

Donation Station

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Description

Last year I attended the LauchCode birthday gala, I tried to donate 3 times that night and the app failed. I said I would do it later, but I never did. To solve this problem, I created a better/faster way to donate to charities at events. The charity will have a number that the user will text with the amount they wish to donate. The app responds with a link which takes them to apple/android pay button.



Features

- SMS: Donors use text to send donation amount & receive link
- Apple/Android Pay: Stripe API to handle payment details
- Email: Donors & Charities receive email confirmation
- User Login: Charities log in & see donor information
- CRUD: Relevant information stored for tax purposes



Planning - User Stories

As a Donor, I can text amount to charity number & receive a link back to pay. When I click on the link, a webpage opens in browser. When I click the Apple/Android pay button, all of my info is sent and I receive an email confirmation of donation.

As a Charity, I receive an email confirmation of donation. I can login and see all of the donations with name, email, address, and date so I can send tax letters.



Planning - Database

The database has a donor table which includes name, email, address, donation amount, date, and charity. The charity column links it to the Charity table which contains the charity name and login information such as username and password.



Technology Stack

- Java and javaScript
- Spring MVC
- Thymeleaf
- phpMyAdmin
- Twilio API, Stripe API, Sendgrid API, bootstrap



Phone Demo

<https://www.youtube.com/watch?v=64IoFeRISvs>



Charity Demo

<https://www.youtube.com/watch?v=8lf-vdwwz6I>



Back-end Demo

https://www.youtube.com/watch?v=ZZ-X_UpTy5g



What I Learned

- Integrating some javaScript in a Java program
- Incorporating APIs such as Twilio, Stripe, and Sendgrid
- Utilizing bootstrap along with other css
- Utilizing java wrapper classes to extract data from external sources



What's Next

- Allowing charities to search donations by date
- Setup admin account to assign charity text numbers
- Adding more bootstrap elements to login and new user forms
- Fixing bugs that cause changing donation amount on form from processing on certain occasions
- Adding password hashing and sessions to charity login

