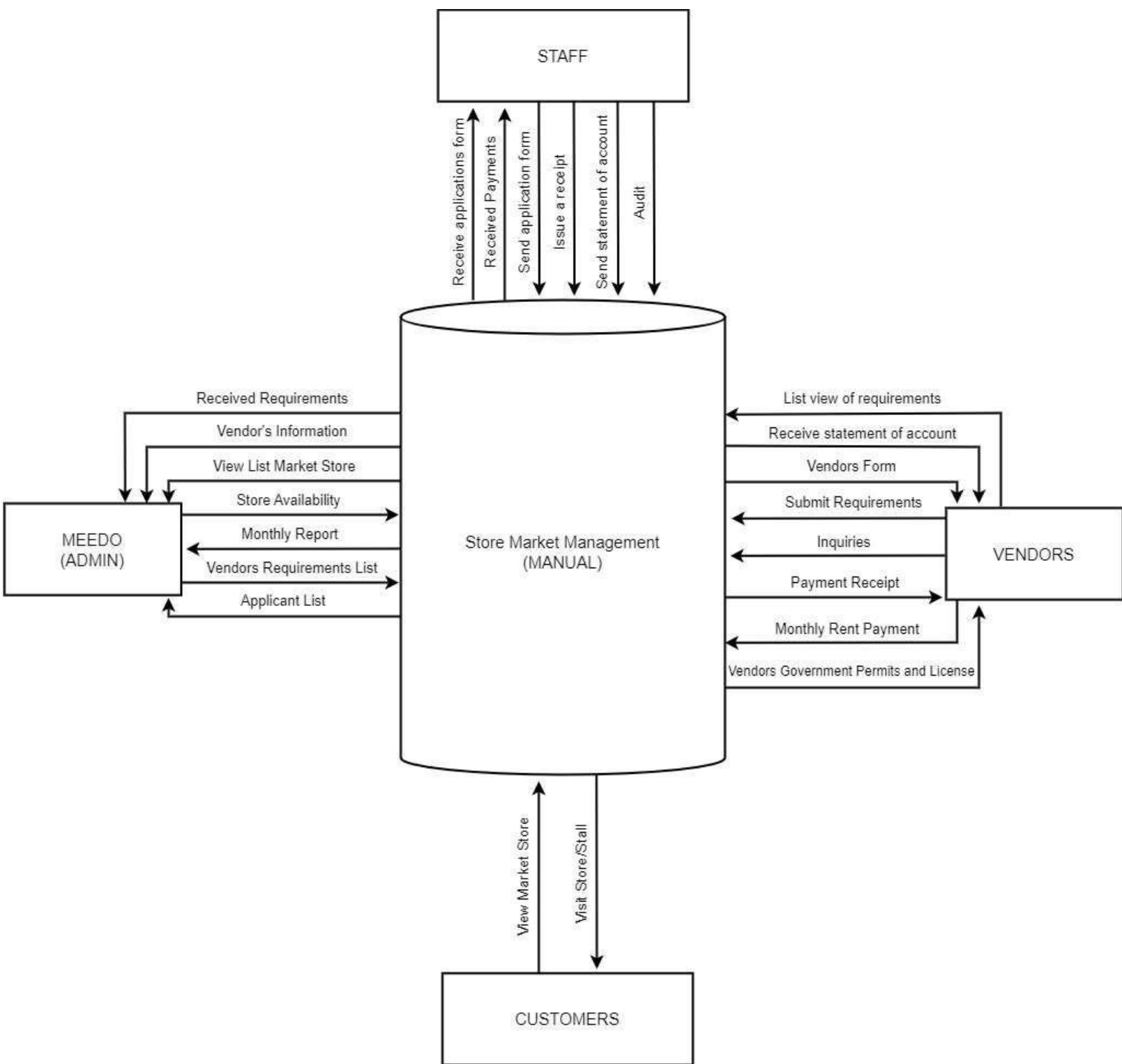


Figure 2.1. Context Flow Diagram (Manual)

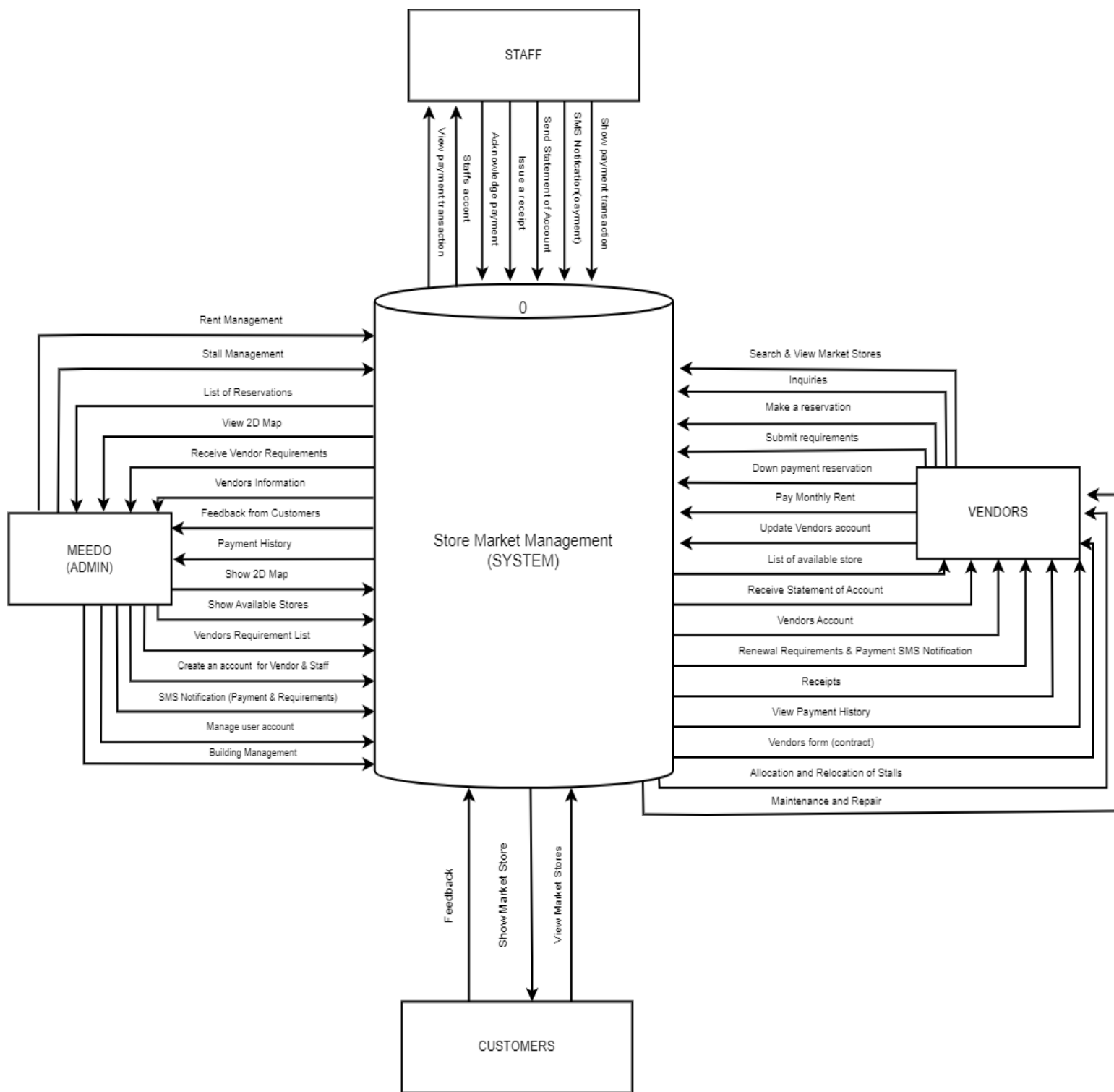


Figure 2.2. Context Flow Diagram

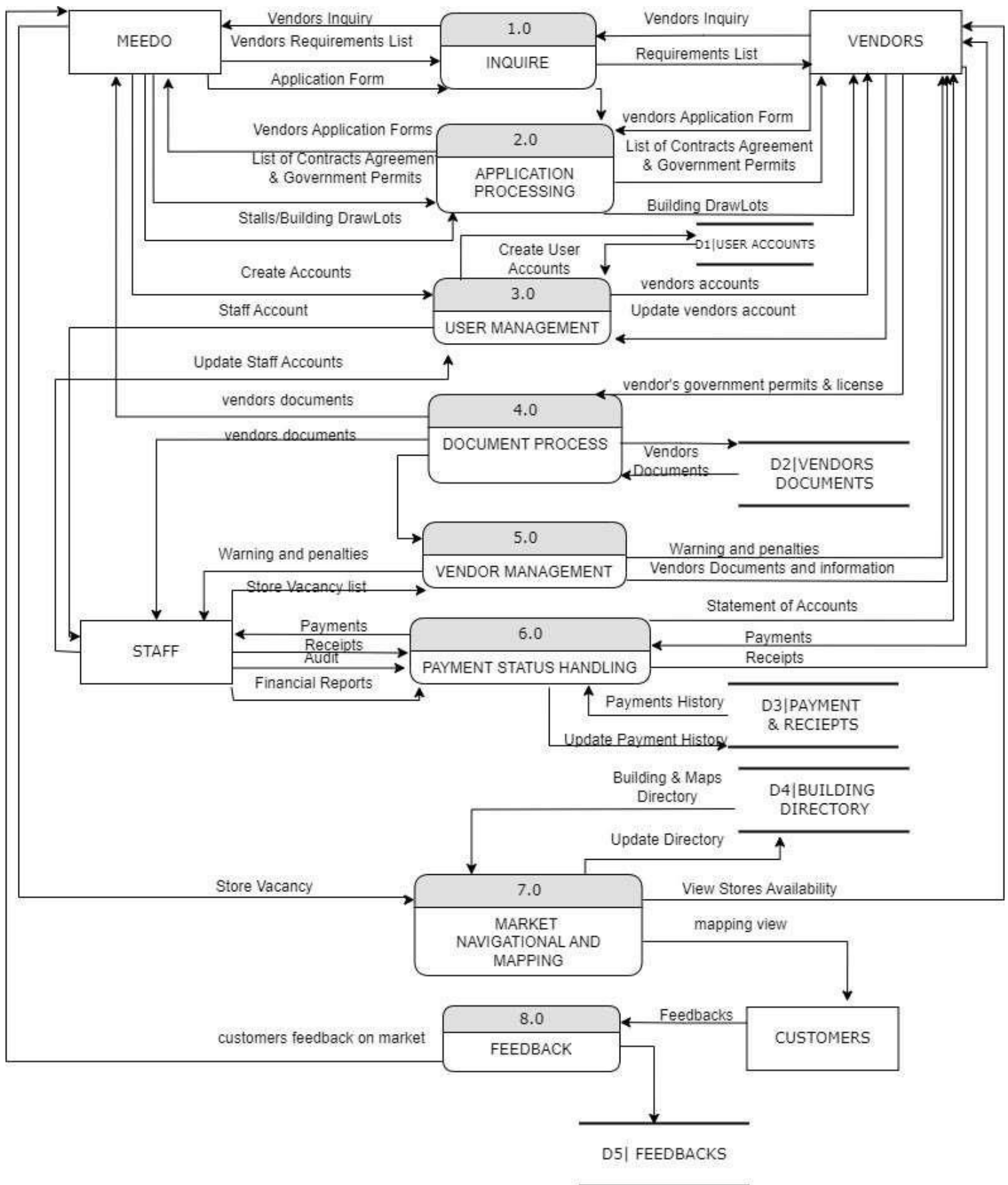


Figure 3. Data Flow Diagram

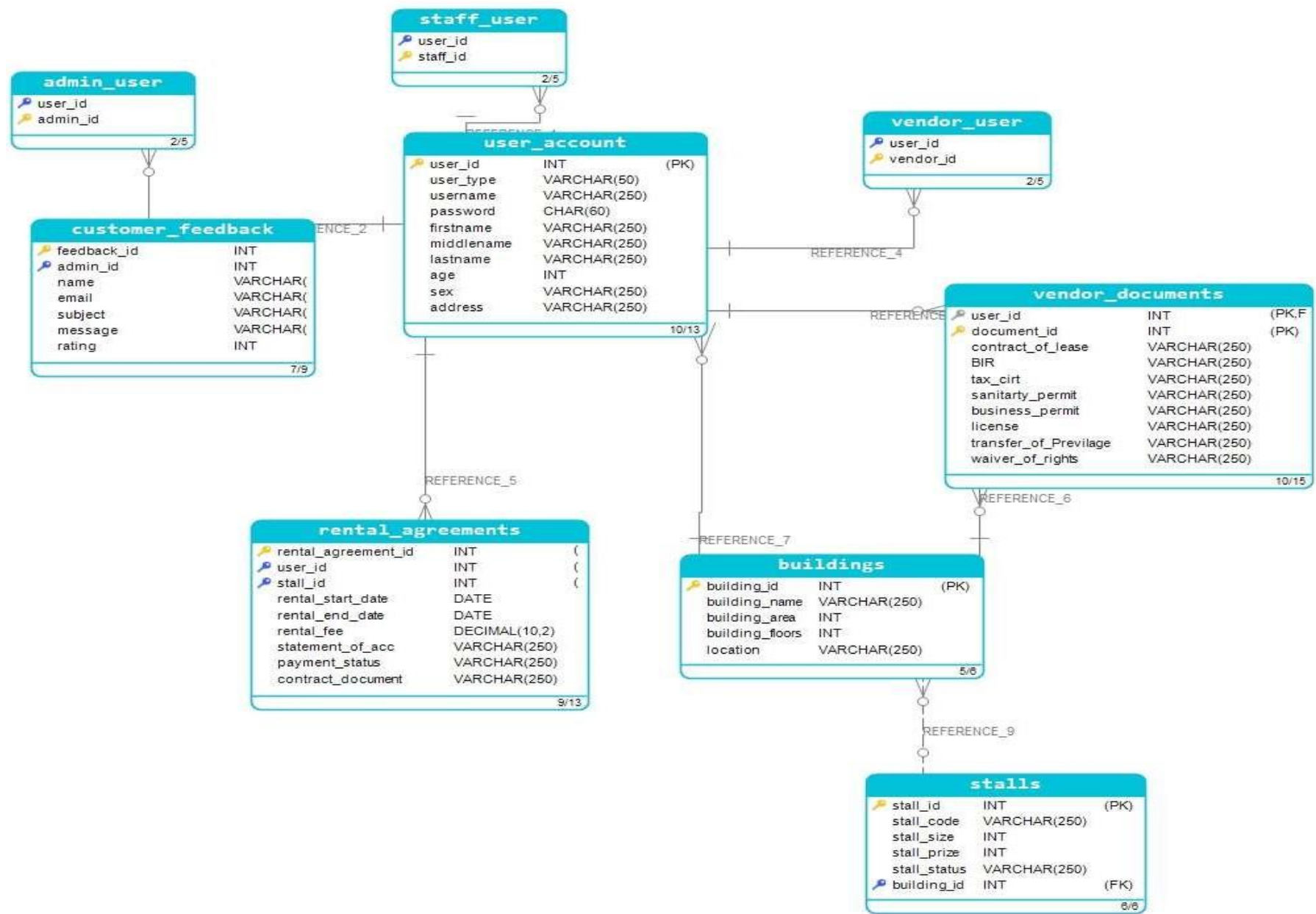


Figure 4. Entity Relationship Diagram

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APPENDICES






APPENDIX A. ACCOMPLISHMENT AND CONSULTATION REPORTS

ACCOMPLISHMENT AND CONSULTATION FORM

INSTRUCTION: List all the activities, improvements or accomplishments that has been made in your Capstone Project Documentation and System/Prototype. This form may be reproduced as you go along with your Capstone Project. This form should be submitted to your Capstone Project Adviser every week.

Capstone Project Title: _____

Week Number: 1

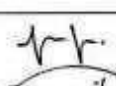



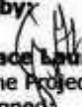
ACTIVITY/ ACCOMPLISHMENT	REMARKS/ COMMENTS/ SUGGESTIONS/ DELIVERABLES and DUE DATE
<ul style="list-style-type: none"> Course Orientation 	
Prepared by: Chua, Briar Rose C. 	Samontanes, Reyhan Jan B. 
Panaguiton, Mel Sheida J. 	Sayre, Prince Jay Mohammad Omar A. 
Checked by:	Noted by:  Ivy Grace Laurente Capstone Project Coordinator Date Signed: 03-01-2024

ACCOMPLISHMENT AND CONSULTATION FORM

INSTRUCTION: List all the activities, improvements or accomplishments that has been made in your Capstone Project Documentation and System/Prototype. This form may be reproduced as you go along with your Capstone Project. This form should be submitted to your Capstone Project Adviser every week.

Capstone Project Title:

Week Number: 5


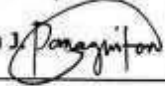



ACTIVITY/ ACCOMPLISHMENT	REMARKS/ COMMENTS/ SUGGESTIONS/ DELIVERABLES and DUE DATE
<ul style="list-style-type: none"> Submit another title to the prospect adviser. Brainstorming and discuss again another topic or titles with the group 	
Prepared by: Chua, Briar Rose C.  Panagulton, Meil Sheida J. 	Samontanes, Reyan Jan B.  Sayre, Prince Jay Mohammad Omar A. 
Checked by:	Noted by: Ivy Grace Laurente Capstone Project Coordinator Date Signed: 

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Capstone Project Title:

Week Number: 6

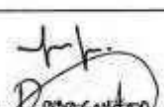
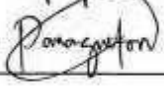



ACTIVITY/ ACCOMPLISHMENT	REMARKS/ COMMENTS/ SUGGESTIONS/ DELIVERABLES and DUE DATE
<ul style="list-style-type: none"> • Creating Chapter 1 for four (4) potential titles. • Chua was assigned for Project Management System • Panaguiton was assigned for Transportation Queueing System. • Samontanes for Dayong Information System. • Sayre for Mapping System 	
<ul style="list-style-type: none"> • Prepared by: • Chua, Briar Rose C.  • Panaguiton, Meil Sheida J.  	<ul style="list-style-type: none"> • Samontanes, Reyan Jan B.  • Sayre, Prince Jay  • Mohammad Omar A.
<ul style="list-style-type: none"> • Checked by: 	<ul style="list-style-type: none"> • Noted by:  • Ivy Grace Laurente • Capstone Project Coordinator • Date Signed:

ACCOMPLISHMENT AND CONSULTATION FORM

INSTRUCTION: List all the activities, improvements or accomplishments that has been made in your Capstone Project Documentation and System/Prototype. This form may be reproduced as you go along with your Capstone Project. This form should be submitted to your Capstone Project Adviser every week.

Capstone Project Title:

Week Number: 7

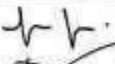
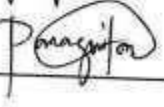



ACTIVITY/ ACCOMPLISHMENT	REMARKS/ COMMENTS/ SUGGESTIONS/ DELIVERABLES and DUE DATE
<ul style="list-style-type: none"> • Checking of Chapter 1 in for (4) potential titles. • Revision every titles. • Brainstorming and discuss again with group. 	
Prepared by: Chua, Briar Rose C.  Panaguiton, Mel Sheida J. 	Samontanes, Reyhan Jan B.  Sayre, Prince Jay Mohammad Omar A. 
Checked by:	Noted by:  Ivy Grace Laurente Capstone Project Coordinator Date Signed:

ACCOMPLISHMENT AND CONSULTATION FORM

INSTRUCTION: List all the activities, improvements or accomplishments that has been made in your Capstone Project Documentation and System/Prototype. This form may be reproduced as you go along with your Capstone Project. This form should be submitted to your Capstone Project Adviser every week.

Capstone Project Title: _____

Week Number: 13

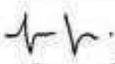
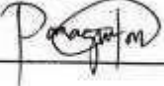



ACTIVITY/ ACCOMPLISHMENT	REMARKS/ COMMENTS/ SUGGESTIONS/ DELIVERABLES and DUE DATE
<ul style="list-style-type: none"> Continuation of revising the documents. Started creating the CFD, DFD, and USE CASE Diagram. Checking of the revised documents. 	
Prepared by: Chua, Briar Rose C.  Panaguiton, Mell Shelda J. 	 Samontanes, Reyhan Jan B.  Sayre, Prince Jay Mohammad Omar A.
Checked by:	Noted by:  Ivy Grace Laurente Capstone Project Coordinator Date Signed: _____

ACCOMPLISHMENT AND CONSULTATION FORM

INSTRUCTION: List all the activities, improvements or accomplishments that has been made in your Capstone Project Documentation and System/Prototype. This form may be reproduced as you go along with your Capstone Project. This form should be submitted to your Capstone Project Adviser every week.

Capstone Project Title:

Week Number: 12


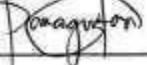



ACTIVITY/ ACCOMPLISHMENT	REMARKS/ COMMENTS/ SUGGESTIONS/ DELIVERABLES and DUE DATE
<ul style="list-style-type: none"> The proponents started revising the documents based on the suggestions/comments from the previous capstone project presentation. Sayre and Samontanes started creating the prototype of the system to be presented in the upcoming defense. 	
Prepared by: Chua, Briar Rose C.  Panaguiton, Mell Sheida J. 	Samontanes, Reyhan Jan B.  Sayre, Prince Jay Mohammad Omar A. 
Checked by:	Noted by:  Ivy Grace Laurente Capstone Project Coordinator Date Signed:

ACCOMPLISHMENT AND CONSULTATION FORM

INSTRUCTION: List all the activities, improvements or accomplishments that has been made in your Capstone Project Documentation and System/Prototype. This form may be reproduced as you go along with your Capstone Project. This form should be submitted to your Capstone Project Adviser every week.

Capstone Project Title: _____

Week Number: 11

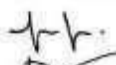
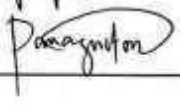




ACTIVITY / ACCOMPLISHMENT	REMARKS/ COMMENTS/ SUGGESTIONS/ DELIVERABLES and DUE DATE
<ul style="list-style-type: none"> Sayre created a prototype. The proponents are preparing for the Presentation for Capstone Project Proposal. Capstone Project Proposal Presentation was conducted to determine the topic to be approved before the defense schedule. 	
Prepared by: Chua, Briar Rose C.  Panaguiton, Meil Sheida J. 	Samontanes, Reyhan Jan B.  Sayre, Prince Jay  Mohammad Omar A.
Checked by:	Noted by:  Ivy Grace Laurente Capstone Project Coordinator Date Signed: _____

ACCOMPLISHMENT AND CONSULTATION FORM

INSTRUCTION: List all the activities, improvements or accomplishments that has been made in your Capstone Project Documentation and System/Prototype. This form may be reproduced as you go along with your Capstone Project. This form should be submitted to your Capstone Project Adviser every week.

Capstone Project Title:

Week Number: 9-10

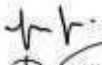
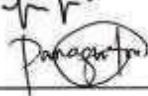



ACTIVITY/ ACCOMPLISHMENT	REMARKS/ COMMENTS/ SUGGESTIONS/ DELIVERABLES and DUE DATE
<ul style="list-style-type: none"> • Revision and Drafting documents of propose titles. • Data Gathering again for Mapping System. • Finalization of the documents. 	
Prepared by: Chua, Briar Rose C.  Panaguiton, Meil Sheida J. 	Samontanes, Reyan Jan B.  Sayre, Prince Jay Mohammad Omar A. 
Checked by:	Noted by:  Ivy Grace Laurente Capstone Project Coordinator Date Signed: 

ACCOMPLISHMENT AND CONSULTATION FORM

INSTRUCTION: List all the activities, improvements or accomplishments that has been made in your Capstone Project Documentation and System/Prototype. This form may be reproduced as you go along with your Capstone Project. This form should be submitted to your Capstone Project Adviser every week.

Capstone Project Title:

Week Number: 8

ACTIVITY/ ACCOMPLISHMENT	REMARKS/ COMMENTS/ SUGGESTIONS/ DELIVERABLES and DUE DATE
<ul style="list-style-type: none"> Signing of letters for Data Gathering Data Gathering for Transportation Queuing System and Mapping System. Chua and Panaguiton conducted an interview in Bulaong Terminal for Transportation Queuing System. Panaguiton and Samontanes also conducted an interview in Polomolok Public Market office Sayre was task to create a survey questionnaire for customers. 	
Prepared by: Chua, Briar Rose C.  Panaguiton, Meil Sheida J. 	Samontanes, Reyan Jan B.  Sayre, Prince Jay Mohammad Omar A. 
Checked by:	Noted by:  Ivy Grace Laurente Capstone Project Coordinator Date Signed:

APPENDIX B. SURVEY RESULT

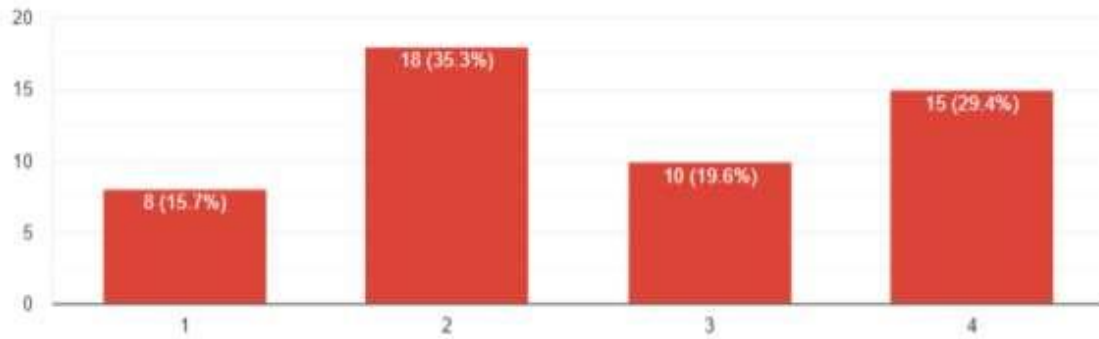
How often do you visit the public market of Polomolok?

 Copy

How would you rate the accessibility of stores in the public market?

 Copy

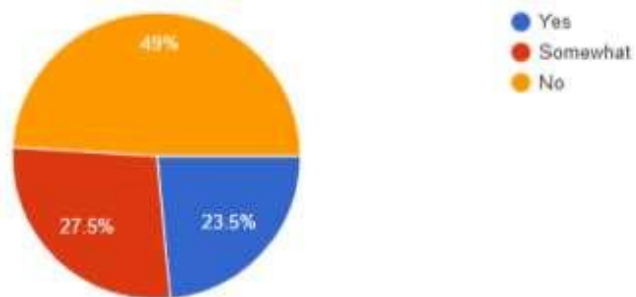
51 responses



Do you find it easy to navigate through the public market to find the stores you need?

 Copy

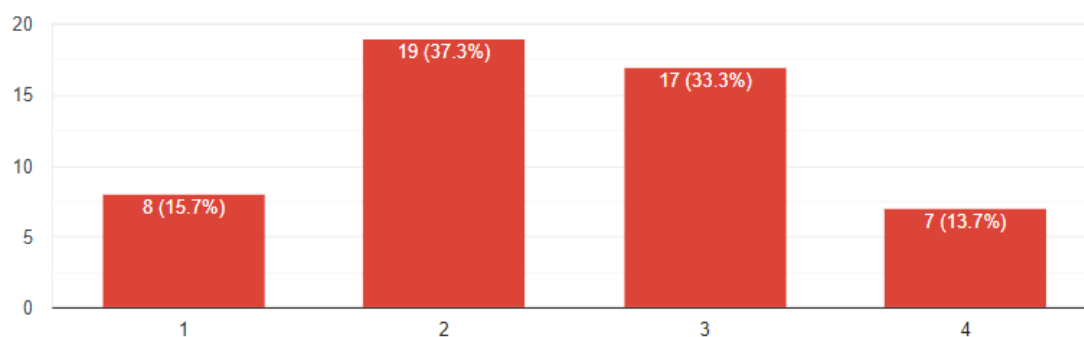
51 responses



How satisfied are you with the arrangement/layout of stores in the public market?

 Copy

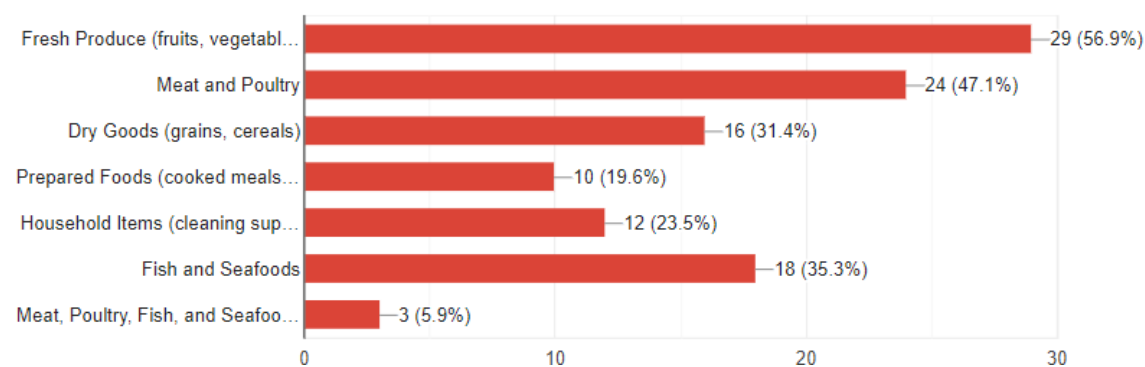
51 responses



Which section of the public market do you visit most frequently?

 Copy

51 responses



UNANG TRANSCRIPTION

Proponents: Anong kailangan ng vendors or applicant sir para makapag rent or makakuha sila ng pwesto sa palengke?

MEEDO Supervisor: Magbayad at magpasa ng requirements. Then, drawlots and still drawlots pa rin just in case maraming mag apply and of course naka depende pa rin sa Mayor if mag drawlots or may napili na.

Proponents: Ilang building ang nasa sa Public Market sir?

MEEDO Supervisor 1039, excluded laray and isa ta sa may pinakamalaking palengke sa South Cotabato

Proponents: ilan na ang total na naga rent or may pwesto na sa Palengke?

MEEDO Supervisor: 984 ang nagbabayad, 43 libre, and 12 stores padlock due to unpaid.

Proponents: Magkano po monthly rent payment nila?

MEEDO Supervisor: Gymnasium is 1190 – 6750, Fish Section is 950 pesos, Meat Section is 2200, Vegetables Section 1640-1730, floor J – 5,400, Thrift Section (2nd floor) is 700- 1600, and Fruit Section 1,200

Proponents: May plan ba na magrenovate for Market po?

MEEDO Supervisor: wala pay plan pero merong repair and maintenance na ginagawa.

Proponents: Since sabi niyo sir na gusto niyo maging paperless na, Sinong naga keep ng documents?

MEEDO Supervisor: Admin, like ma'am Jen.

Proponents: sa Accountant sir, monthly report din ginahanap niyo no?

MEEDO Supervisor: Yes, mga monthly kasi may quota kami every year. So para makita namo asa mi mag gukod.

IKADUHANG TRANSCRIPTION

Proponents: Giiba nila ang title sir, bale kiosk na siya sir ba kanang ibutang sa entrance ang system, tapos gi remove nila ang accountant sir.

MEEDO Supervisor: Kiosk? ibutang sa entrance?

Proponents: Kiosk gud sir, kanang sulod sa kiosk makita na ang mapping per building.

MEEDO Supervisor: Ah kiosk, pero how useful is that knowing na this is public market, dali ra siya makita?

Proponents: Useful siya sir specifically sa mga bagoan diri sa polomolok, mas convenient na saila magamit tung kiosk sir kay dali ra nila malocate kung unsa gina pangita sir.

Proponents: Intended ra gyud siya sa customers sir.

MEEDO Supervisor: Ah mao pud no, mabalaka lang ta kay maguba palang sa mga bata.

Proponents: Kato ra sir, pero include ra namo ang kiosk sir kay mao man gi ano sa panel, naka depende na sainyo sir kung ikuan ninyo siya.

MEEDO Supervisor: Ay oo, atleast ano lang idea lang ba, pero maka access japon mi?

Proponents: Yes sir may access gihapon mo.

Proponents: Diba sir confidential man tanan information/details sa stall?

MEEDO Supervisor: Oo confidential na ilang data.

Proponents: So if ana sir, kamo nalang ang mag input ana sa ilang ano like information sa vendor sir sa system.

MEEDO Supervisor: Ah yes, kami na ana.

Proponents: Mao rato sir, inform lang namo mo sa mga changes sa system sir.

MEEDO Supervisor: Ano wala pa diay mo flow sa system?

Proponents: Naa na sir, gusto unta namo ipakita ang flow sa system sir, kaso wala man among isa na kauban sir.

MEEDO Supervisor: So dili pa nato makita karon? wala pud mo copy diay?

Proponents: Sa karon sir wala pami mapakita. Naa mi copy sir kaso dili siya ma run sir, murag dili pa maka access ang lain na device sir.

Proponents: Ay sir pwede mi makapangayo ug pricing buildings sir?

MEEDO Supervisor: Nakahatag naman mi diba, mao mani inyong need oh.

Proponents: Ay oo sir pero selected buildings rana sir, karon gi include na nila tanan building sir maong mangayo mi atong the rest na pricing po.

MEEDO Supervisor: Okay okay, wait lang..ipa print na lang nako.

Proponents: Ayaw lang sir, picturan nalang namo sir.

MEEDO Supervisor: Sige lang, daghan raba ni..

MEEDO Supervisor: Or okay lang sendan mog soft copy? Naa mo gmail account?

Proponents: Yes sir, soft copy nalang sir.

MEEDO Supervisor: Tapos indicate lang namo kung government use ba siya kay naa man gud libre.

Proponents: Ay naa diay sir? Sige po, pa indicate nalang sir.

MEEDO Supervisor: Okay sige, paki sulat nalang ka kinsang email namo isend.

Proponents: Okay sir.





STI COLLEGE GENERAL SANTOS

Jose Catolico Avenue, General Santos City, 9500

Telephone: (083) 554-3038 Mobile: (0922) 8782904 ID: 403899

March 20, 2024

HON. BERNIE D. PALENCIA
Municipal Mayor
Polomolok, South Cotabato

Thru: **MR. LAURENCE A. GRIÑO**
MEEDO



Dear Mayor's Office,

Warm greetings!

We, the students of Bachelor of Science in Information Technology from STI College General Santos, are conducting a study entitled *"The Efficiency of Market Navigation through Store Mapping in Polomolok Public Market"*.

In connection with this, we are respectfully asks your permission to allow us to collect data in your office for the needs of our current study. The researcher defines the number of rent place and floorplan of Public Market.

Your favorable response in this regard will be truly appreciated. God Bless.

Very truly yours,

Briar Rose C. Chua

Meil Sheida J. Panaguiton

Reyan Jan B. Samontanes

Prince Jay Mohammad Omar A. Sayre

Noted by:

IVY GRACE C. LAURENTE
Capstone Project Coordinator

APPENDIX C. SAMPLE FORMS

APPLICATION FORM FOR BUSINESS PERMIT				
TAX YEAR _____		CITY/MUNICIPALITY _____		
No.: _____				
INSTRUCTIONS: 1. Provide accurate information and print legibly to avoid delays. Incomplete application form will be returned to the applicant. 2. Ensure that all documents attached to this form (if any) are complete and properly filled out.				
APPLICANT SECTION				
1. BASIC INFORMATION				
<input type="checkbox"/> New <input type="checkbox"/> Renewal		Mode of Payment : <input type="checkbox"/> Annually <input type="checkbox"/> Semi Annually <input type="checkbox"/> Quarterly		
Date of Application: _____		DTI/SEC/CDA Registration No.: _____		
TIN No. : _____		Tax Payer Category: <input type="checkbox"/> Large <input type="checkbox"/> Medium <input type="checkbox"/> Small <input type="checkbox"/> Micro		
Type of Business: <input type="checkbox"/> Single <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation <input type="checkbox"/> Cooperative				
Amendment: From <input type="checkbox"/> Single <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation				
To <input type="checkbox"/> Single <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation				
Are you enjoying tax incentive from any Government Entity? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Please specify the entity? <input type="checkbox"/> Local Investment <input type="checkbox"/> Provincial <input type="checkbox"/> PEZA				
Name of Taxpayer / Registrant				
Last Name: _____		First Name: _____		Middle Name: _____
Business Name: _____				
Trade name/ Franchise: _____				
2. OTHER INFORMATION				
Business Address: (e.g. Street, Barangay, Municipality, Province) _____				
Postal Code: _____		Email Address: _____		
Telephone No.: _____		Mobile No.: _____		
Owner's Address: (e.g. Street, Barangay, Municipality, Province) _____				
Postal Code: _____		Email Address: _____		
Telephone No.: _____		Mobile No.: _____		
In case of emergency, provide name of contact person: _____				
Telephone/Mobile No.: _____		Email Address: _____		
Business Area (in sq. m.) _____		Total No. of Employees in Establishment: _____		No. of Employees Residing within LGU: _____
Note: Fill Up Only If Business Place Is Rented Lessor's Full Name: _____ Lessor's Full Address: _____ Lessor's Full Telephone/Mobile No.: _____ Lessor's Email Address: _____ Monthly Rental: _____				
3. BUSINESS ACTIVITY				
Line of Business	No. of Units	Capitalization (for New Business)	Gross/ Sales Receipts (for Renewal)	
			Essential	Non-Essential
/				
I DECLARE UNDER PENALTY OF PERJURY that the foregoing information are true based on my personal knowledge and authentic records. Further, I agree to comply with the regulatory requirement and other deficiencies within 30 days from release of the business permit.				
SIGNATURE OF APPLICANT/ TAXPAYER OVER PRINTED NAME				

PRE-REQUIREMENTS FOR APPLICATION OF BUSINESS PERMITS AND LICENSE

New Business:

- Barangay Clearance/Market Clearance
- Sanitary Permit (Food related establishments and other businesses classified as "high risk business" only)
- Photocopy of the DTI/SEC/CDA Registration

OTHERS: Cedula

Note: Fire Safety Inspection Clearance after payment of fees and other charges from the MTO.

Renewal:

- Barangay Clearance/Market Clearance
- Sanitary Permit (Food related establishments and other businesses classified as "high risk business" only)
- Previous year's business permit

OTHERS: Cedula

Note: Fire Safety Inspection Clearance after payment of fees and other charges from the MTO.

LOCATION SKETCH

VERIFICATION OF DOCUMENTS

Description	Office/Agency	Yes	No	Not Needed
Barangay Business Clearance	Barangay			
Zoning Clearance	Zoning Officer			
Sanitary Permit	Municipal Health Office			
Occupancy Permit (For New)	Municipal Engineering Office			
Valid Fire Safety Inspection Certificate	Bureau of Fire Protection			
Market Clearance (For Stall Holders)	Office of the Municipal Market Administrator			
Solid Waste Management Seminar Certificate	MENRO			

Verified by: BPLO

JULIUS KIM V. CARDIÑO
OIC-BPLO

PERSONAL DATA SHEET

WARNING: Any misrepresentation made in the Personal Data Sheet and the Work Experience Sheet shall cause the filing of administrative/criminal cases against the person concerned.

READ THE ATTACHED GUIDE TO FILLING OUT THE PERSONAL DATA SHEET (PDS) BEFORE ACCOMPLISHING THE PDS FORM.

Print legibly. Tick appropriate boxes () and use separate sheet if necessary. Indicate N/A if not applicable. DO NOT ABBREVIATE.

(Do not fill up. For CSC use only)

I. PERSONAL INFORMATION

2. SURNAME			
FIRST NAME			NAME EXTENSION (Jr., Sr.)
MIDDLE NAME			
3. DATE OF BIRTH (mm/dd/yyyy)		16. CITIZENSHIP	<input type="checkbox"/> Filipino <input type="checkbox"/> Dual Citizenship <input type="checkbox"/> by birth <input type="checkbox"/> by naturalization Pls. indicate country:
4. PLACE OF BIRTH		If holder of dual citizenship, please indicate the details:	
5. SEX	<input type="checkbox"/> Male <input type="checkbox"/> Female		
6. CIVIL STATUS	<input type="checkbox"/> Single <input type="checkbox"/> Married <input type="checkbox"/> Widowed <input type="checkbox"/> Separated <input type="checkbox"/> Other/s:	17. RESIDENTIAL ADDRESS	House/Block/Lot No. Street Subdivision/Village Barangay City/Municipality Province
7. HEIGHT (m)		ZIP CODE	
8. WEIGHT (kg)		18. PERMANENT ADDRESS	House/Block/Lot No. Street Subdivision/Village Barangay City/Municipality Province
9. BLOOD TYPE		ZIP CODE	9504
10. GSS ID NO.		19. TELEPHONE NO.	
11. PAG-IBIG ID NO.		20. MOBILE NO.	
12. PhilHEALTH NO.		21. E-MAIL ADDRESS (if any)	
13. SSS NO.			
14. TIN NO.			
15. AGENCY EMPLOYEE NO.			

II. FAMILY BACKGROUND

22. SPOUSE'S SURNAME		23. NAME of CHILDREN (Write full name and list all)	DATE OF BIRTH (mm/dd/yyyy)
FIRST NAME	NAME EXTENSION (Jr., Sr.)		
MIDDLE NAME			
OCCUPATION			
EMPLOYER/BUSINESS NAME			
BUSINESS ADDRESS			
TELEPHONE NO.			
24. FATHER'S SURNAME			
FIRST NAME	NAME EXTENSION (Jr., Sr.)		
MIDDLE NAME			
25. MOTHER'S MAIDEN NAME			
SURNAME			
FIRST NAME			
MIDDLE NAME			

(Continue on separate sheet if necessary)

III. EDUCATIONAL BACKGROUND

26. LEVEL	NAME OF SCHOOL (Write in full)	BASIC EDUCATION/DEGREE/COURSE (Write in full)	PERIOD OF ATTENDANCE		HIGHEST LEVEL/ UNITS EARNED (if not graduated)	Year Graduated	Scholarship / Academic Honor Received
			From	To			
ELEMENTARY							
SECONDARY							
VOCATIONAL / TRADE COURSE							
COLLEGE							
GRADUATE STUDIES							

(Continue on separate sheet if necessary)

SIGNATURE	DATE
-----------	------



Republic of the Philippines
Province of South Cotabato
MUNICIPALITY OF POLOMOLOK
CONTRACT OF LEASE



KNOW ALL MEN BY THESE PRESENTS:

This Contract of Lease is made and executed this _____ day of _____, 20____ by and between

MUNICIPALITY OF POLOMOLOK, a public corporation existing under and by virtue of the laws of the Philippines, represented in this act by its Municipal Mayor hereinafter called the **LESSOR**,

and

MIC/MN _____ of legal age, married / single, a Filipino citizen, and a resident of _____, Polomolok, South Cotabato, Philippines hereinafter called the **LESSEE**.

WITNESSETH

The **LESSEE** is an awardee of Stall No. _____, Section of the PPM / PFT / PSCC during the caffle of stalls conducted on _____, 20____ at _____. The **LESSOR** hereby leases the aforesaid stall in favor of the aforementioned **LESSEE**, subject to the following terms and conditions:

1. That this contract of Lease shall expire every December 31, 20____, unless sooner cancelled or revoked for cause.
2. That the **LESSEE** shall in all times keep the stall in good sanitary condition, provide garbage receptacles and cleaning materials, follow the Municipal Solid Waste Management Scheme, and comply strictly with the provision of this code and all laws, ordinances, rules and regulations now existing or which may hereafter be promulgated. Failure to maintain the stalls in good sanitary condition after two (2) warnings by the Economic Enterprise Management shall be ground for revocation of the Contract of Lease.
3. That the **LESSEE** shall pay the corresponding rent for the stall and shall secure business permit and license in the manner and amount prescribed by this code.
4. That the **LESSEE** shall be allowed to take possession over his / her awarded stall only upon compliance with all prescribed requirements.
5. That the business to be conducted in the stall shall belong exclusively to the **LESSEE**. (Line of Business _____)
6. That in the case the **LESSEE** shall engage the services of a helper/s, the **LESSEE** shall promptly notify the Supervisor of their presence.
7. That the **LESSEE** shall not sublease his / her privilege to the stall nor permit another to conduct business.
8. Relinquishing / transfer of privilege over the stall to another person, who meets the qualifications, is hereby recognized provided that the following procedures are strictly followed:
 - a. Affidavit of Waiver of Relinquishment of Rights shall be executed by the legal awardee of occupant.
 - b. The relinquisher / transferor shall pay the amount of One Thousand Two Hundred Ten Pesos (P 1,210.00) as Transfer Fee upon completion of all requirements set by the Economic Enterprise Board. This amount shall be used solely for the improvement of the operations of the economic enterprises, most specifically the public market.
 - c. The transferee shall pay the amount of Twenty Four Thousand Two Hundred Pesos (P 24,200.00) as Occupancy Fee upon completion of all requirements set by the Economic Enterprise Board. This amount shall be used solely for the improvement of the operations of the economic enterprises, most specifically the public market.
9. That the **LESSEE** shall not use the privilege to the stall whether directly or indirectly as his / her collateral or security for any loan agreement with any public or private entity.
10. That any given time, should the stall be used for purposes other than which is intended or remain closed or idle for at least thirty (30) consecutive days without prior notice, the same be declared abandoned and the lease shall be automatically revoked by the Economic Enterprise Manager.
11. That non-payment of monthly rental within the first five (5) days after it has become due and demandable shall incur a 10% surcharge upon settlement of the overdue rental prior to the revocation of this lease contract shall follow this scheme:

After 05 working days from the due date	First and final Notice
After 10 working days from the due date	Padlocking of Stall
After 15 working days from the due date	Cancellation of Lease Contract & Business Permit

12. That the LESSEE shall not in any manner alter the structure and / or make any extension on the stall without prior approval from the Economic Enterprise Manager.

13. That the LESSEE shall secure electrical permit for the installation of electric meter in the stall leased to him / her and shall correspondingly pay its bills.

14. That the LESSEE shall provide padlocks and other protective devices to ensure safety of goods and products inside his / her stall.

15. That the LESSEE shall provide a signboard / billboard in front of his / her stall, the size and design of which shall be prescribed by the Economic Enterprise Management.

16. That the LESSEE shall provide a Fire Extinguisher (at least 5 pounds) in each stall except for fish, meat, and vegetable stalls.

17. That the LESSEE, only if applicable, shall be required to subject all their weighing scales for inspection and weighing accuracy to the Office of the Economic Enterprise Manager.

18. That violation of any of the foregoing terms and conditions and other applicable laws, ordinances, rules and regulations shall be sufficient cause for the cancellation or revocation of this Contract of Lease, and the simultaneous closure and / or padlock-keep of the stall.

IN WITNESS WHEREOF, the parties have hereunto set their hands this _____ day of _____, 20____ at Polomolok, South Cotabato, Philippines.

BY _____

Municipal Mayor / LESSOR

Declarant / LESSEE

SIGNED IN THE PRESENCE OF:

_____ and _____

ACKNOWLEDGEMENT

REPUBLIC OF THE PHILIPPINES)
PROVINCE OF SOUTH COTABATO) S.S.
MUNICIPALITY OF POLOMOLOK)

SUBSCRIBED AND SWORN to before me this _____ day of _____, 20____, personally appeared _____, representing the Municipality of Polomolok, with Community Tax Certificate No. _____ issued at Polomolok, South Cotabato, Philippines on _____, 20____ and MR./MS. _____ with Community Tax Certificate No. _____ issued at Polomolok, South Cotabato, Philippines on _____, 20____, both known to me to be the same person who executed the foregoing instrument and acknowledged to me that the same is their free and voluntary act and deed. This instrument consisting of two (2) pages including this page has been signed by the parties and their instrumental witnesses.

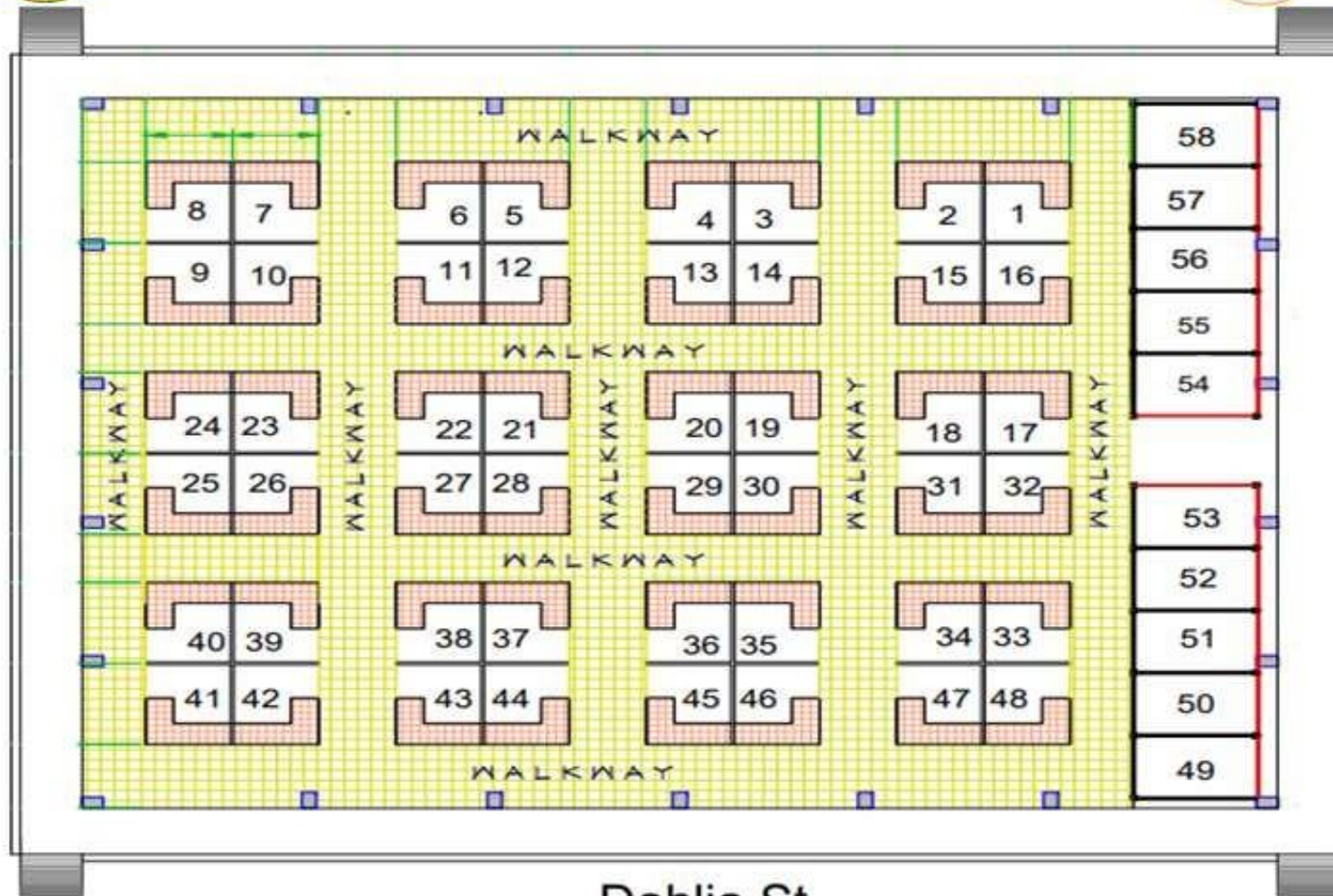
WITNESS MY HAND AND SEAL at the place and on the date first above written.

NOTARY PUBLIC

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

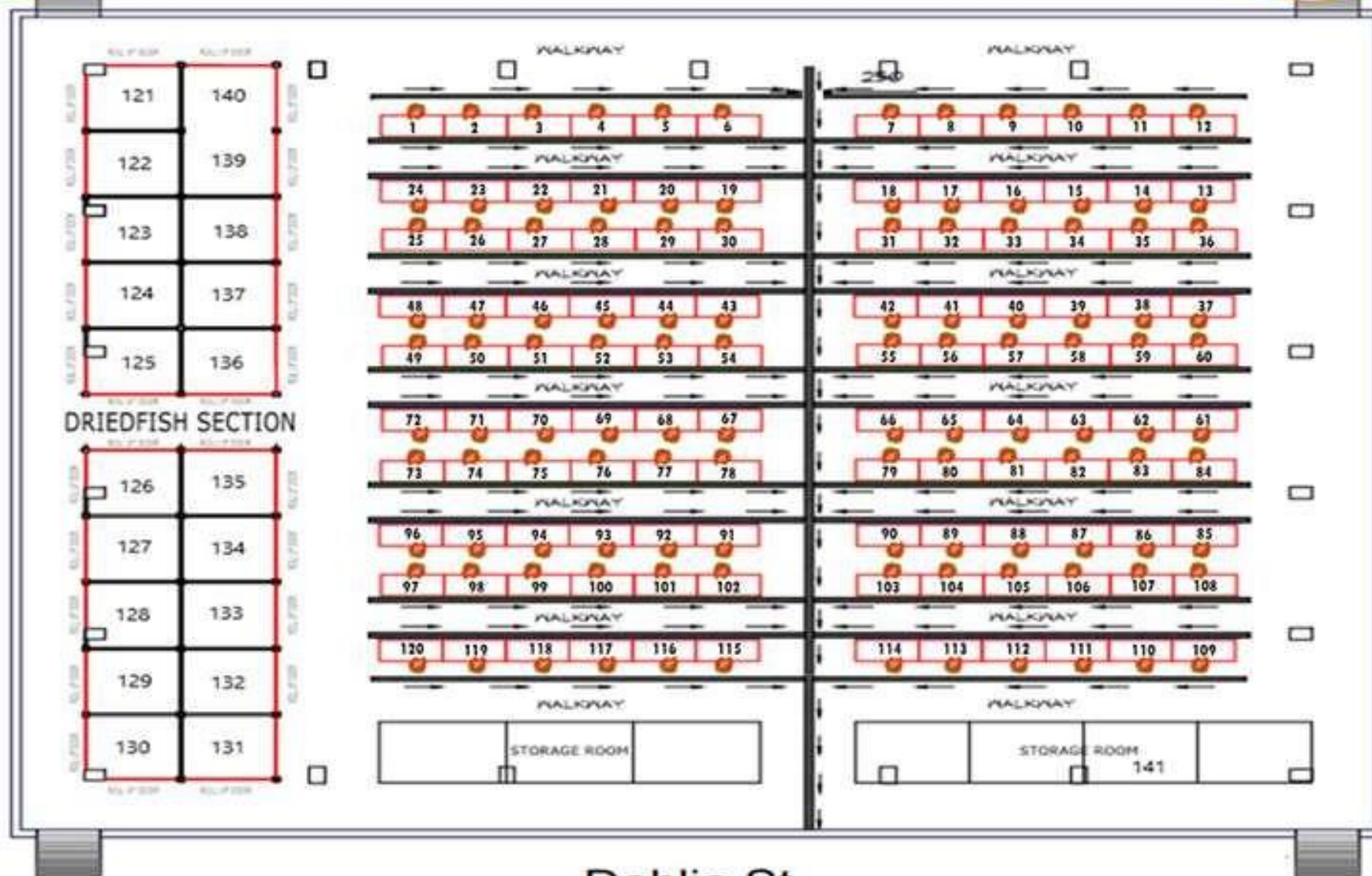


Building F



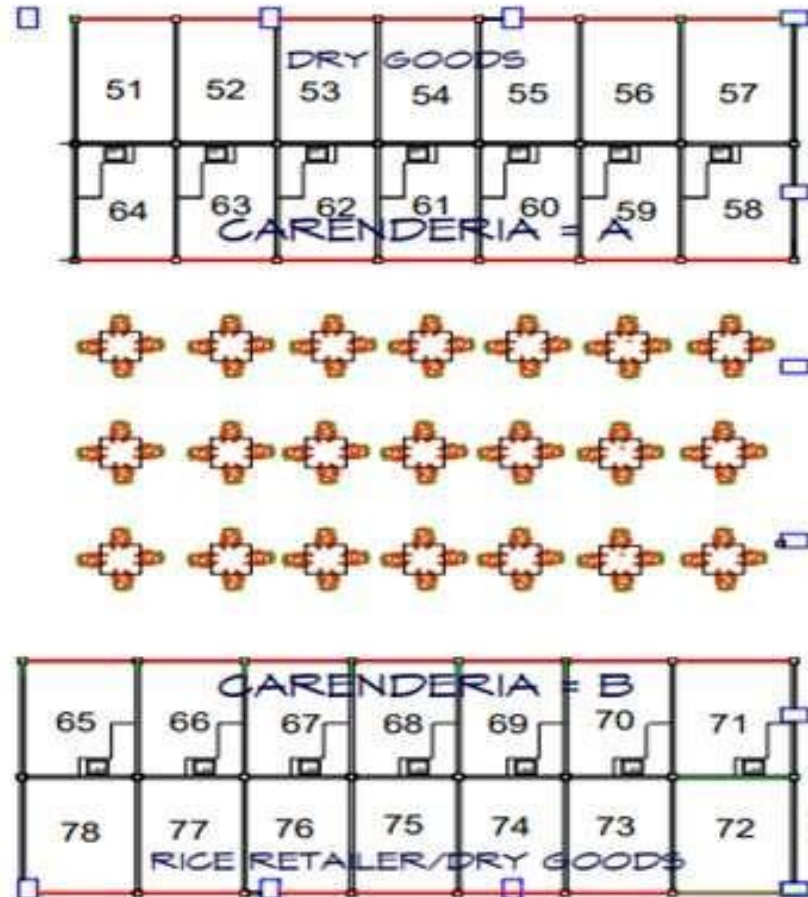
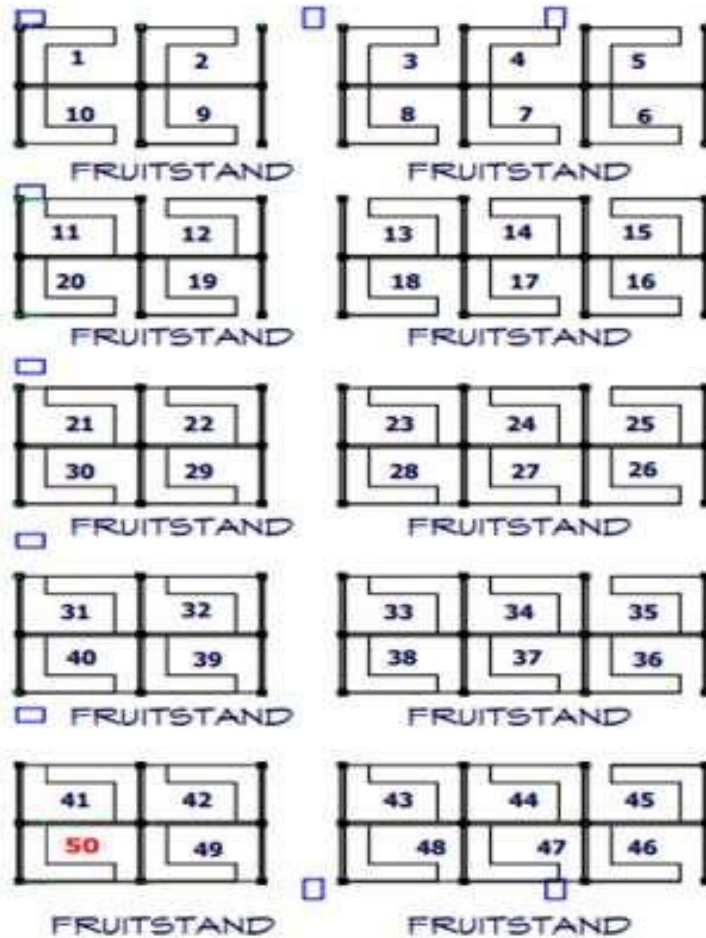


Building G



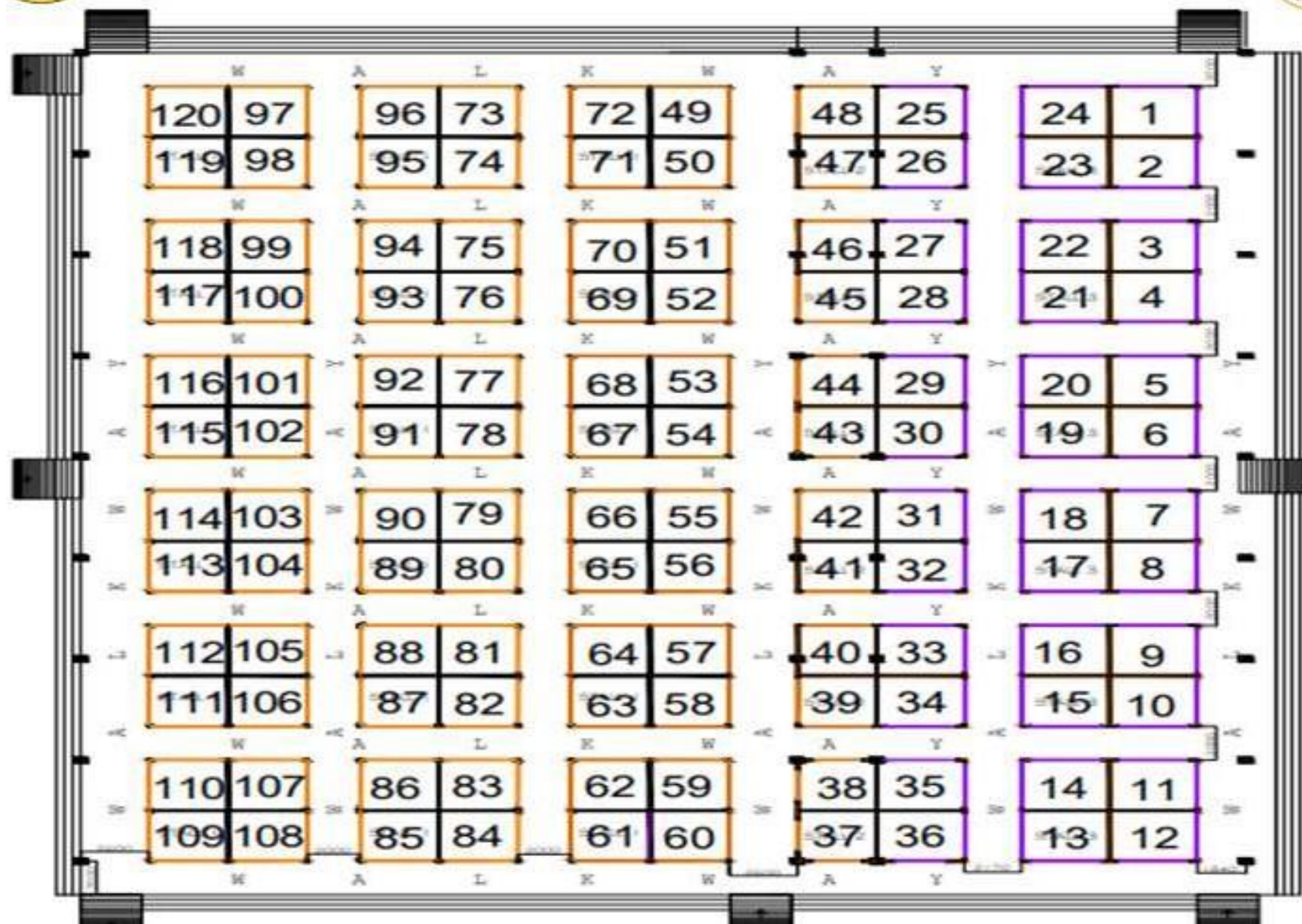


Building H





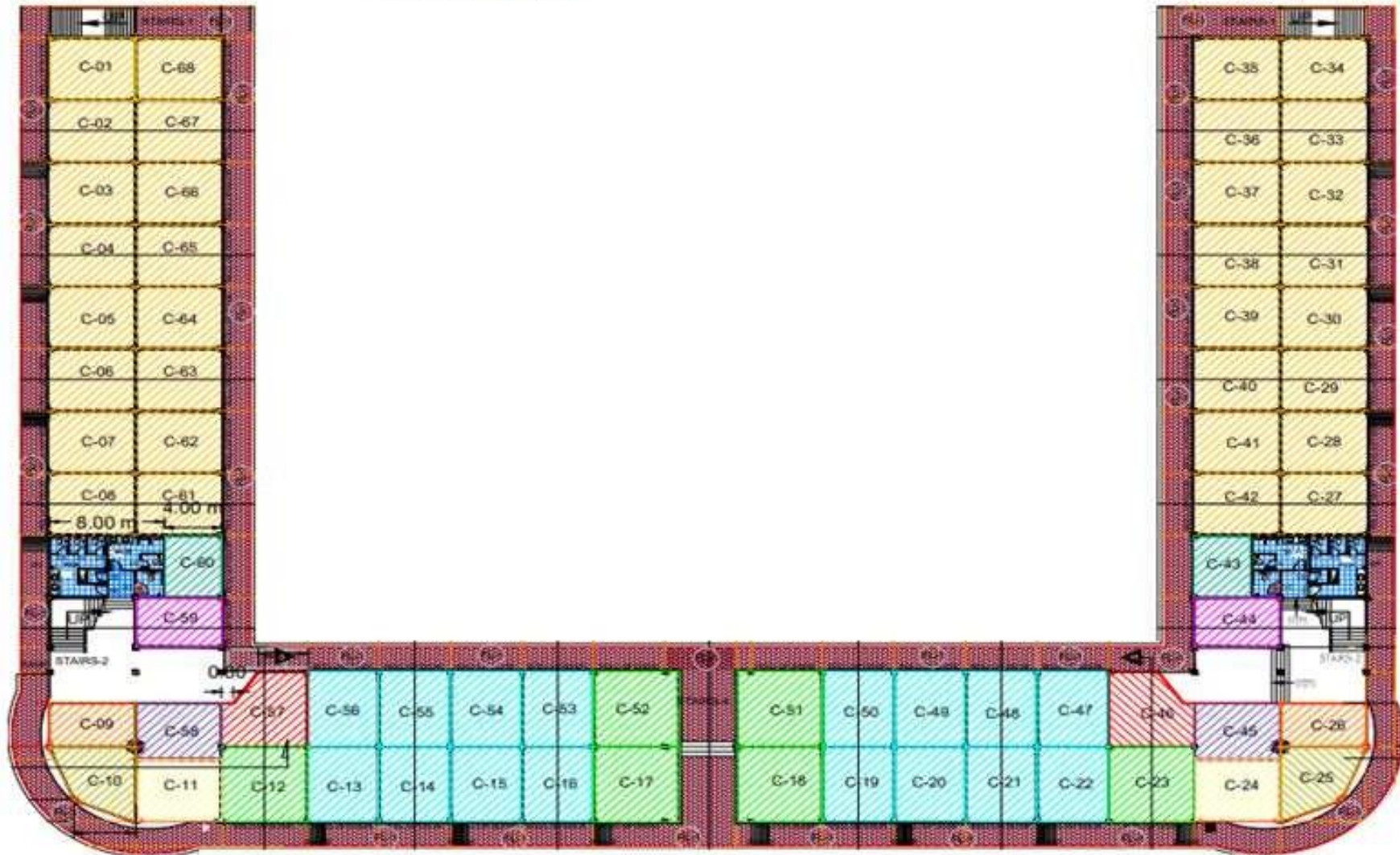
Building B





Building C

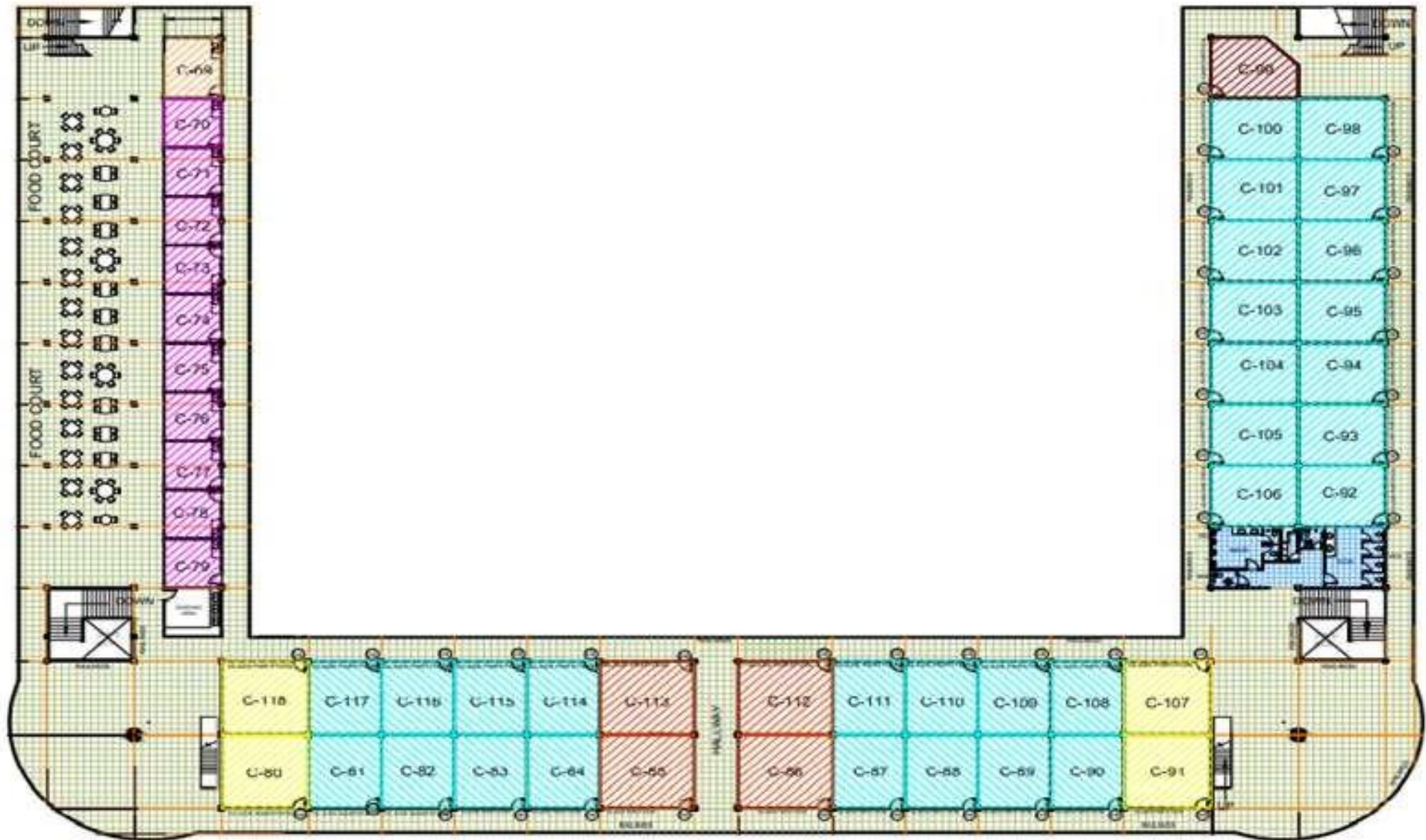
Ground Floor





Building C

Second Floor





Building B Extension



Municipal Gymnasium

Building B	B-131	B-132	B-133	B-134	B-135	B-136	B-137	B-138	B-139	B-140	Dahlia St.
	B-130	B-129	B-128	B-127	B-126	B-125	B-124	B-123	B-122	B-121	

U Shape Building



Building D

Pioneer Avenue

44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Municipal Ground Plaza

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----

Sampaguita St.



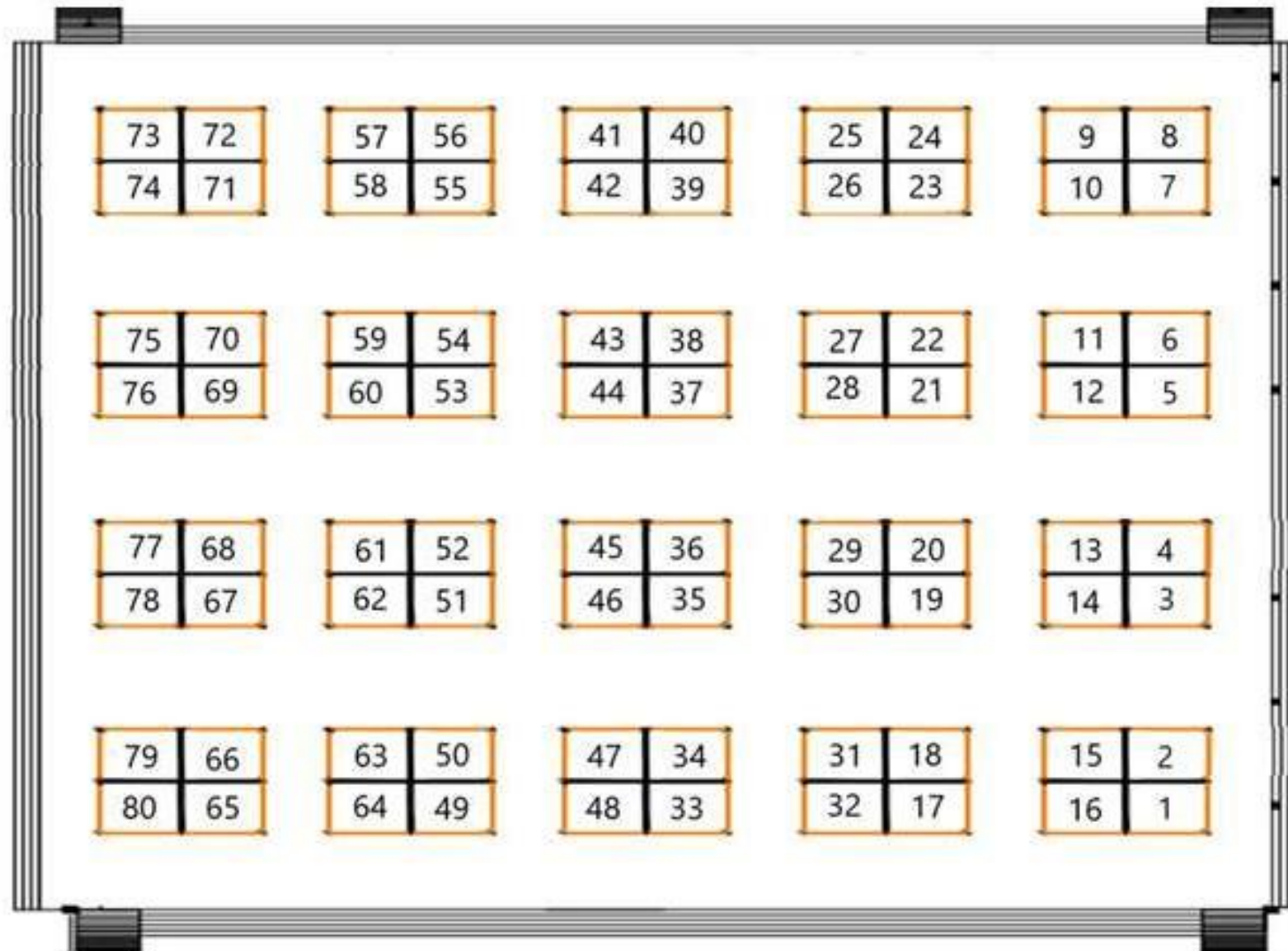
Hall
of
Justice

Municipal Hall

45	46
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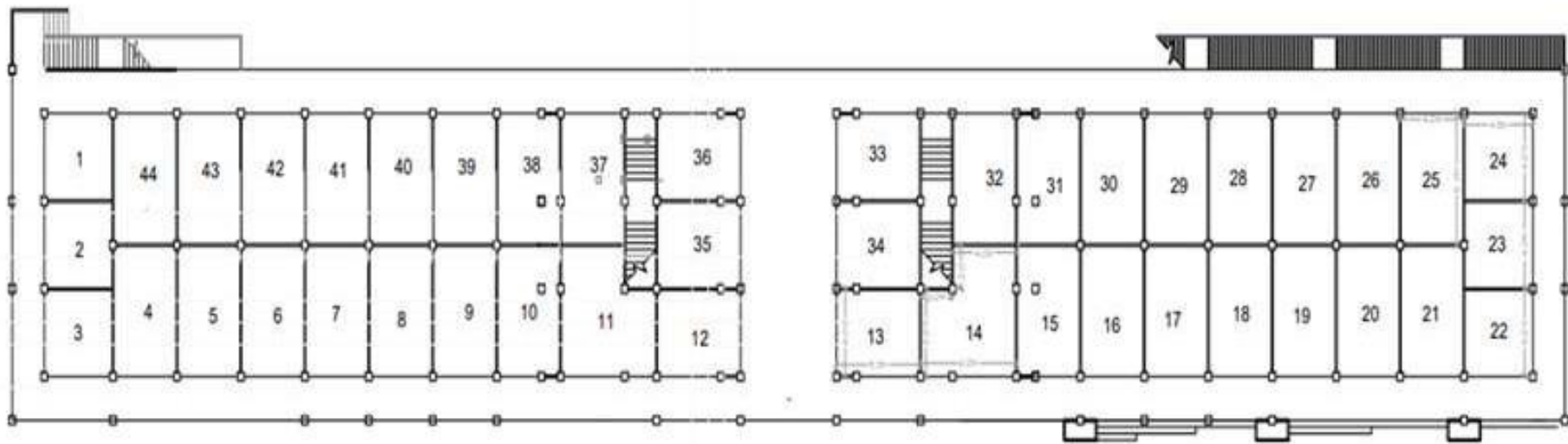
Building I



Dahlia St.



Building E



GROUND FLOOR

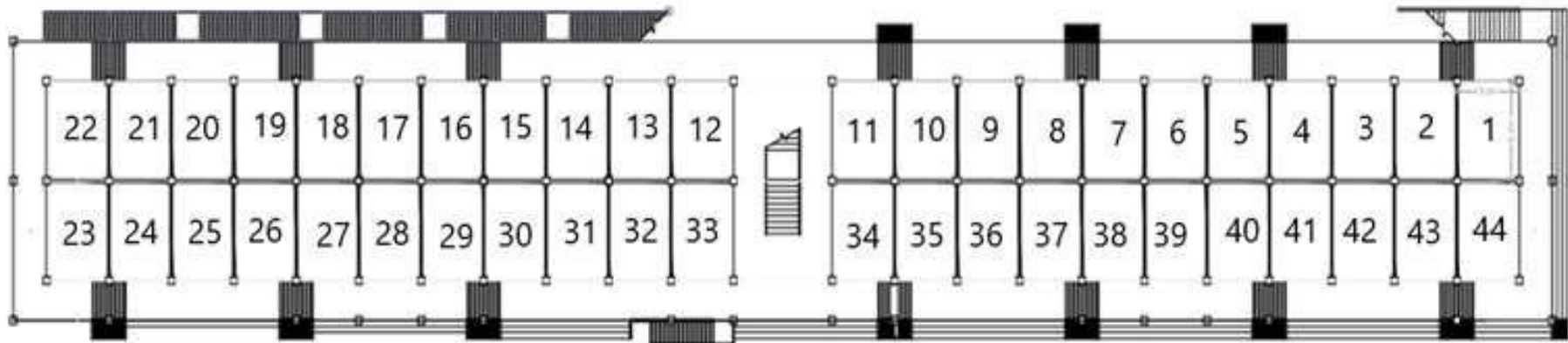
Kalayaan III



Building J



Dama de Noche St.



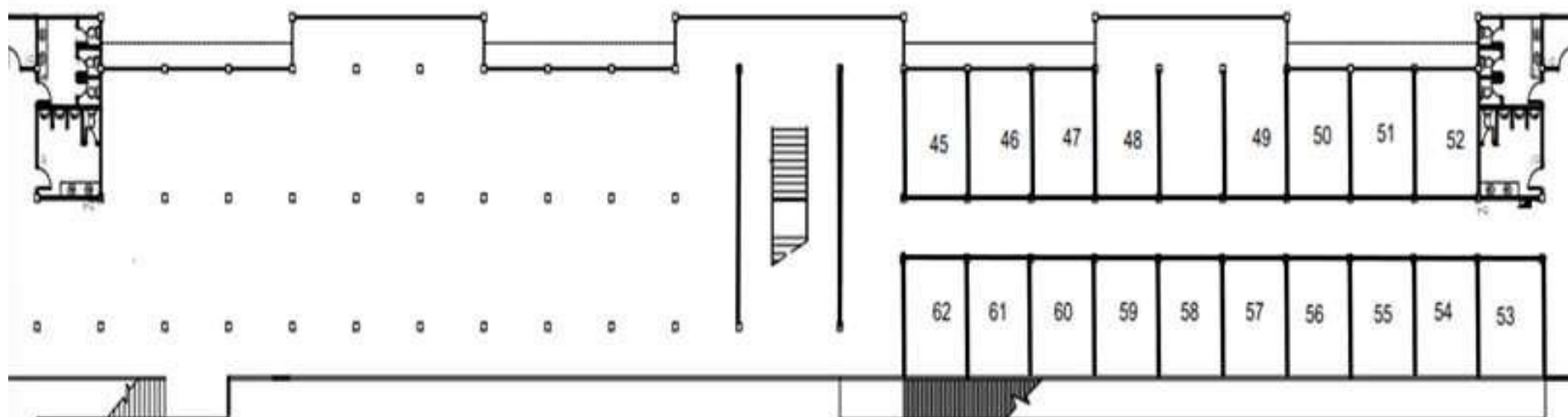
GROUND FLOOR PLAN



Building J



Dama de Noche St.



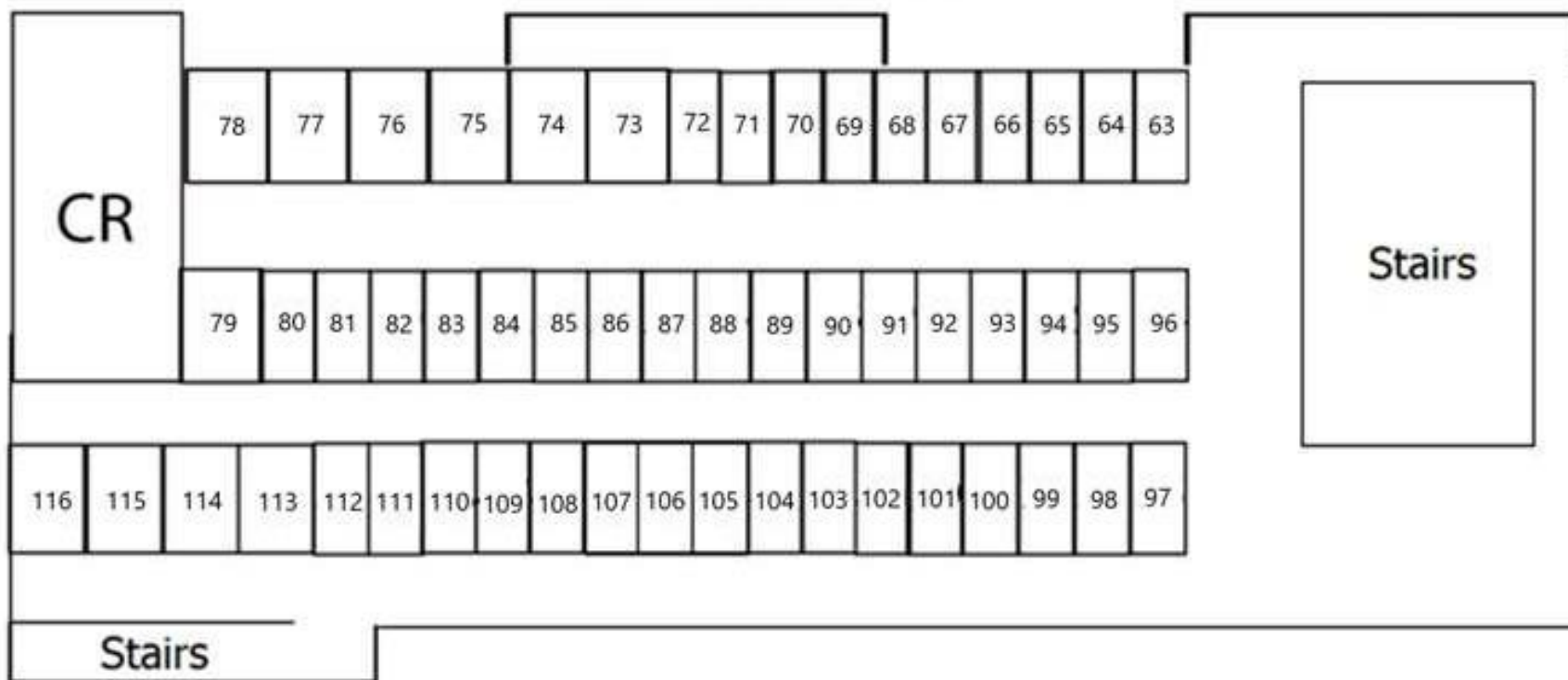
SECOND FLOOR



Building J



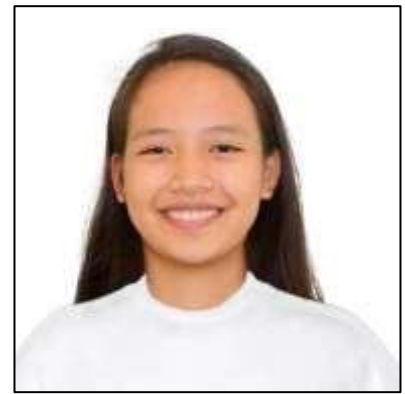
Dama de Noche St.



Second Floor

APPENDIX E. PERSONAL TECHNICAL VITAE

Curriculum Vitae of BRIAR ROSE C. CHUA



Habitat Phase B, Mabuhay, General Santos
City Briarchua99@gmail.com
09278864242

EDUCATIONAL BACKGROUND

Level	Inclusive Dates	Name of school/ Institution
Tertiary		STI College General Santos
Vocational/Technical		
High School	May 2020	Notre Dame of Kiamba INC.
Elementary	March 2014	Kiamba Central School Sped Center

PROFESSIONAL OR VOLUNTEER EXPERIENCE

Inclusive Dates	Nature of Experience/ Job Title	Name and Address of Company or Organization
	N/A	N/A

AFFILIATIONS

N/A	N/A	N/A
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SKILLS

SKILLS	Level of Competency	Date Acquired
Programming(C#,Python, Java) Languages	Basic	Januray 2022

TRAININGS, SEMINARS, OR WORKSHOPS ATTENDED

Inclusive Dates	Title of Training, Seminar, or Workshop
March 2024	IT-BPM Career Awareness Fair
2021	Online Ethical Programming Webinar

Curriculum Vitae of
MEIL SHEIDA J. PANAGUITON
DARBCI Homes, Apopong, General Santos City
meilsheidapn@gmail.com
09 38739513



EDUCATIONAL BACKGROUND

Level	Inclusive Dates	Name of school/ Institution
Tertiary		STI College General Santos
Vocational/Technical		
High School	May 2021	Holy Trinity College of General Santos City
Elementary	March 2015	Viray – Lising Elementary Schol

PROFESSIONAL OR VOLUNTEER EXPERIENCE

Inclusive Dates	Nature of Experience/ Job Title	Name and Address of Company or Organization
October 2023	Officer	Computer Society
January 2023	Officer	Computer Society
2014 – 2015	Officer	Supreme Pupil Government - VLES

AFFILIATIONS

Inclusive Dates	Name of Organization	Position
October 2023	Computer Society	Vice - President
January 2023	Computer Society	Secretary
June 2014	Supreme Pupil Government	Vice - President

SKILLS

SKILLS	Level of Competency	Date Acquired
Computer Literate	Advanced	2012
Video Editing	Intermediate	January 2017
Programming (Java, C#, and Python)	Basic	Septemeber 2021

TRAININGS, SEMINARS, OR WORKSHOPS ATTENDED

Inclusive Dates	Title of Training, Seminar, or Workshop
March 2024	IT-BPM Career Awareness Fair
November 2018	Drug Awareness Seminar
September 2016	Red Cross Youth Training

Curriculum Vitae of
REYAN JAN B. SAMONTANES

Polotana Subd., Cannery Site, Polomolok, South Cotabato
reyanjansamontanes@gmail.com
09369432011



EDUCATIONAL BACKGROUND

Level	Inclusive Dates	Name of school/ Institution
Tertiary	2021-2024	STI College-Gensan
Senior High School	2018-2020	Matutum View Baptist Academy Inc.
High School	2014-2018	Matutum View Baptist Academy Inc.
Elementary	2008-2014	UCCP Christian School of Polomolok

PROFESSIONAL OR VOLUNTEER EXPERIENCE

Inclusive Dates	Nature of Experience/ Job Title	Name and Address of Company or Organization
2020	Front Desk Assistance(Work Immersion)	Municipal Health Office
N/A	N/A	N/A

AFFILIATIONS

Inclusive Dates	Name of Organization	Position
N/A	N/A	N/A

SKILLS

SKILLS	Level of Competency	Date Acquired
Microsoft Documentation	InterMediate	month year
Visual Studio	Beginner	month year
		month year

TRAININGS, SEMINARS, OR WORKSHOPS ATTENDED

Inclusive Dates	Title of Training, Seminar, or Workshop
2018	Cafe Workshop Basic
2017	Leadership Training
month year	
month year	

Curriculum Vitae of
PRINCE JAY MOHAMMAD OMAR A. SAYRE

Purok Darussalam, Bawing, General Santos
City 9500 princejaysayre11324@gmail.com
09100117110



EDUCATIONAL BACKGROUND

Level	Inclusive Dates	Name of school/ Institution
Tertiary	May 2021	STI General Santos City
High School	August 2020	Bawing National High School
Elementary	September 2012	Bawing Elementary School

PROFESSIONAL OR VOLUNTEER EXPERIENCE

Inclusive Dates	Nature of Experience/ Job Title	Name and Address of Company or Organization
N/A	N/A	N/A

AFFILIATIONS

Inclusive Dates	Name of Organization	Position
N/A	N/A	N/A

SKILLS

SKILLS	Level of Competency	Date Acquired
Programming (C#, Python, Java) Languages	Basic	Januray 2022

TRAININGS, SEMINARS, OR WORKSHOPS ATTENDED

Inclusive Dates	Title of Training, Seminar, or Workshop
2021	Online Ethical Programming Webinar