SUF – Food Drive
Functional Specification
Application Stack

Draft A – May 30, 2018

Languages and Tooling
- MongoDB (Database)
- PHP 7.1 (Primary Scripting Language)
- TypeScript/Javascript (Front-End Scripting Language)
  - Jquery
  - AngularJS
- HTML5 (Markup Language)
- SCSS (Stylization)
  - Compiles to CSS
- Grunt (Build/Compile/Deployment Systems)
- Git (Software Repositories)
- Bower (Front-End Dependency Management)
- Composer (Back-End Dependency Management)
- Vagrant (Server Virtualization for Local Development)

Server Architecture
- Ubuntu 16.04+
- MongoDB 3+
- Apache 2+
- SSH

Hosting
ZDI does not provide hosting services, however we recommend the following providers:
- Rackspace: https://www.rackspace.com
- Atlantic: https://www.atlantic.net

Both providers offer managed hosting.

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User Roles

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This application will contain the following user roles:
- Administrator – Persons whom have the ability to log into the Administrative Control Panel and modify the application's content and/or behavior
- Athlete – Persons competing in an effort to raise money for the Food Drive
- Donors – Persons who contribute to the Food Drive

Administrators
Administrators will have complete access to the applications entire functionality and all functionality described in the respective "Administrative Control Panel" functional specifications.

Administrators can only be created, edited or deleted by other Administrators.

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Athletes

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Athlete's will have the following data points:
- Name
- Profile Photo
- Bio
- Email Address
- Password
- Food Drives – An array of past and present food drives they have participated in
    - Food Drive ID – The ID of the food drive they participated in
    - Gallery – A gallery of photos related to the specific food drive
    - Exercise – The exercise they performed
    - Rep Count – The number of reps they performed
    - Charity – The charity that the athlete is donating proceeds to
    - Video – A video of them performing the exercise
    - Receipts – An array of images of food purchase receipts
    - Remote Contributions – See Description Below
    - Monies Distributed – See Description Below
- Active – A Boolean flag indicating whether this athlete is permitted to log in
- Distant Contributor – See Description Below

Registration
Athletes will be required to register once. Upon registration, the athlete will **not** have access to their dashboard where they can add and edit content.

Upon registration, an email will be generated to the Administrator(s) with the registrant's details. Within the email there will be an "Approve" and a "Deny" button:
- Approve
    - Athlete will be flagged as active and will now be able to log in
    - Email will be generated to the athlete informing them of their access
- Deny
    - Athlete will be flagged as inactive and will not be able to log in
    - Email will be generated to the athlete informing them that access cannot be granted at this time.

Remote Contributions
Some athletes will be out of state and may receive checks or cash that they need to report towards the food drive totals. Athlete's will be capable of manually entering a dollar amount received. This will also allow the application to aggregate monies received via the application and in possession of SUF from monies not received via the application and within the possession of SUF.

Upon the addition of a remote contribution, Administrator(s) will receive an email indicating that a remote contribution has occurred.

Sponsorship Banners
ZDI will design several standard sized banner ads promoting the event. These will serve as templates for individual athlete marketing efforts. Athlete will be capable of customizing the banner with their own photo, which will be programmatically merged into the ZDI designed banner.

Upon banner creation, the Athlete will have the ability to immediately share the banner to Facebook and Twitter. Athlete will also be able to download their generated banner image(s).

Food Drive Exercise, Rep Count and Video
Athlete will be capable of setting the exercise they performed and the achieved rep count. As proof of their performance, the Athlete will be required to provide a Vimeo video link.

ZDI will make a good faith effort to allow direct uploading of videos but client understands that with the vast amounts of codecs in use today, this may require additional software on the server.

Once a Food Drive has been closed or otherwise reached its expiration date, the athlete will no longer be capable of editing their exercise, rep count or video.

Food Drive Gallery
Athlete's will be capable of adding a collection of images related to the specific Food Drive. The application will automatically optimize and resize these images as necessary.

Dashboard
Athletes will be capable of seeing the amount of money raised to date on their dashboard and how that relates to the goal set by the Administrator for the Food Drive (See the Food Drives portion of the Functional Specification)

Athlete will be capable of seeing past Food Drive performance as well.

Distant Contributor
A boolean flag indicating whether this athlete is a "distant contributor". When selected, it is assumed that this athlete will be purchasing goods to be delivered to their local Food Charity. In these cases, monies in SUF possession will need to be distributed to the athlete.

Monies Distributed
A Boolean flag indicating whether SUF has distributed Monies in SUF Possession to the Athlete. This flag is only present when the Athlete is a Distant Contributor and is used by the Administrator(s) to determine if money is owed to the Athlete.

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Food Drives

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Food Drives will have the following data points:
- Title
- Expiration Date – a Date to stop accepting donations and to otherwise "lock" the details related to the Food Drive.
- Description
- Donation Goal – A dollar amount SUF has set as the target goal of money to raise
- Premium Donation – A dollar amount that when a Donor meets or exceeds this amount, will be prompted for additional information. (See Donors section of this Functionality Specification
- Active – A Boolean flag indicating whether the Food Drive is now open to accept donations and should appear on the website, including within historical contexts.
- Banner Templates – An array of images that are used as banner ad templates that Athletes use to create personalize marketing.
- Gallery – An array of images to compose a photo gallery
- Athletes – An array of Athlete IDs of the Athletes whom are participating in this Food Drive

Marketing materials and content for the Food Drive that appears on the website will be hard coded and updated by ZDI and not via the means of the application or CMS.

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Donors

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Donors will have the following options when donating:

- Athlete – Which athlete the donor wishes to contribute to. If the donor does not want to contribute to a specific Athlete, the donor will have the option of donating to the general cause
- Donation Amount – Should the dollar amount meet or exceed the "Premium Donation" amount set within the Food Drive, the application will ask the donor for the following information:
  - Company Logo (Optional)
  - Website (Optional)
- Message – A message the donor may wish to add to the donation.
- Anonymous – When selected, their name and personal identifying information will not be disclosed publicly.
- Name – (Required)
- Phone – (Optional)
- Email – (Required)
- Credit Card Number (Required)
- Name on Card (Required)
- Card Expiration Date (Required)
- Card CVC (Required)
- Billing Address (Required)
- Billing City (Required)
- Billing State (Required)
- Billing Zip (Required)

After a Donor has completed a transaction, the application will present them with the ability to share their generosity via Facebook and Twitter.

All transactions will result in the following emails being generated:

- Notification to Administrator(s)
- Receipt sent to Donor

All transactions conducted here will be counted as "Monies in SUF Possession".

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Transactions

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All transactions will be conducted and processed by Stripe. The application will not store or otherwise retain any credit card information.

The application will store all successful transaction results within the database and within a "Donations" record.

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Manual Transactions

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Administrators will have the ability to process manual payments. There will be several payment types:

- Charge – When this payment type is selected, a credit card will be required and charged. This will be counted as "Monies in SUF Possession".
- Check – Used to allow a donation made via check to be counted towards the Food Drive goals and other leaderboards. This will be counted as "Monies in SUF Possession".
- Not Present – Used to allow a donation to be counted towards the Food Drive goals and other leaderboards where SUF is not in possession of the money. These will be counted as "Monies out of Possession".

When an administrator executes a manual transaction, the following information will be required:

- Charge
  - Athlete – Which athlete the donor wishes to contribute to. If the donor does not want to contribute to a specific Athlete, the donor will have the option of donating to the general cause
  - Donation Amount – Should the dollar amount meet or exceed the "Premium Donation" amount set within the Food Drive, the application will ask the donor for the following information:
    - Company Logo (Optional)
    - Website (Optional)
  - Message – A message the donor may wish to add to the donation.
  - Anonymous – When selected, their name and personal identifying information will not be disclosed publicly.
  - Name – (Required)
  - Phone – (Optional)
  - Email – (Required)
  - Credit Card Number (Required)
  - Name on Card (Required)
  - Card Expiration Date (Required)
  - Card CVC (Required)
  - Billing Address (Required)
  - Billing City (Required)
  - Billing State (Required)
  - Billing Zip (Required)
- Check

- o Athlete – Which athlete the donor wishes to contribute to. If the donor does not want to contribute to a specific Athlete, the donor will have the option of donating to the general cause
- o Donation Amount – Should the dollar amount meet or exceed the "Premium Donation" amount set within the Food Drive, the application will ask the donor for the following information:
  - ▪ Company Logo (Optional)
  - ▪ Website (Optional)
- o Message – A message the donor may wish to add to the donation.
- o Anonymous – When selected, their name and personal identifying information will not be disclosed publicly.
- o Name – (Required)
- o Phone – (Optional)
- o Email – (Required)
- Not Present
  - o Athlete – Which athlete the donor wishes to contribute to. If the donor does not want to contribute to a specific Athlete, the donor will have the option of donating to the general cause
  - o Donation Amount – Should the dollar amount meet or exceed the "Premium Donation" amount set within the Food Drive, the application will ask the donor for the following information:
    - ▪ Company Logo (Optional)
    - ▪ Website (Optional)
  - o Message – A message the donor may wish to add to the donation.
  - o Anonymous – When selected, their name and personal identifying information will not be disclosed publicly.
  - o Name – (Required)
  - o Phone – (Optional)
  - o Email – (Required)

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Reporting

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Administrators will have the ability to generate reports for each Food Drive. The reports will break down all donations segregated by
- Athlete
- Monies in SUF Possession
- Monies out of Possession
- Amounts owed to Distant Contributors

I agree that these *Functionality Specifications* fulfill proposed scope in this Amended *Phase One* of contracted work — and I understand that any changes to these *Functionality Specifications* during the course of development may incur additional charges and or extended duration of proposed milestones.

Client Signature:_____ Date:_____

ZDI Signature:_____ Date:_____