**RF-2**

**Drew Yellina Jakob Markland Bryce Winnecke**

**10/6/2020**

Contributions

Team Lead- Drew Yellina

Developers- Jakob Markland

-Bryce Winnecke

Introduction

* + Purpose- Make it easier for people to apply for membership at the 40 and 8, for them to enter raffles through the club, or find information about the organization.
  + Definitions
  + System overview- We will be making a website for the club and it will be hosted using digital ocean and angular. We will be using HTML, CSS, typescript, and java.
  + References- <https://angular.io/docs> | <https://www.digitalocean.com/community>
* Overall description
  + Product perspective
    - System Interfaces-Front end: typescript and HTML, Back end: Java
    - User Interfaces- computers or phones
    - Hardware interfaces- Windows, a internet browser
    - Software interfaces- Angular
    - Communication Interfaces- n\a
    - Memory Constraints- Digital ocean can be scaled up or down depending on the number of users to the site
    - Operations- Network management systems handled by digital ocean
    - Site Adaptation Requirements- making sure that the members of 40 and 8 can easily use the site and that the site can be used on fully on phones and all web browsers
  + Product functions- Serve as a way that people can apply for membership and pay their dues online through PayPal. Also set up a raffle system so that members can pay their raffle fees through PayPal and the website will pick the winner at random and will display the winner of the weekly and monthly winner at the header of the website.
  + User characteristics- Mostly older users so it is important that we make the user interface very simple and easy to use and clear and concise so that the users will be able to navigate the website and use it to the fullest extent.
  + Constraints, assumptions and dependencies- We will be depending on digital ocean to host the website and relying on PayPal to do its job in collecting money from users and also assuming that users have a PayPal account to connect to the site.
* Specific requirements
  + External interface requirements-
  + Functional requirements- We will be using a random number generator to pick the winner of the raffles. We will have to check and see if they have ever served in the military because if they have then their membership would be free, and they do not have to pay any fees.
  + Performance requirements- We will have individual webpages so they are independent of each other so they load faster for the user and we will have few high-resolution images so that the webpages will load at a fast rate.
  + Logical database requirement- We have decided not to incorporate a database into the system because there are not enough members at the club for it to be reasonable to implement into the system.
  + Software System attributes
    - Reliability- Since we are using Digital ocean for the server side of things, we will only have to worry about our code within the software to be reliable and we will be sure to test our code before use.
    - Availability- This will be available to all users as longs as they have an internet connection and an internet browser.
    - Security- This is an important part of the system which is why we will have users login to their account and have PayPal reroute them to their site so we will not have to worry about security for users PayPal account.
    - Maintainability- This site should be self-maintained there should not be a lot of maintenance to the site if there would ever need to be maintenance I would be there as a member of the 40 and 8 to do maintenance for the site.
    - Portability- We can always transfer it to another hosting site other than Digital Ocean in case their fees for hosting were ever to much for the club.
  + Other requirements