

Current State of RISE@Work

As of winter 2016

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Features & Status

- Database restructure (Complete)
- Maps (Complete)
- Surveys (Complete)
- Consent forms (Complete)
- Improved spreadsheets (Complete)
- Admin dashboard (Complete)
- Emails (Partially Complete)
- Accelerated testing (Incomplete)

Database Restructure

This feature is complete.

When the application was first received, there were many strange database tables and columns that did not meet database normalization requirements. Now, the database and specifically the way data is modeled within the Ruby on Rails application is much more in line with the Model-View-Controller coding paradigm. This restructure of data allows for faster feature development and onboarding for new developers in the future.

This upgrade was seen as absolutely necessary in order to complete *any* other features completed by the winter 2016 RISE@Work team.

Future work

It is recommended that any future development adhere to the MVC standard.

Maps

This feature is complete.

Overview

Maps are used to show participants suggested walking routes they can follow to help achieve their step count goals. Maps were originally static images that were often cropped too much to see the entire route. Now maps are much more user friendly: they make use of embedded Google Maps which provide a rich, interactive medium to see walking routes.

Originally maps could only be added an organization but *not* removed. Now when adding new maps to an organization, a researcher or site administrator can either choose from a maps bank of existing maps or create a new map. Maps may also be removed as well, so that the researcher can manage what maps are visible to participants in their organization.

Surveys

This feature is complete.

Overview

Previously, surveys (or questionnaires) were hard coded and painful for participants to fill out. The new surveys feature gives complete control of surveys to site administrators by providing a survey management tool. Site administrators can now create, read, update, and delete surveys: adding and removing questions, and even choosing when in the intervention a particular survey will be visible to participants. For participants, surveys are much more enjoyable: multiple questions are displayed on one page which allows for faster survey completion and less frustration.

Consent forms

This feature is complete.

Overview

The new consent forms feature allows researchers and site administrators to choose a custom, *PDF format only*, consent form for an organization (researchers can only change the consent form for *their* organization). This is useful because organizations may have different ethics requirements for participation.

The consent form is initially set when the organization is first created, but can be changed later in the organization settings (note that updating an organization's consent form will replace and delete the old form from the system).

Consent form PDFs are used when a participant registers for RISE@Work. While completing the registration form, the participant chooses their desired organization from a select menu containing all organizations. When the user selects the organization the consent form for that organization is fetched and displayed within the registration form.

Once the consent form PDF has loaded, a checkbox appears below the consent form which, when checked, serves as the participant's informed consent. The participant *cannot* agree to participate in the program without having loaded the consent form.

Future work

Currently when replacing the consent form in the organization settings, the old consent form is not displayed to the researcher/site administrator. It would be useful to display the current/old consent form so that they know what they are replacing.

Improved Spreadsheets

This feature is complete.

Overview

Previously, spreadsheets were downloadable however they did not provide very detailed information. The new and improved spreadsheets include step counts (or "activities") for all users for each phase, including baseline, as well as answers to the baseline and follow up survey questions.

Spreadsheets have also been made cleaner and more organized by separating the data for each phase into its own worksheet which allows a user to quickly navigate between phase data through the use of tabs in their preferred spreadsheet application (Excel, Numbers, etc.).

Future work

Spreadsheets currently only contain data from the baseline and follow-up surveys. It is recommended to query for all available survey data (according to the new custom survey feature) as there may be more than just the main two surveys.

Admin Dashboard

This feature is complete.

Overview

The newly added admin dashboard is visible only to site administrators upon logging into RISE@Work.

Previously, any user logging into the application would be presented with the *participant* dashboard view with step logging, routes, graphs, and other participant related content. Now, when logged in as an administrator, the user is only presented with what is necessary for managing the application.

This feature reduces the mental load on the user by presenting a minimal amount of options with a clean interface. Some of the options included are: manage organizations, manage users, manage routes, etc.

If a site administrator wishes to participate in the RISE@Work 11-week intervention they must create a separate account.

Emails

This feature is partially complete.

Overview

RISE@Work has the ability to automatically send the following emails to participants:

- Phase completion emails
- Mid-phase emails
- Program completion emails (wrap up)
- Step logging reminder emails
- Password reset emails

With the new emails feature, now site administrators can also edit the subject and content of the phase completion emails.

The project currently contains all functionality to send all necessary emails at the correct times. For example, once turned on, the application will check every night at midnight whether a participant should be moved to the next phase. If they are moved to a new phase, an email is sent to them.

The incomplete portion of this feature is the implementation of the service by which to *send* the emails. It is recommended to use a service such as [SparkPost](#) for this purpose. To use a *custom email address* with this kind of service, the developer must be able to confirm ownership of the domain used in the email address. For example, to send from the email address rise@dal.ca the developer must be able to confirm ownership of the dal.ca domain name. This is problematic for students as they do not have access to the dal.ca domain (this is restricted to DAL Information Technology Services).

Future work

It is recommended that the clients purchase a custom domain name (e.g. riseatwork.ca). With the ownership of the domain name, a developer would be able to implement (or “turn on”) the use of the automatic emails by confirming the domain with a SparkPost account.

Accelerated Testing

This feature is incomplete.

Accelerated testing of the RISE@Work application allows the clients to test run the program in a short amount of time (i.e. hours or minutes instead of 11 weeks).

Though this feature has not been implemented, a solution has been conceived for future developers: to shorten the length of the program from 11 weeks for testing purposes, the solution is to change the length of a Phase from 14 *days* to 14 *minutes*. All other site functionality would remain the same, but shorter phases would mean less waiting during pilot testing.

This should be implemented in a test environment or a test version of the site as to not change the length of phases for a live study.