Team Number: 21-2
Team Name: CyberSuccess

Members: Jesse Andringa, Timothy Ashour, Nathan Jager, Jeremy Schlagel, Eliza To, Ben Weiler

Application Name: Donate Up

App Description:

Donate Up is a simple chrome extension that is easily downloadable for anyone on the internet that is interested in donating small amounts of change to charities. Donate up will pop up anytime the user is about to make an online purchase, and will ask the user if they would like to round up their purchase and donate the change to their charity of their choice.

The extension will have a simple yes or no question, and if yes is clicked, then it will pop up three charities to choose from. The user can then pick their charity and hit donate. All done! This chrome extension is perfect for users who want to help out and donate money, but don't have tons of money to donate or time to search and find charities themself. Additionally, the user can log into their account and track their donations over the year to see the total difference they are making.

This application will be a prototype and will not actually allow the user to enter their credit card information. This is so we can capitalize on the user's experience, without having the risk of handling actual money.

Vision Statement:

Donate Up, the effortless way to build charity into your digital life.

Version Control:

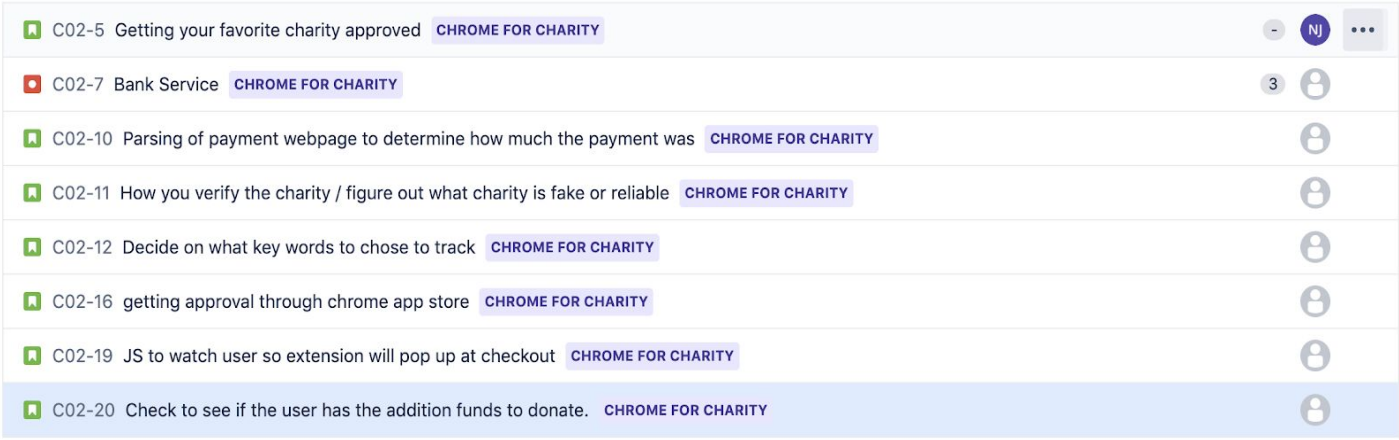
GitHub Link to our folders and Readme

Development Method:

The methodology we will be using is agile/scrum because our project follows closely to the four basic values which represent the core philosophy of Agile development. We would be able to tackle a problem and deploy solutions easier, focusing closely on the customer and the solutions through sprint plan meetings. Our chrome extension requires many small pieces to fit together perfectly requiring a sense of flexibility in our development plan. Because our team consists of 6 people, we want to rely on self-organization and decision making as a team. Our ScrumMaster. We will rely on our scrum sprints to help us as a team pick apart our project into smaller increments

and figure out what we each want to tackle, what we have done, and what the next steps are. We will work as a team to develop our stories and craft different epics for our architectural plan. We will distribute tasks/stories during our team meetings.

Users stories in Jira that we came up:
https://csci-3308-spring21-021-2.atlassian.net/jira/software/projects/C02/boards/1



Communication Plan:

Our team plans to communicate through Discord. We plan to meet on Mondays 5-7 pm. We have a google folder that has all of our milestones, notes, and anything about our project.

Meeting Plan:

Mondays from 5:00 P.M. to 7:00 P.M. Mode: Zoom Meeting/Discord
T.A. Meeting time is Wednesdays 2:45 to 3:00 P.M. VIA Zoom Meeting.

Proposed Architecture Plan:

HTML, CSS, and JavaScript will be used for the frontend of the Chrome extension. The user interface will originally start as a web page consisting of the ideal chrome UI, a settings page, a page for viewing their donation history, donation functionality, and the pop up that prompts the user for whether they want to donate their change from an online payment.

Settings will be saved to the end user's computer through Chrome's local storage database. These settings will include user account settings, payment information, and charity preferences.

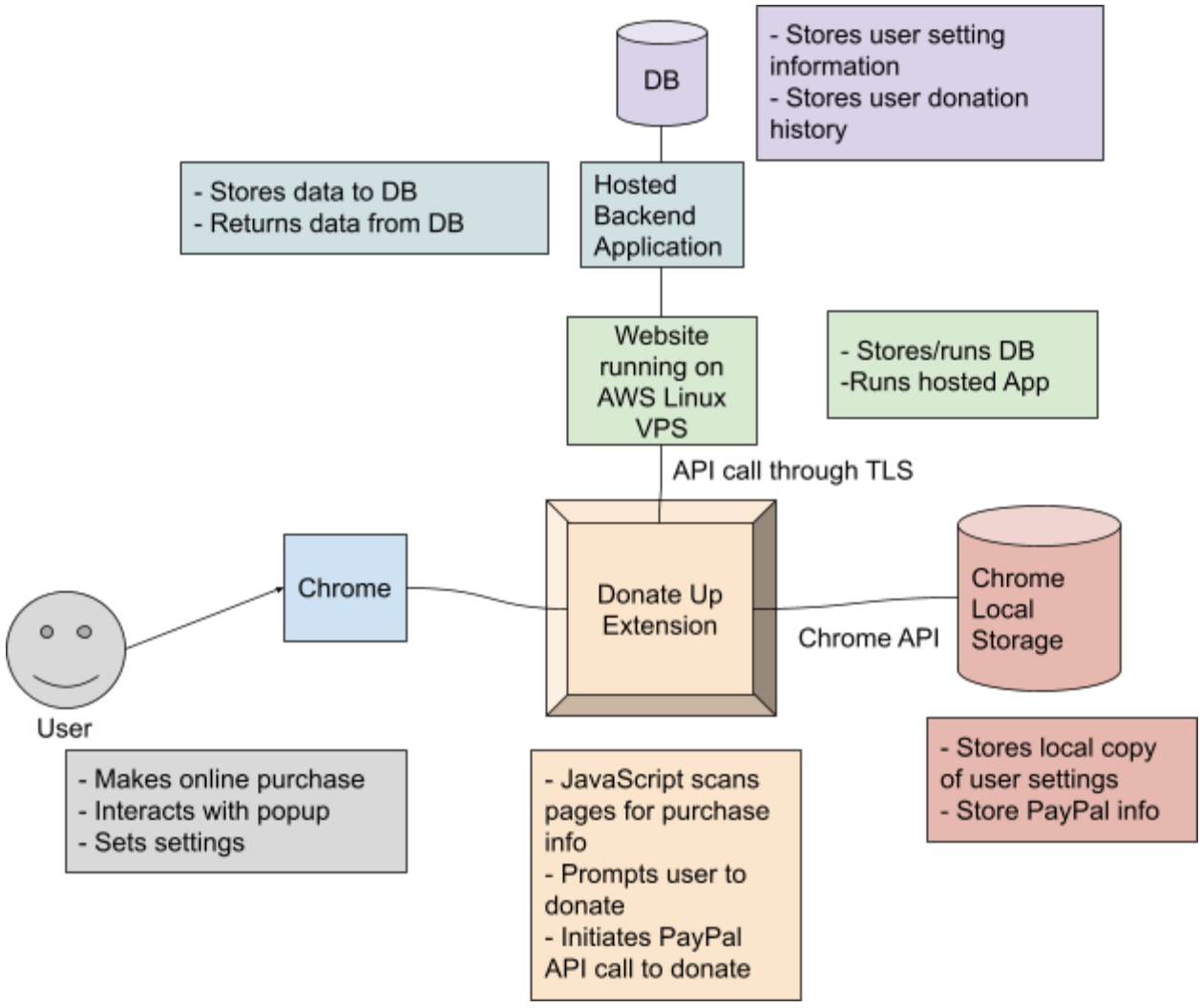
JavaScript/Python API's and will be used to detect the user's purchase, prompt the user to donate, and make a call to PayPal to initiate the donation.

User accounts will be stored within a database on a VPS that will be run by the CyberSuccess team. The database will keep track of a portion of the settings that the user creates locally, so that they can keep their settings across different computers. It will also host their donation history information. No payment information will be stored on the server.

Tentatively, the VPS will be a Linux AWS machine and the database will be MongoDB.

The minimum deliverable product for this design will only support one specific online store and will support only donations through PayPal.

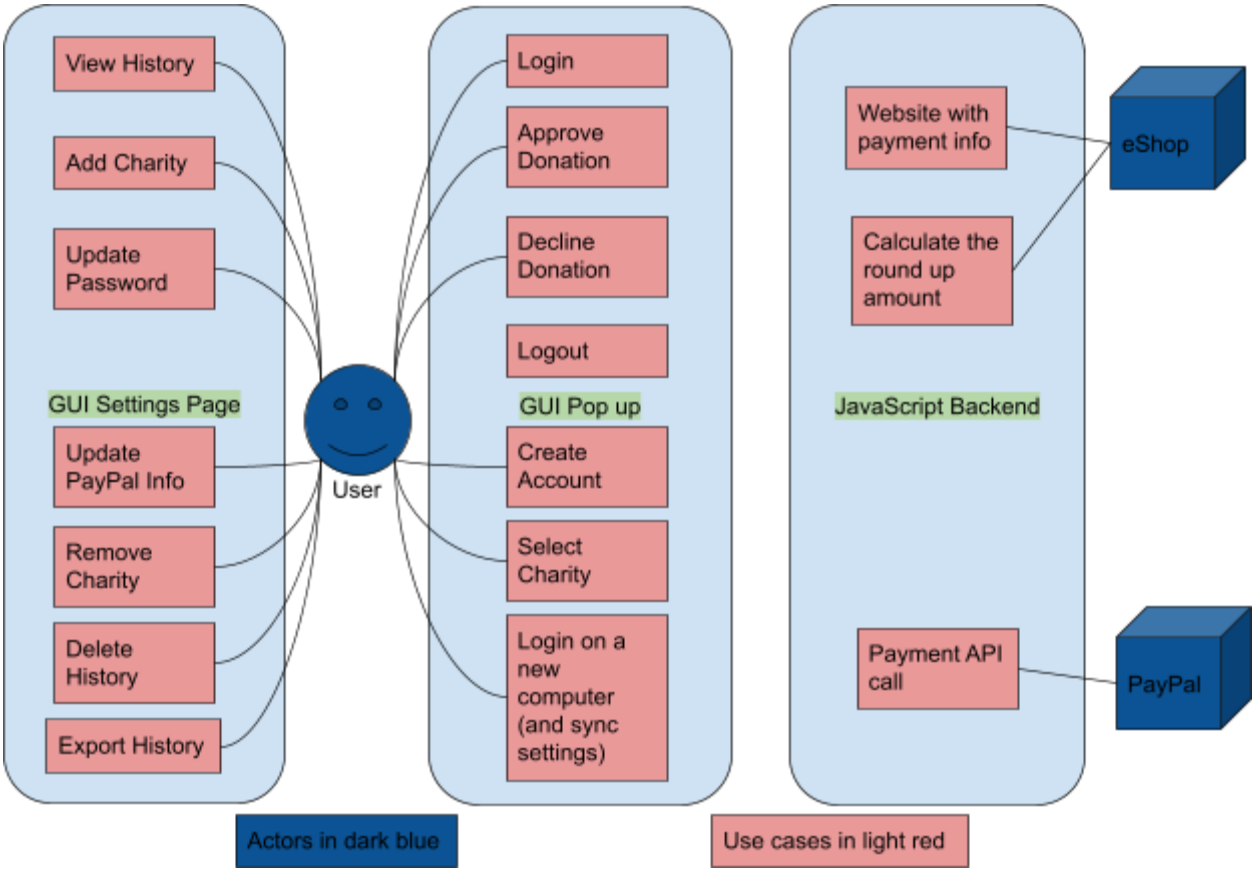
High Level Architecture Diagram



Use Case Diagram/s:

Our team has created two different use case diagrams to help us map out and understand our app.

User-centric Use Case Diagram



High-Level Interconnect Use Case Diagram