

March Progress Update

1 Progress Since Last Report

Since my last report I changed my decision about web technology to an implementation in Racket. The rationale for this decision is that Racket provides built-in capabilities for both website production and database interaction. This provides an ideal framework for a project like this. Using Racket, I have constructed a simple website that views all donors fetched from the database. I have laid down a database-website interaction framework that enables future developments. What I have not accomplished is populating randomized disease lists, tests done, addresses. Additionally, the website lacks user search and user match capability.

I have elected to postpone the completion of data population for two reasons:

1. This is a minimal set of data that could exist in a real situation; name, phone, bloodtype.
2. Until I develop search capabilities, the data is unnecessary and thus does not detract from current development.

2 Problems I'm Having

I am having issues with developing an effective and aesthetically pleasing display for the donor list. A simple way to accomplish this is in Javascript, but Racket documentation about using Racket to produce Javascript is sparse. Until I get a grasp on the Javascript aspect I cannot make progress, so that is a very high-priority goal. I do not anticipate needing support from teaching faculty to accomplish this.

3 What I Plan To Do About It

I am considering a paradigm similar to those of other web stacks such as PHP/Javascript integration, or CGI approaches, which generate the output HTML according to a host language, but embed Javascript for advanced operations like jQuery.