



**UNIVERSITY OF THE PHILIPPINES
TACLOBAN COLLEGE
DIVISION OF MANAGEMENT**

BA 183.2 (UVW)
Basic Programming and Database Management
Second Semester SY 2023-2024

Term-End Project:
Documentation

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INTRODUCTION

Water, just like food, is a life essential. And you could see water refilling stations anywhere in the city for consumers. Water for Less Water Refilling Station is a Water Refilling Station business based in Tacloban City. Just like what the usual water refilling stations offer, they offer various services on their business, such as walk-in refill, via text/call order with a free delivery service if customers order their minimum amount of bottles of water to be delivered.

On that account, Group 3 of Section UVW developed a website where consumers can replenish their mineral water bottles using the Aqua Flush Refill order system, providing them with fast, convenient services, and dependable, and safe drinking water. The website includes order forms, transaction history, business information, and the organization's contact information. Hence, the Aqua Flush Refill System serves not just your normal point-of-sale system but a standard website to process inquiries and transactions online. In addition, as a part of the website's promotion, customers can get loyalty point rewards from consecutive transactions which can be used to pay if the users reach the minimum threshold for redemption through the website.

Originally, the ideation was purposely developed for the organization, but it is still an important digital resource with a variety of applications geared to inform, engage, and serve consumers successfully. Nevertheless, it makes the program a crucial part of the business process by giving the organization a simple way to record, track, and analyze their current pace; while it is a convenient way for customers to book an order form with a simple click on their digital devices.

SPECIFICATIONS

Name of local organization to serve as computer program recipient:

- **Water For Less Water Refilling Station**

Nature of business of the organization:

- **Goods and Services**

Identified business process to be complemented with a computer program:

- **Water Refilling Management System**

Proposed brand name or software product name that you want to give to the prototype:

- **Aqua Flush Refill System**

The specific business process to be automated/programmed along with the mathematical, relational, and/or logical operations involved:

- **Customer Order Management** - the system will handle customer orders for water refills, new containers, and delivery services. This involves calculating total order amounts, applying discounts, computing delivery charges based on distance, and more.
- **Sales and Billing** - The system will generate invoices or receipts for customer orders and manage payment processing. This involves calculating itemized costs, taxes, discounts, and total amounts due.

Resources Needed

1. Computers or tablets for data entry and software usage.
2. Printer for generating invoices and receipts.
3. Internet connectivity for cloud-based software and communication with customers.

BACK-END SPECIFICATIONS

UVW3's Database uvw3	
Tables & Columns	Description
<i>Credentials (table)</i>	This table stores the authentication details for users who sign up on the platform. Each user has a unique ID and associated

	credentials.
id	Unique identifier for each user (Primary Key, Auto Increment).
datetime	The chosen username of the user.
username	The user's email address.
email	The user's email address.
password	The user's password is typically stored as a hash for security.
confirmpass	The confirmation password entered during registration (not stored in the final table, used for validation during sign-up).
<i>Orders (table)</i>	This table captures the details of each order placed by customers. It includes order-specific information, customer details, and status tracking.
orderId	Unique identifier for each order (Primary Key).
orderDate	The date and time when the order was placed.
customerName	The name of the customer who placed the order.
bottles	The number of bottles ordered.
totalCost	The total cost of the order.
contactNumber	The contact number of the customer.
deliveryPreference	The preferred delivery method selected by the customer (e.g., Pickup, Delivery).
customerAddress	The address where the order needs to be delivered.
loyaltyPoints	The loyalty points earned or used by the customer for the order.
status	The current status of the order (e.g., Processing, Delivered).

SITE OVERVIEW

- *Sign up form*
 - In this webpage, users are required to create an account in order for them to proceed to the landing page.
- *Login form*
 - After creating an account, users shall be able to use their registered account to thoroughly access the website.
- *Navigation bar*
 - This feature holds the link for the main sections of the website.
- *Home page (Landing page)*
 - This will serve as the landing page; the description and objective of the Information System, and the summary of the business will be displayed here.
- *About us*
 - This section will contain all the relevant information about the software, and the team behind it.
- *Contact us*
 - In this particular section, the UP mail addresses of the team members are shown.
- *Transaction*
 - Within this component are the past transactions retrieved from the data inputted on the order form (orders tables).
- *Profile*
 - This section holds the information about the user. Data are being retrieved from the credentials table.
- *Copyright section*
 - This falls in the footer where the group declared their rights on the website and their intention to give credit to the resources used.

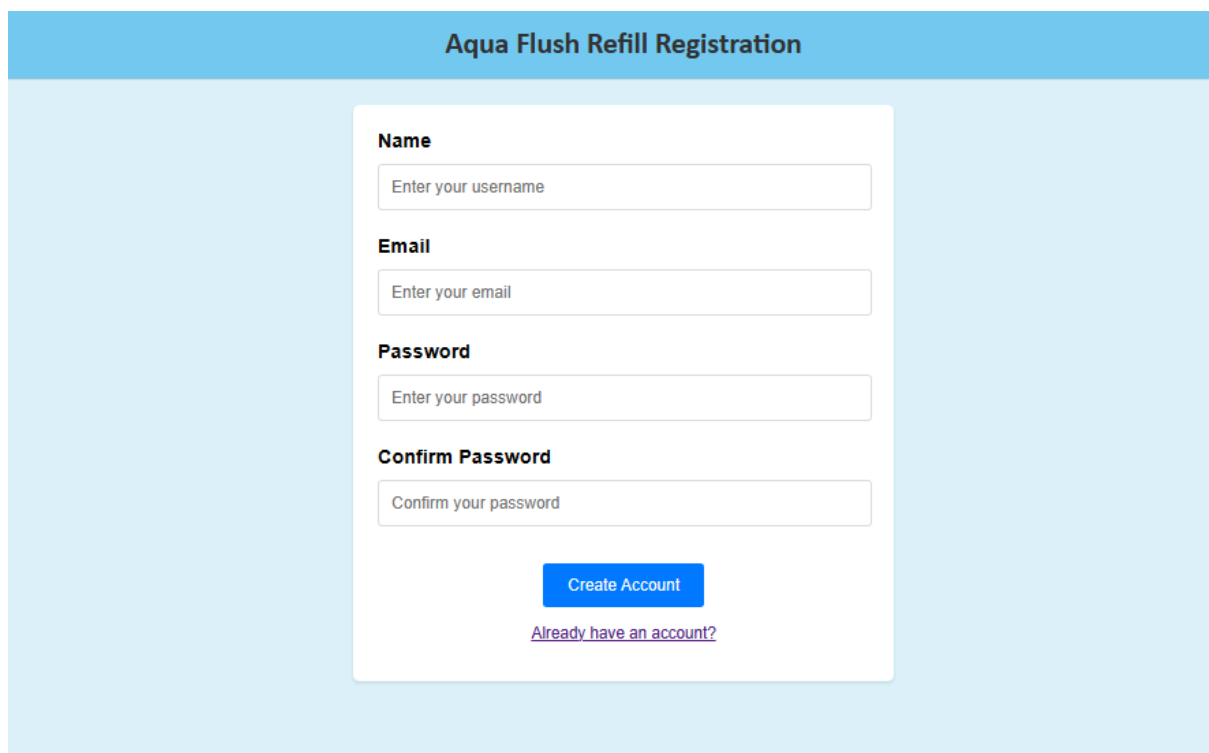
USER'S GUIDE

This manual is a step-by-step guide to effectively run/use Aqua Flush Refill System:

Step 1: Open <http://188.166.254.248/uvw3/TermEndProject/signup.php> file.

Step 2: Complete the Registration Form:

- a. **Name:** Create a unique username in the “Name” field.
- b. **Email Address:** Provide a valid email address in the "Email" field.
- c. **Password:** Create a strong password in the "Password" field.
- d. **Confirm Password:** Re-enter the same password in the "Confirm Password" field
- e. Click “**Create Account**” once the Registration Form is completed.
 - i. If you already have an account, select “**Already have an account**”.



The screenshot shows a web page titled "Aqua Flush Refill Registration". The page has a light blue background. In the center, there is a white registration form. The form contains the following fields and elements:

- Name:** A text input field with the placeholder text "Enter your username".
- Email:** A text input field with the placeholder text "Enter your email".
- Password:** A text input field with the placeholder text "Enter your password".
- Confirm Password:** A text input field with the placeholder text "Confirm your password".
- Create Account:** A blue button with white text.
- Already have an account?:** A purple link text below the "Create Account" button.

Step 3: Enter your Login Credentials:

- a. **Username:** Enter your unique username.
- b. **Password:** Input your password
- c. Select “**Login**”

Aqua Flush Refill Login

Username

Password

[Don't have an account yet?](#)

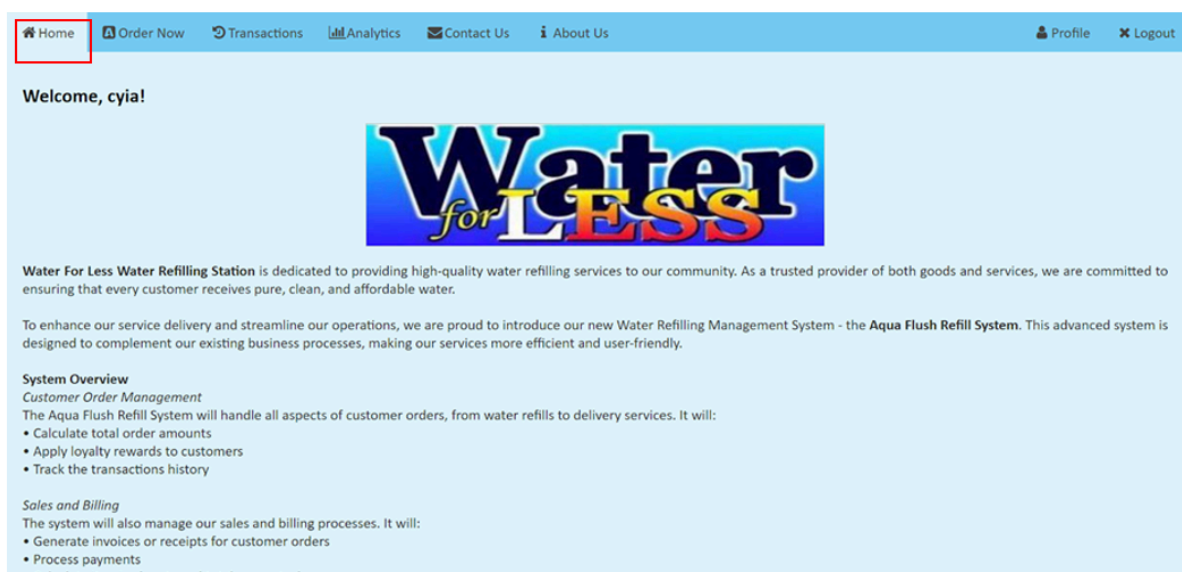
Login

Step 4: Utilize the top navigation bar to explore various sections of the website, including Home, Order Now, Transaction, Contact Us, and About Us sections.

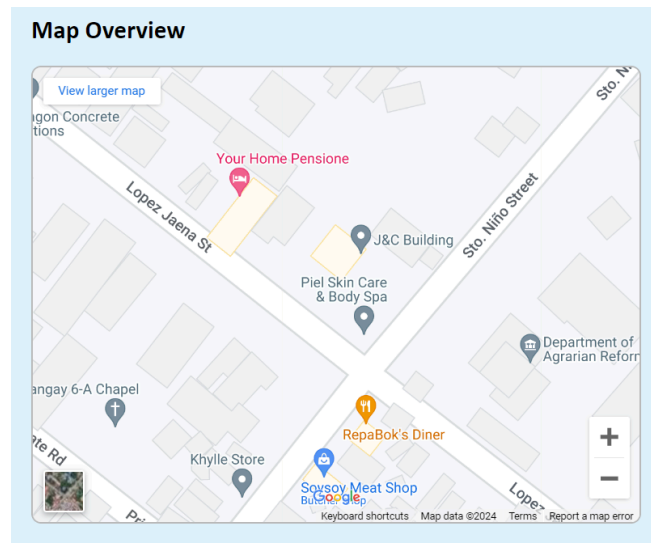


a. Home Page

- i. Select **“Home”**.
- ii. Scroll down to explore the overview of the system and the required resources.



- iii. To navigate to the map section of the website, click and hold the left mouse button on the map, then drag it in any direction to move around.



b. Order Now

- i. Click the "**Order Now**" tab in the top navigation menu to reach the order form.
- ii. Fill out the form:
 - 1. Enter your full name in the designated "**Customer Name**" field.
 - 2. Specify the desired quantity of bottles in the "**Number of Bottles**" field in the spin box. You may utilize the click arrow buttons for the quantity.
 - 3. Provide your contact number for order confirmation and communication purposes in the "**Contact Number**" field.
 - 4. Choose your preferred delivery option.
 - a. If opting for "**Standard Delivery**", provide your home address for shipping.
 - 5. Click "**Submit Order**" to view your order summary and its corresponding order total.

The screenshot shows the 'Order Now' page with a 'Water Order Form' in the center. The form includes fields for Customer Name, Number of Bottles, Contact Number, and a Delivery Preference dropdown menu set to 'Self-Pickup'. A 'Submit Order' button is at the bottom. The top navigation bar has 'Order Now' highlighted. The footer contains copyright information for 2024 UVW3.

Water Order Form

Customer Name

Number of Bottles

Contact Number

Delivery Preference
 Self-Pickup

[Submit Order](#)

©2024 UVW3. All rights reserved.
 Aqua Flush Refill System is the educational project of Group 3 section UVW.
 All other trademarks and media used on this site are the property of their respective owners.
 Philippine Standard Time: 5/18/2024, 8:21:20 PM

c. Transaction

- Click the **"Transactions"** tab in the top navigation menu to access the transaction history.
- Enter the customer's name in the search bar to find specific transactions related to that customer.

The screenshot shows the 'Transactions' page with a search bar and a table of transactions. The 'Transactions' tab is highlighted in the top navigation bar. The table lists 10 transactions with columns for Order ID, Customer Name, Bottles, Total Cost, Contact Number, Delivery Preference, Customer Address, Loyalty Points, Status, and Order Date.

Order ID	Customer Name	Bottles	Total Cost	Contact Number	Delivery Preference	Customer Address	Loyalty Points	Status	Order Date
AR-0002	Harley Verunque	17	₱510.00	09666521368	Pickup		5	Processing	2024-05-17 17:50:22
AR-0003	Harley Verunque	5	₱150.00	09666521368	Standard Delivery	Union, Caibiran, Biliran	1	Processing	2024-05-17 17:55:18
AR-0004	Lee	13	₱390.00	NA	Standard Delivery	Men's Dorm	3	Processing	2024-05-17 18:00:22
AR-0189	Vicente M.	15	₱375.00	09958647889	Pickup		3	Processing	2024-05-18 11:39:55
AR-0287	MARK NOEL	20	₱600.00	8889-669	Standard Delivery	Men's Dormitory, UP Tacloban	6	Processing	2024-05-18 07:29:26
AR-0474	cyla	2	₱50.00	09603125992	Pickup		0	Processing	2024-05-18 12:10:07
AR-1117	Deydey	15	₱450.00	09610180231	Standard Delivery	Seoul, Southern Leyte	4	Processing	2024-05-18 07:39:26
AR-2080	cyla	30	₱900.00	09603125992	Standard Delivery	kassel city	9	Processing	2024-05-18 17:10:28

d. Analytics

- Click the **"Analytics"** tab in the top navigation menu to view the business analytics.
- Once on the analytics page, scroll down to find the section displaying statistics.

Home	Order Now	Transactions	Analytics	Contact Us	About Us	Profile	Logout
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Analytics		
Date	Number of Customers	Daily Sales (P)
2024-05-17	3	1050.00
2024-05-18	8	3710.00

Total Sales: ₱4,760.00

e. Contact Us

- Click on the "**Contact Us**" tab in the top navigation menu to reach the contact page.

Home	Order Now	Transactions	Analytics	Contact Us	About Us	Profile	Logout
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Get in touch

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f. About Us

- Click on the "**About Us**" tab in the top navigation menu to access our story and mission.

Home	Order Now	Transactions	Analytics	Contact Us	About Us	Profile	Logout
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About the Website

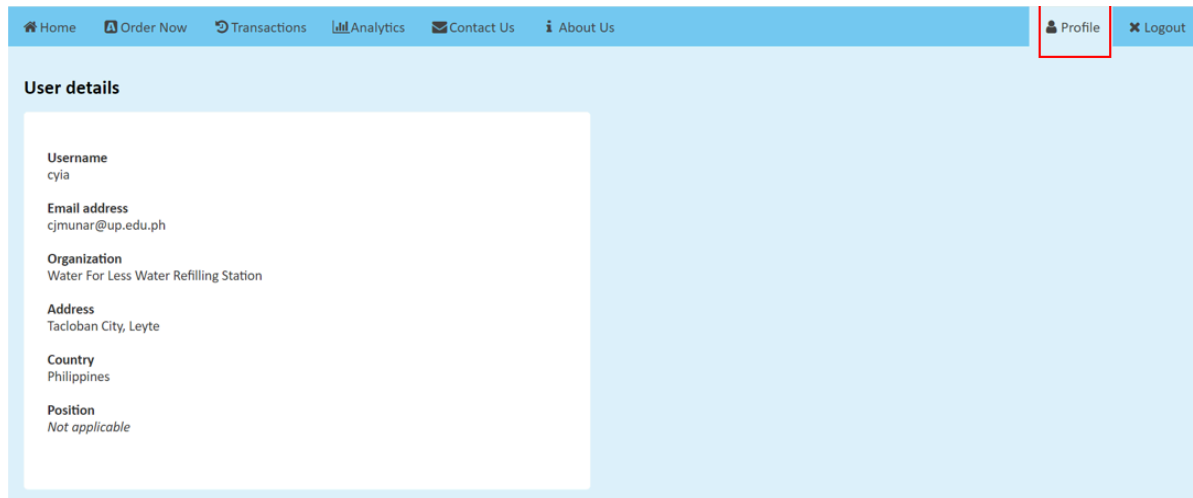


Water For Less Water Refilling Station is dedicated to providing high-quality water refilling services to our community. As a trusted provider of essential goods and services, we continually seek ways to enhance our operations and improve customer satisfaction. To achieve this, we have developed the **Aqua Flush Refill System**, a state-of-the-art Water Refilling Management System designed to streamline business processes.

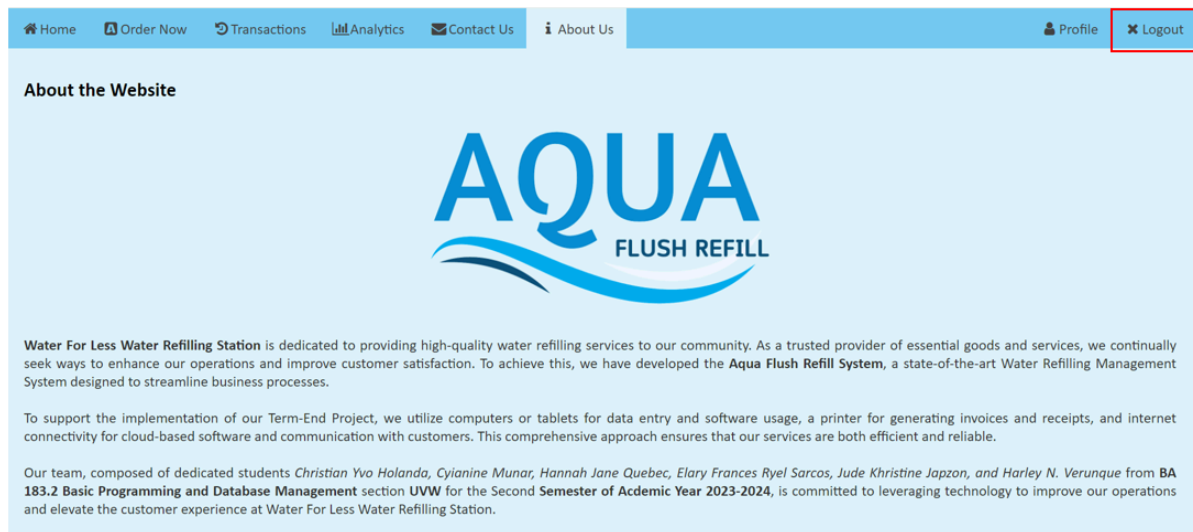
To support the implementation of our Term-End Project, we utilize computers or tablets for data entry and software usage, a printer for generating invoices and receipts, and internet connectivity for cloud-based software and communication with customers. This comprehensive approach ensures that our services are both efficient and reliable.

Our team, composed of dedicated students *Christian Yvo Holanda, Cyianine Munar, Hannah Jane Quebec, Elary Frances Ryel Sarcos, Jude Khristine Japzon, and Harley N. Verunque* from **BA 183.2 Basic Programming and Database Management** section **UVW** for the **Second Semester of Academic Year 2023-2024**, is committed to leveraging technology to improve our operations and elevate the customer experience at Water For Less Water Refilling Station.

Step 5: Access your profile by clicking "**Profile**" in the top navigation menu to open your profile page.



Step 6: Besides the Profile tab, select “**Log Out**” to log out from your account

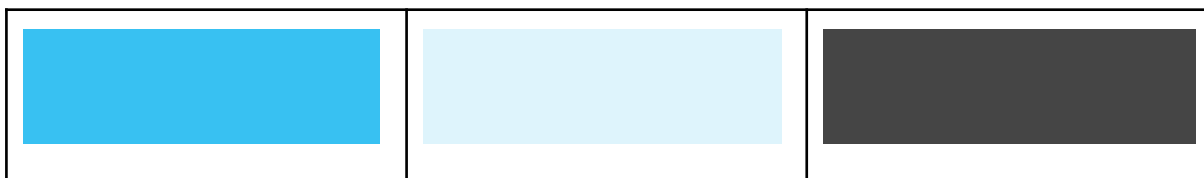


USER INTERFACE

Color Palette

Blue, in its various shades, is associated with water, tranquility, and trustworthiness. For a water refilling system, these associations are relevant. Water is an essential resource, and a service that provides it needs to convey trust and dependability. The calming effect of the color blue can help to reassure users that the service of Aqua Flush Refill is reliable and that the water provided is pure and safe. Additionally, light blue, often linked with clarity and freshness, further enhances this perception. It can make the interface look clean and user-friendly, which is important for a service focused on health and hydration. By using these two colors, the website can create an inviting and refreshing atmosphere that encourages users to engage with the service offered.

Gray is associated with neutrality, balance, and formality. These associations are beneficial for the copyright section, which serves a formal and informational purpose. The color gray conveys a sense of seriousness and authority without being overwhelming or intrusive, reinforcing that the Aqua Flush Refill website is trustworthy and properly managed. It reassures users that the information provided in the copyright section is accurate and trustworthy.



Fonts

Calibri and Arial are the fonts used in the website of Aqua Flush Refill because of their readability. Both fonts convey a modern and professional aesthetic that aligns with the values of a water refilling service. These fonts help communicate that the system is up-to-date and the service it offers is trustworthy. Both Calibri and Arial fonts help convey the important message of purity, efficiency, and dependability.

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