

CS461: Fall Term Retrospective

Section #1: Overview of Project Goals and Outcomes

The goal of this project is to create a transactional framework that allows content creators to monetize their content using a pay-per-view revenue model and allows users to pay small fees to view individual pieces of content. The project will deliver a prototype transactional framework that is executed and maintained by a Backend Component, a Site Integration Component, and a Customer Web Client. Additionally we will deliver a website that provides information on the product for potential clients and customers. The Site Integration Component will be incorporated into the existing codebase of businesses and content creators. The Customer Web Client will be downloaded and used by customers to communicate with businesses that have incorporated our Site Integration Component. The Backend Component will communicate with Customer Web Client and Site Integration Component to enforce the transactional framework we develop

Section #2: Current Status of the Project

For sprint 1, we mainly had goals for designing our product's website, as well as blockchain research. Specific goals, as well as their current status, for the website are:

Goal	% Complete	Current Status	Still needs to be done
Home Page	100%	Home page has functionality and styling.	-
Team Page	95%	Team page has information and pictures for most team members.	Need a few more team member pictures, and 1 more bio.
User Page	80%	The user page has a specific design and flow, with placeholder text and images.	Need to replace filler text and placeholder images with real information.
Creator Page	80%	The creator page has the same design as the user and investor page, with placeholder text and images.	Need to replace filler text and placeholder images with real information.
Investor Page	80%	The investor page has the same design as the user and creator page, with placeholder text and images.	Need to replace filler text and placeholder images with real information.
Website Header	100%	The website header has links to 'Contact Us', and 'Meet the Team', as well as has 'Zephyr' link back to the home page.	-
Website Footer	98%	Has our slogan, and a temporary email shown.	Need a real email address to be displayed.
Email Collection	100%	Users can submit their emails to us, to be stored in a database.	-

For blockchain research, each week the team members were assigned a topic related to blockchain to cover and present their findings to each other. We feel we have a good

understanding and foundation to move forward with the project. To finish sprint 1, the major parts needed will be information to display for the User, Creator, and Investor pages.

Moving forward to sprint 2, we will be creating our three components, described in more detail in section 3. We feel we are in a good position to finish the sprint 1 goals, and move into the more developing phase of sprint 2.

Section #3: Problems that need Resolving

Our payment framework is composed of the three components to include the aforementioned backend, business site integration and customer platform. The main problem that will need to be resolved for our project overall will be the facilitation of encryption/decryption with the appropriate keys to be served between the client and the business to allow client payment and viewing of content anonymously. With each of these components, there are also specific challenges that need to be resolved.

For our customer platform, we have chosen to create a browser extension for ease of use, however we will need to address the potential of porting the extension to support several different browsers, and the ability to interact with the platform on mobile devices that do not support extensions. Additionally with the customer platform, we will need to design the appropriate routing in order to facilitate a payment to our backend component for the unique page to be viewed and serve the key to decrypt the content.

For the business site integration, we will need to create a package that has the ability to integrate with new and existing web pages. This package will also need to be able to be ported into several different frameworks. We will need to implement within this package the ability to encrypt the content that will be delivered to the user, as well as send the appropriate key back to our backend. For our backend component, we will need to decide on the appropriate technology to use that is practical and efficient. As it stands currently, a traditional database will suffice, but there could be alternative design solutions in the future.

Section #4: Project Highlights

The main project success that has been achieved thus far is the informational product site. This site gives potential customers, business users, and investors a place to learn more about the product we are developing and how it can improve their experience on the internet. The site also provides these target groups with a method to contact our team so that they can stay updated on the status of the project and receive any other information that may be beneficial to them. The live site can be viewed here: <https://zephyr-dev.herokuapp.com/>

Another success for this term was achieved by our project partner through the Advantage Accelerator program here at Oregon State University. Our project concept was awarded some funding in a startup concept competition. This funding will be helpful moving forward into the main development stage of the project.

Section #5: Summary of Design Review Feedback

We did not receive any verbal or written feedback from our live session, but we did receive some feedback from a PHD student named Akshith Gunasekaran. We discussed the scope and direction of our project and we were advised to focus on a specific aspect of the design. The scope of a nine month project should try not to have multiple interworking mechanics that could be a project on their own. Besides this student's advice it has been difficult to find advice on our topic involving blockchain technology.