

# Openreferral.org Projects

BlackRock Code Sprint for Impact 2017

## Project A:

## API 1.2 App Deployment

### Relevant Links:

1. HSDS schema: <http://docs.openreferral.org>
2. HSD API spec: <https://openreferral.github.io/api-specification/>
3. API reference implementation: <http://developer.open.referral.adopta.agency/>
4. Helpsteps: <https://github.com/codeforboston/helpsteps-mobile>
5. Ohana Web Search: <https://github.com/codeforamerica/ohana-web-search>
6. Link-SF codebase: <https://github.com/openreferral/linksf>

## Project Description

Open Referral has been working with multiple organizations to build out standard ways to share social service data. Our partners include city services, hospitals, churches, and other tech nonprofits.

We have 3 open source apps that are now using an outdated API protocol. We have upgraded to HSD API version 1.2 and need support updating those apps to work on new specification.

Apps: Link SF (built with Zendesk); Ohana (built with Code for America); HelpSteps (Boston Children's Hospital).

## Specific Tasks

This may entail:

- Transforming sample data sources
- Deploying the Open Referral API
- Refactoring applications

Objectives:

- Test multiple Open Referral API deployments
- Demonstrate that data from multiple sources can be coherently aggregated, visualized, resolved and verified
- Fork apps and refactor codebase in accordance with new OpenAPI spec
- report bugs, questions, and blockers
- Bring into github.org/openreferral repo, and document the redeployment process

## Technologies

Helpsteps Mobile: Ionic, Node.JS, Npm, Xcode (iOS) or Android Studio (Android)

Ohana: Ruby on Rails, Heroku

LINK-SF: React.js

## Project B:

# Resource Directory / Registry Verification

## Project Description

Create a registry that can aggregate (and facilitate human verification of) resource directory records from across multiple sources. We will be using the Dedupe.io tool to do so using Python.

## Specific Tasks

- **Develop functionality to:**
  - Poll multiple sources for data
  - Match records
  - ID conflicts between matching records and/or flag data for review
  - Display conflicts and prompt for resolution / verification
  - Republish aggregated / consolidated data
- Deploying Dedupe and/or other tools to match records across multiple redundant sources
- Developing tools to facilitate the resolutions of conflicts and verification of accuracy of data
- Developing UUID management solution

## Relevant Technology Links

Dedupe.io: <http://dedupe.io/>

Dedupe GitHub: <https://github.com/dedupeio/dedupe>

## Project C:

# Hurricane Emergency Response: Miami 211 Project (TBD)

## Project Description

Crisis Response Task Force. We are coordinating with organizations across South Florida, preparing for Hurricane Irma Response. We don't yet know what the projects might be, but one solution would be to redeploy the Miami211 application OR building out features for the Irma Tech Volunteer Guide (shared document posted below).

## Specific Tasks

- Redeploying the Miami Open211 API (and data munging / ETL)
- Developing workflow around crowdsourcing / record verification
- Irma Tech Volunteer Guide Project

## Relevant Links

Miami 211: <https://Miami.open.211.adopta.agency>

Miami 211 GitHub: <https://github.com/miami-open-211>

Irma Tech Volunteer Project Guide: [Irma introductory guide](#)

Benetech's Code Alliance Initiative  
[www.benetech.org](http://www.benetech.org)

