Initial Sprint Project Planning

CSCE 431 - Bencoolen Software

Team Members & Roles

Tyler Fredericksen - Product Owner
Keegan Reynolds - Scrum Master
Kelvin Zheng - Developer
Simone Kang - Developer
Bryan Yan - Developer
Nick Ludwig - Developer
Kaijie Chen - Developer

Scheduled Customer Meeting Time

Thursdays, 8 am - Singapore time (GMT + 8) (Google Meets)

Meeting Summary

We met with Mr. Asher & Dr. Kebo over Google Meets at 8am on Saturday Jan. 6th. The meeting was a kickoff for our project this semester, where we did introductions and then jumped into what the project was going to be about on a broad scale (a platform for students to give away excess meal credits in order to help those in need and prevent waste). We then jumped into a longer list of questions we had prepared for the customer to better understand and clarify what exact it was they're looking for. You can find the whole list & responses here

Project Summary

Food insecurity is a massive but often overlooked problem within college campuses. It tends to be more of an invisible issue due to many factors like social stigma and embarrassment, which only serves to amplify the suffering of those in need. In parallel, many universities have large meal plan packages composed of "swipes" which expire at the end of every semester. More often than not, students will not use all of their meal swipes before the end of the semester, leading to a wasteful outcome. Bytes is looking to step up to help tackle both of these issues at once by creating a platform where students will be able to donate excess meal swipes to those in need.

Bytes will be a peer-to-peer platform allowing students to create accounts to offer up excess and soon-to-expire meal credits. Students in need will be able to anonymously receive aid without the fear of any costs or social stigma. As such, the main stakeholders in this case are students in need, students looking to help, and the universities we'll be partnering with.

Sprint Goal

The goal of Sprint 1 is to have a deployable proof of concept with basic features like profile creation, credit requesting, and credit transfer all with a CI/CD pipeline in Github. This work will provide a solid foundation for us to build on top of going forward. We will divide up user stories into smaller subtasks, prioritize tasks that are foundational, and assign developers to each story to be worked on.

User Stories

Landing Page (1pt)

As ***a visitor of the website****,*
in order to ***learn about the website and sign-in***,
I want ***a landing page that gives me information about the website, vision of the project, and how to join***

See Excess Credit Amount (2pts)

As a ***student with excess meal credits***,
in order to ***quickly see how many swipes I have to donate***,
I want a ***visible counter of credits I will have in excess***.

See Credit Donations (2pts)

As a ***donor student with excess credits,***
in order to ***know if my credits have been received and used,***
I want a ***page to look at data about my credit donations.***

Login page (3pts)

As a ***student****,*
in order to ***get access to my account****,*
I want ***the ability to sign into Bytes using my verified school email address***

Logout page/button (2pts)

As either **a donor or recipient user**,
So that I can **protect my information and prevent misuse of my credits**,
I want to be able to **log out of the service**.

Create Student Account (2pts)

As a ***student user***,
In order to ***access the features of the website***,
I want ***a way to create an account, and connect it with my meal plan***.

Transfer Credits (3pts)

As a ***student with excess credits***,
So that I can ***feed hungry students***,
I want to ***transfer some of my credits to another student***.

See Available Credits (2pts)

*As **a recipient of meal credits**,*
*So that I **know how many credits are available to me**,*
*I want to see **how many credits I can receive and/or the total number of credits available.***

Receive Credits (2pts)

As a **student in need of credits,**
So **that I can get aid in getting food**
I want **a way to request credits**

Sprint Backlog

The Sprint Backlog consists of the stories above. Completing these stories will give us the basic functionality we discussed in our sprint goal of profile creation, credit requesting, and credit transfer. In total, the sprint backlog has 17 credits. Below you can find the breakdown of each story.

Task Breakdown

Landing Page (Tyler) ~2hrs

- Create Route for landing page
- Create a Controller (?) for landing page
- Create HTML/CSS for the landing page
    - Navigation to login page, etc
- Protected route for only people who are not logged in

Login Page (Bryan) ~3hrs

- Create a route for the login page
- Create a controller for the login page
- Create HTML/CSS for the login page
    - Denote donor account of recipient account
- Allow users to log in with OAuth
    - Strictly only using their school email address

Logout Button (Bryan) ~1hr if coordinating with loginpage

- Create a button for the logout feature
- Create a controller for the logout button
- Create HTML/CSS for logout button
- Should route to home page of site with no user logged in

Student Account Creation (Kaijie) ~3hrs

- Upon successful login with OAuth:
    - Search database for them (uin)
        - If they don't exist, make them an account
        - If they do exist, fetch their information
    - Access the number of meal credits student has
    - Redirect to a profile page (protected route)
    - Populate information

See Excess Credit Amount (Simone) ~2hrs

- Upon profile being populated
    - Create a field in profile page
    - Populate that field with the number of excess credits the student has
        - Show expiration date (?)
- HTML/CSS to show this (perhaps another page so, route, controller etc)

See Credit Donations (Nick) ~2hrs

- Create / Maintain a list of donation objects in profile data
    - Every time a user uses these credits, update this persons “donations”
- Create route for donation history page
- Create controller for donation history page
- HTML/CSS for page
- Populate donation history with this list

Transfer Credits (Keegan) ~5hrs

- Create a route for credit transfer
- Create controller & model functions for logic
- Create HTML/CSS for page where users can define information about the credits they want to give
- Once submitted, do updates on their number of credits
    - (per customer, once credits are donated that’s final)
- Define the logic that goes into pooling credits together.

- Remember we're tracking credits in a history, so we need to keep track of this, even if they're pooled! (this is probably going to be hard, and maybe not the best way either)
- Maybe a CreditDonation object? Id, uin, date_given. All up to you we just need to track. In receive credits we can do logic that splits up the poo

See Available Credits (Kaijie) ~2hrs

- Create view for displaying total credits available and/or max that the user can withdraw
- Create controller for updating the number
- Create HTML/CSS for the display
- Should be updated as users donate credits and as users withdraw/receive them.

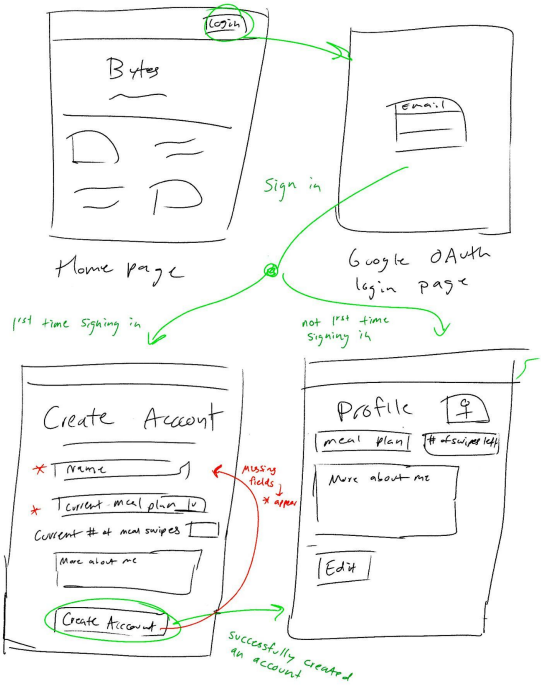
Receive Credits (Kelvin) ~5hrs

- Create route for credit receiving
- Create controller & model functions for logic
- Create HTML/CSS for page where users can define information about the credits they want to receive
- Once submitted, do logic that gets from the credit pool database, deletes, and adds to recipient account
- *Work closely with the transfer credits person and get on the same page with how things should work*

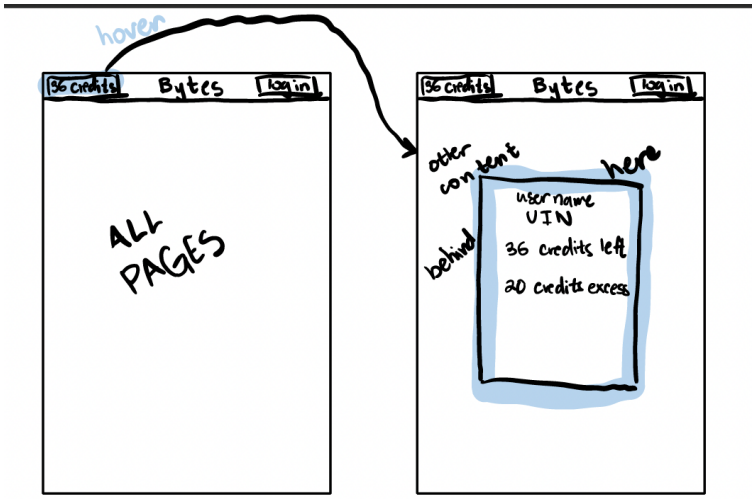
User Interface Mockups

Landing Page

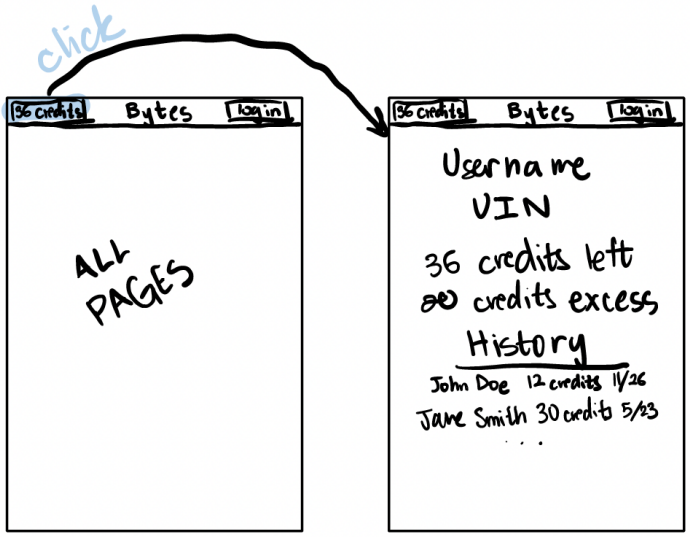
Login and Create Account



See Excess Credits



See Credit Donations



Important Links

Slack link

Github Repo

Pivotal Tracker