Loyalty Points Democratized

Group 6

Jieying Yang 300103978

Zeyad Abu-El-Quran 300167089

KC Ezirim 300194524

Sean Vedachellam 300185873

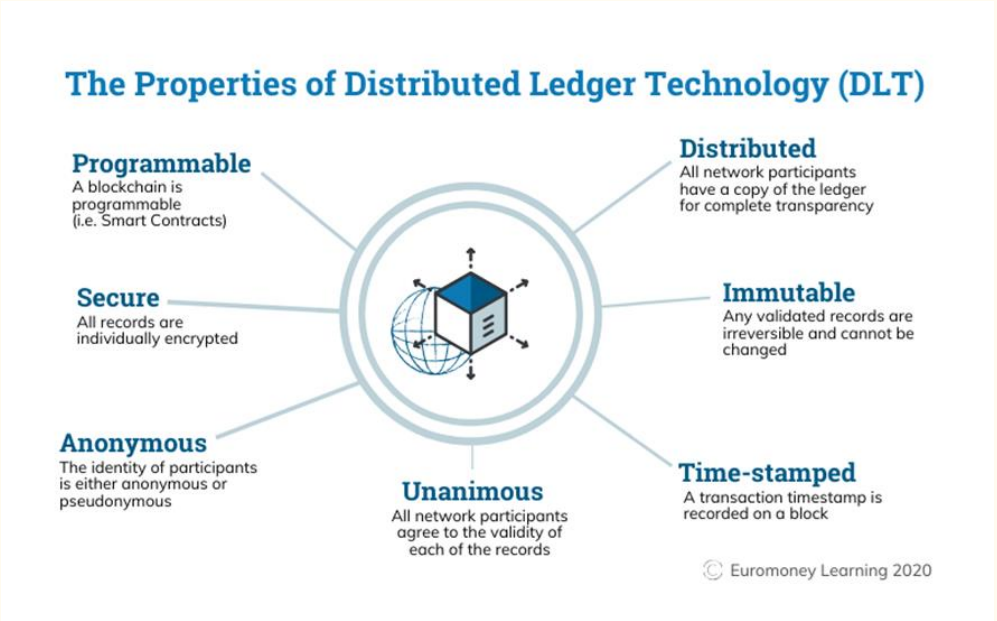
Problem Statement

- The customer needs a better & more efficient way to use the loyalty points.
- The customer needs safety.
- The platform needs to deliver a frictionless experience to consumers.
- The customer needs more choices as to how they use their loyalty points

The basic idea based on the interpreted needs:

So, we need to develop a loyalty program that involves a secure and safe system that can democratize points and allow consumers to be more flexible with how they use their points.

Solution Options and Chosen Concept



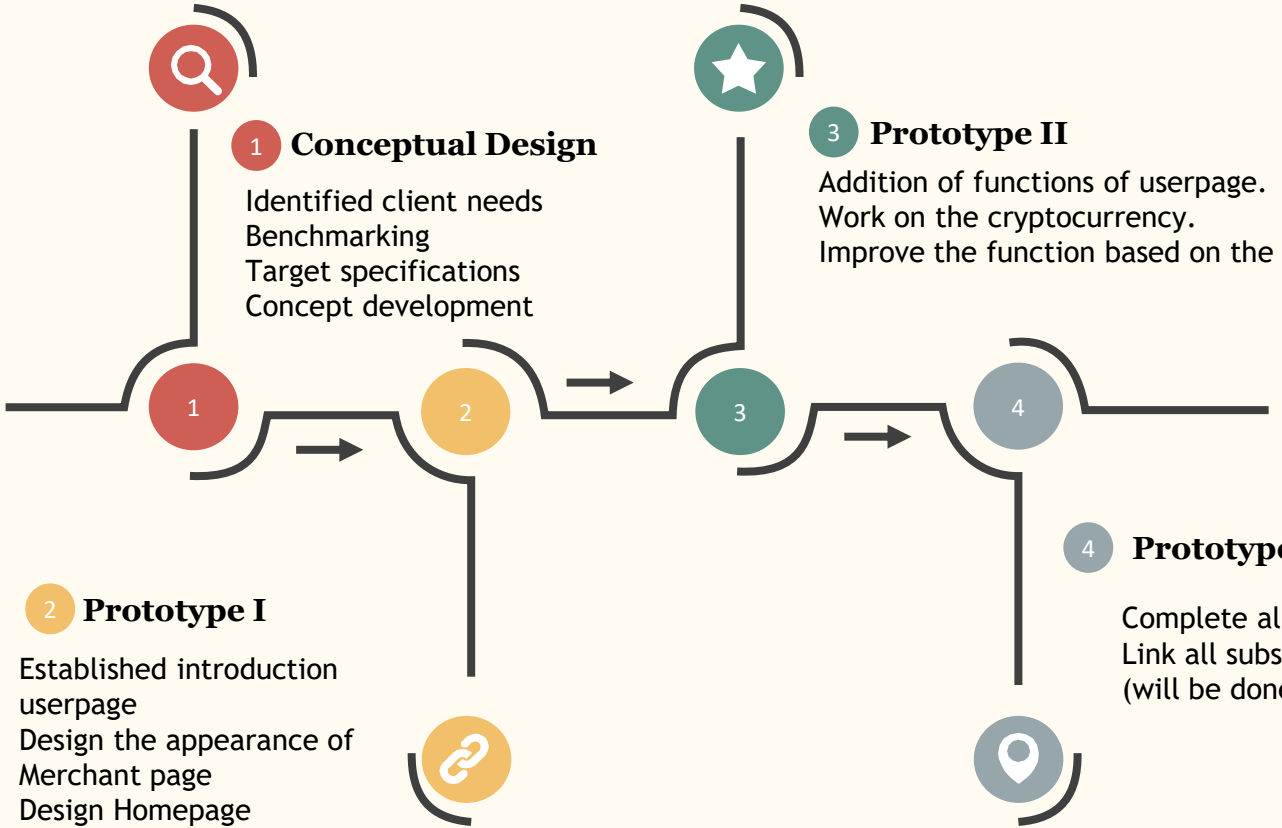
Does this concept really solve our needs?

- The customer needs a better way to use the points. A more efficient way.
- The customer needs safety.
- The platform needs to deliver a frictionless experience to consumers.
- The customer needs more choices as to how they use their loyalty points

Is this a hypothetical solution to the problem statement?:

A loyalty program needs to involve a secure and safe system that can democratize points and allow consumers to be more flexible with how they use their points.

Design Process



1 Conceptual Design

Identified client needs
Benchmarking
Target specifications
Concept development

2 Prototype I

Established introduction userpage
Design the appearance of Merchant page
Design Homepage

3 Prototype II

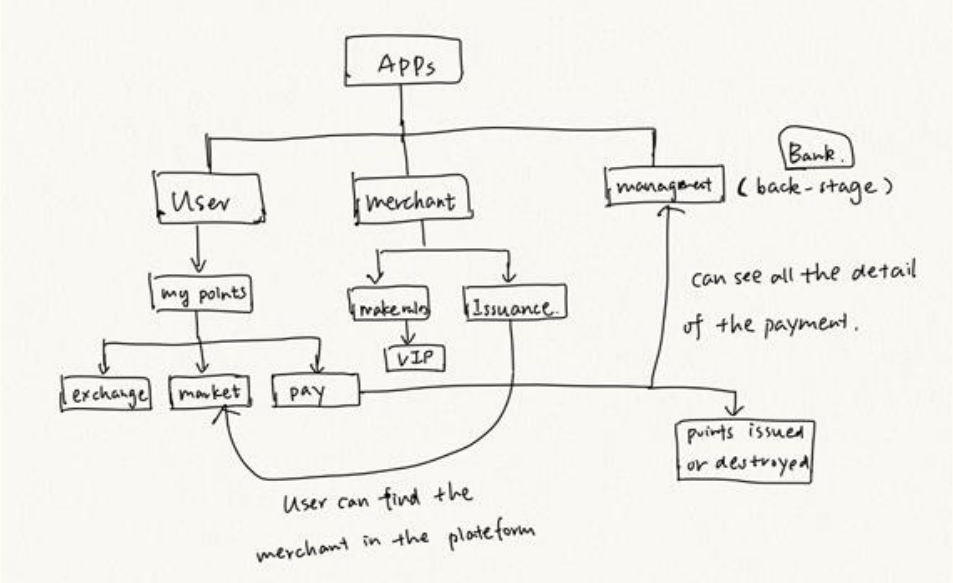
Addition of functions of userpage.
Work on the cryptocurrency.
Improve the function based on the feedback

4 Prototype III

Complete all subsystems
Link all subsystems together
(will be done in few days)

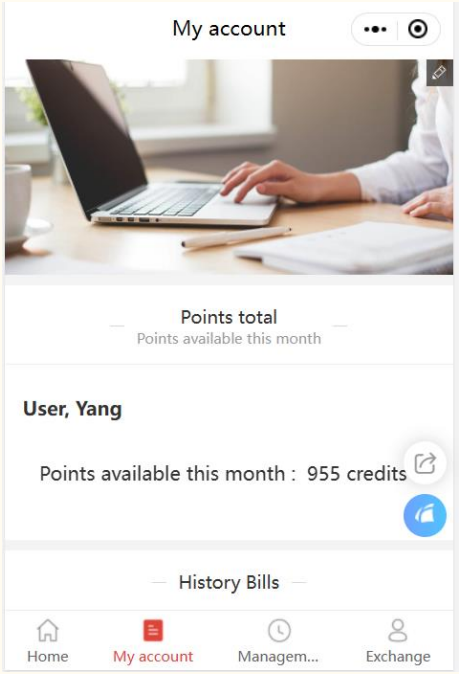
Conceptual Design

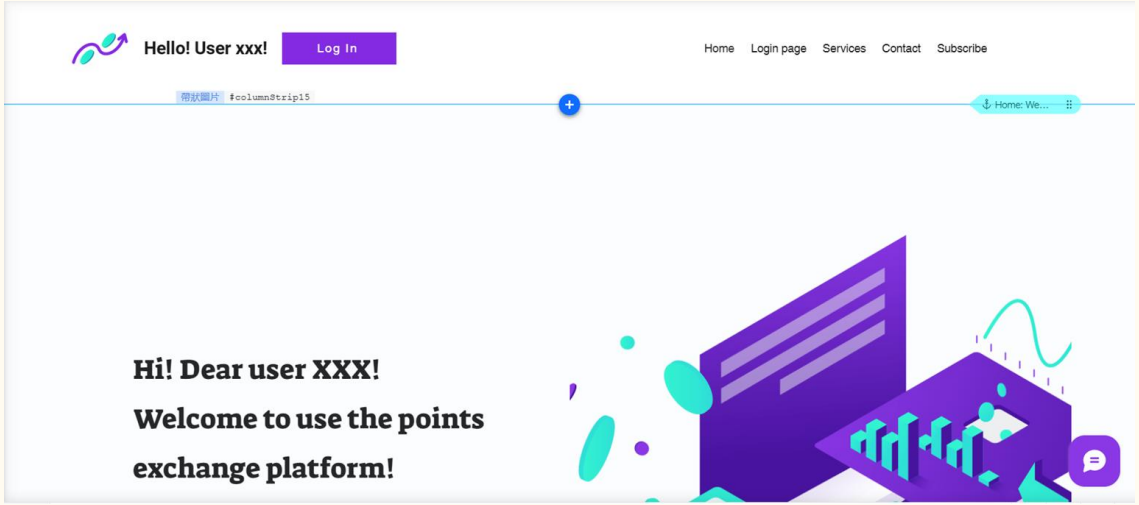
- Technical Benchmarking
- Concept Development
  - Use of subsystems

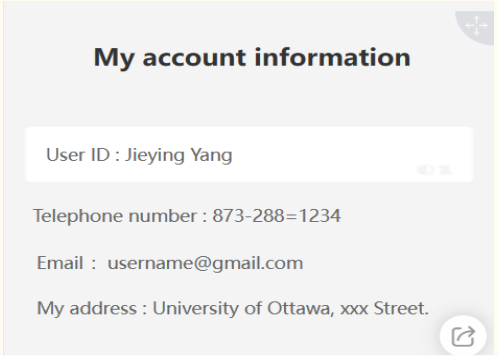


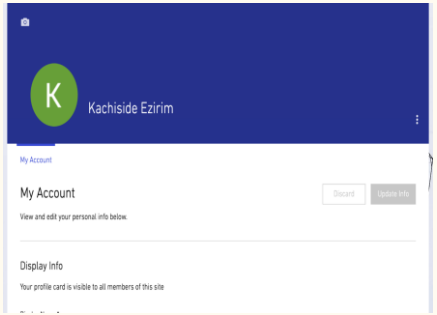
Prototype 1

User Experience



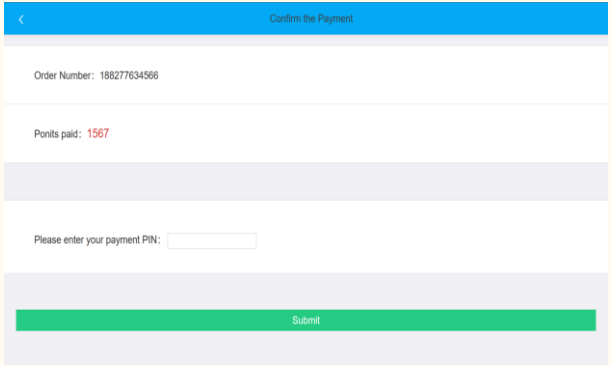


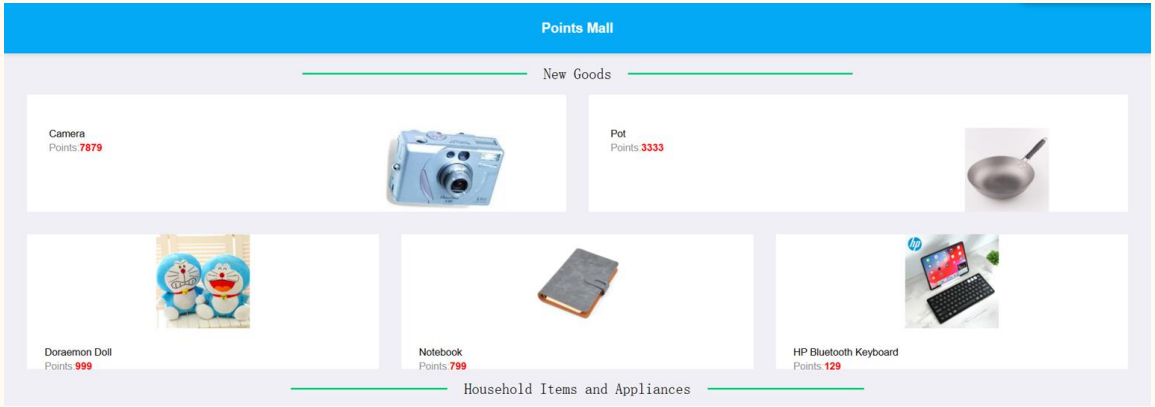


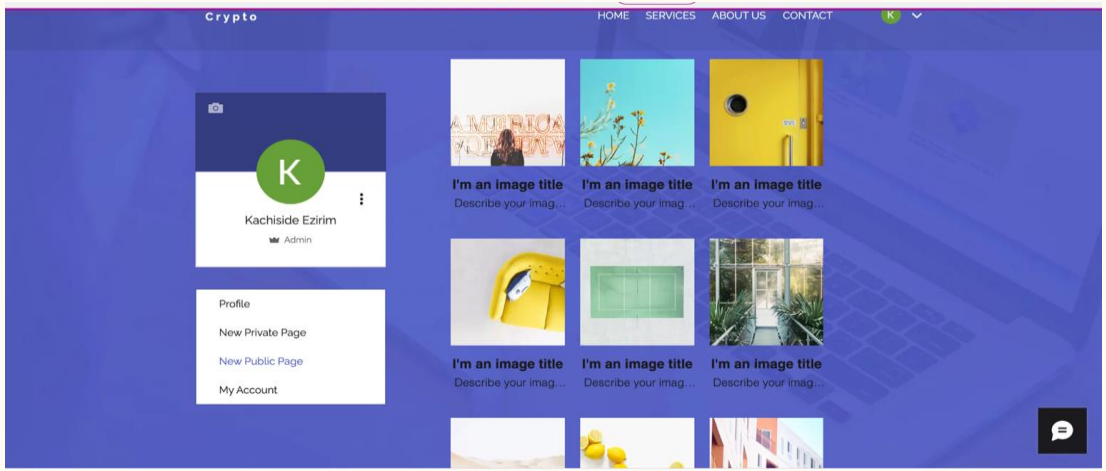


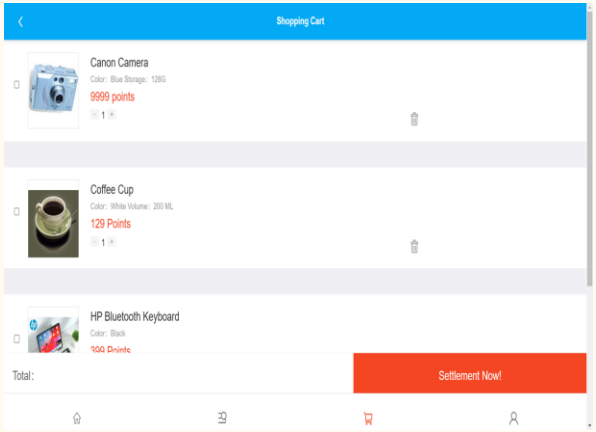
Prototype 2

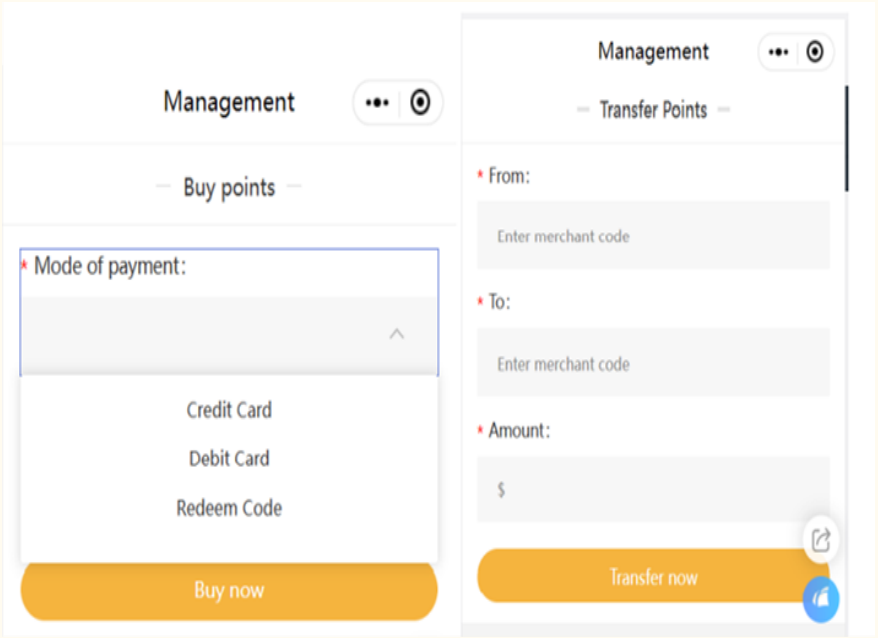
```
// ----------------------------------------------------------------------
// ERC Token Standard #20 Interface
// https://github.com/ethereum/EIPs/blob/master/EIPS/eip-20-token-standard.md
// ----------------------------------------------------------------------
contract ERC20Interface {
    function totalSupply() public constant returns (uint);
    function balanceOf(address tokenOwner) public constant returns (uint balance);
    function allowance(address tokenOwner, address spender) public constant returns (uint remaining);
    function transfer(address to, uint tokens) public returns (bool success);
    function approve(address spender, uint tokens) public returns (bool success);
    function transferFrom(address from, address to, uint tokens) public returns (bool success);

    event Transfer(address indexed from, address indexed to, uint tokens);
    event Approval(address indexed tokenOwner, address indexed spender, uint tokens);
}
```

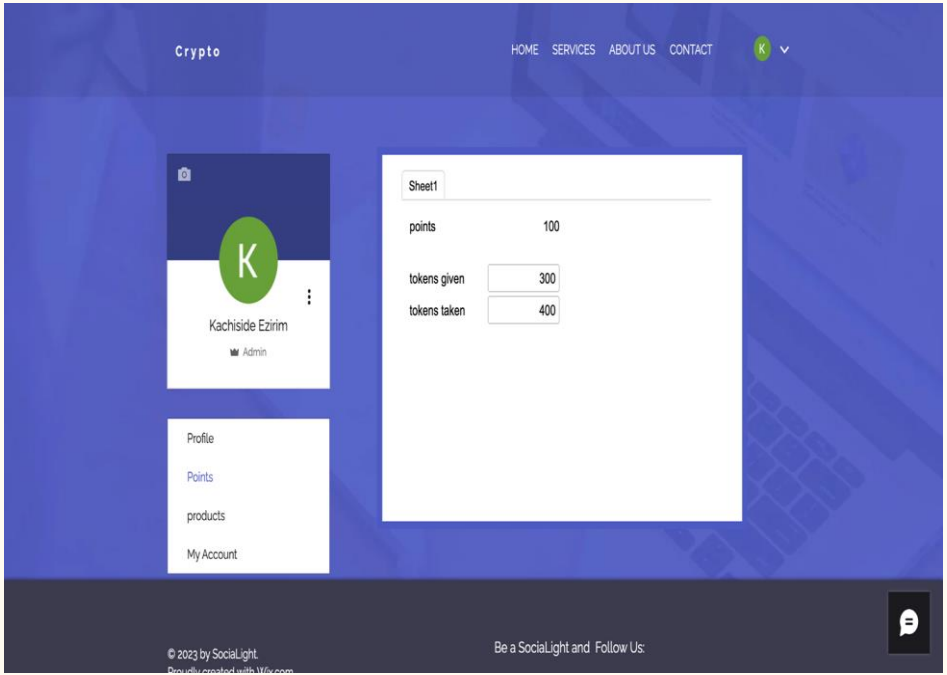

Confirm the Payment
Order Number: 188277634566
Ponits paid: 1567
Please enter your payment PIN:
Submit


Points Mall
New Goods
Camera
Points:7879
Pot
Points:3333
Doraemon Doll
Points:999
Notebook
Points:799
HP Bluetooth Keyboard
Points:129
Household Items and Appliances


Crypto
HOME
SERVICES
ABOUT US
CONTACT
K
Kachiside Ezirim
Admin
Profile
New Private Page
New Public Page
My Account
I'm an image title
Describe your imag...


Shopping Cart
Canon Camera
9999 points
Coffee Cup
129 Points
HP Bluetooth Keyboard
Total:
Settlement Now!

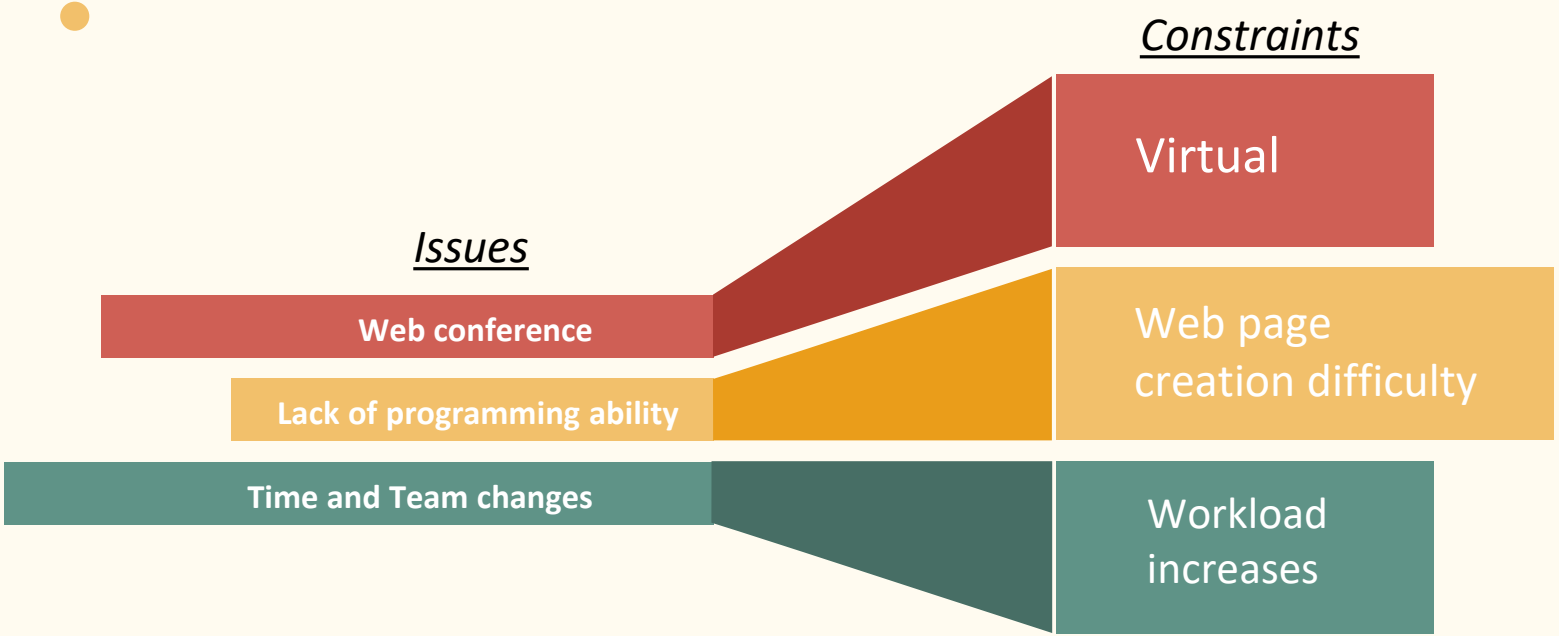

Management
Buy points
* Mode of payment:
Credit Card
Debit Card
Redeem Code
Buy now
Management
Transfer Points
* From:
Enter merchant code
* To:
Enter merchant code
* Amount:
$
Transfer now


Crypto
HOME
SERVICES
ABOUT US
CONTACT
K
Kachiside Ezirim
Admin
Profile
Points
products
My Account
Sheet1
points
100
tokens given
300
tokens taken
400
© 2023 by SociaLight.
Be a SociaLight and Follow Us:

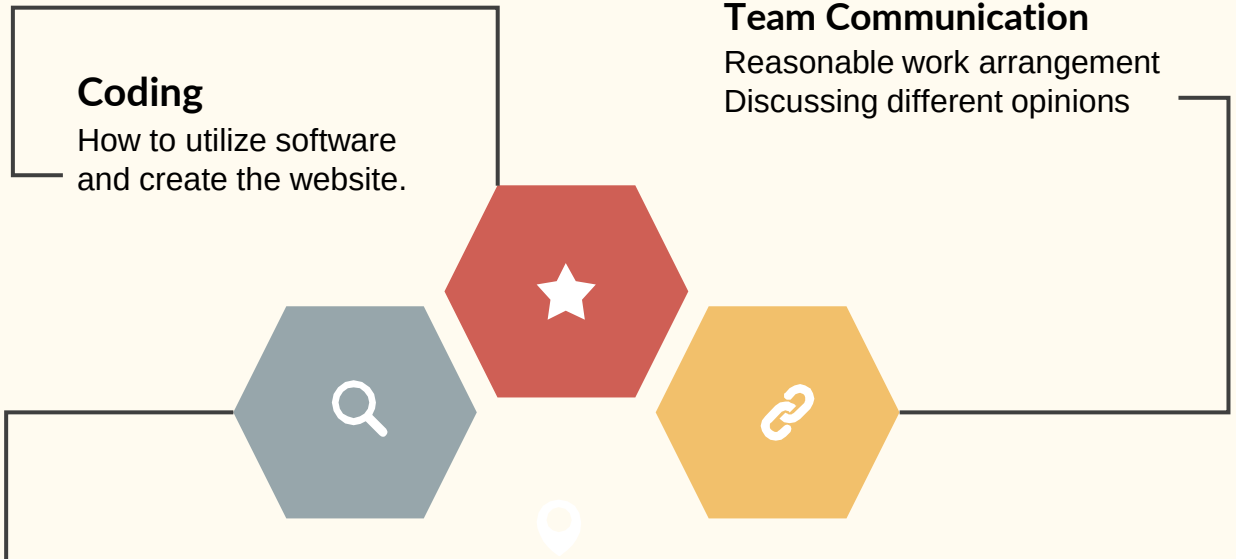
Project management

- Using Wrike to evenly distribute tasks and to set reminders to complete tasks on time
- Weekly Meetings
- Communicating multiple times a week using different applications (Whatsapp, Email, Discord)
- Work together on problems and make big decisions together

Constraints and Issues



Lessons Learned

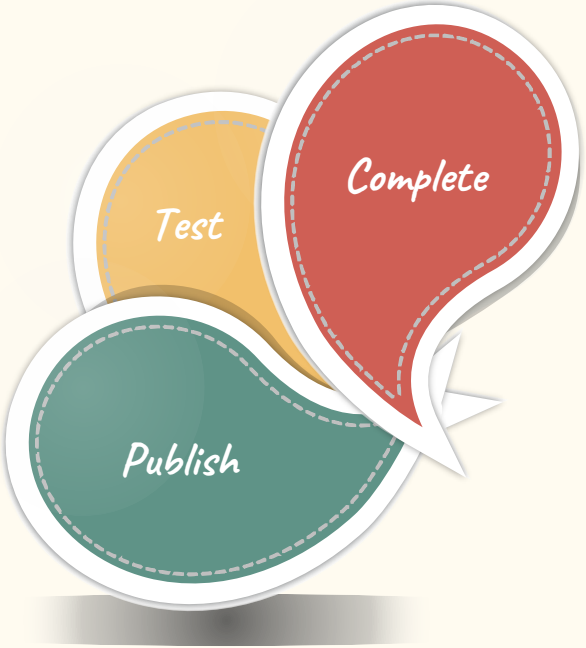


Coding
How to utilize software
and create the website.

Team Communication
Reasonable work arrangement
Discussing different opinions

Design Process and Wrike
Project planning
Stay organized

Future Works



Complete the final product

The user successfully purchases and uses tokens and gets reward points.

Publish website

Conclusion

- Our Goal
  - Create a rewards program that involves a safe and secure system that can democratize points
  - Allow consumers to be more flexible with how they use their points and use them to buy discounted or items
  - Build a cryptocurrency that can be given out as tokens for the consumer to spend

THANK YOU !