

Networker

origination 09.04.2015

as of 11.09.2015

Michael Williams

MPLE

Portland, OR 97209

Table of Contents

[Table of Contents](#)

[Overview](#)

[Goals](#)

[Specifications](#)

[Potential Applications to Integrate](#)

[Deployment](#)

[Milestones](#)

[PDX Code Guild Developer Accelerator < 3 weeks](#)

[Year of 2015 < 4 months](#)

[Year of 2016 First Quarter < 7 months](#)

[Year of 2016 Mid-Year < 10 months](#)

[ER Diagram](#)

[UML Diagram](#)

[Wireframes](#)

[User Update Profile](#)

[Product Backlog](#)

[Product Backlog](#)

[Sprint Backlog Not listed in development order](#)

[User Template from the actual User's login](#)

[User Template from another User's login](#)

[Base.html Template](#)

[Select Group Template](#)

[Group Template](#)

[Group Welcome Page Active Template](#)

[Group Welcome Page Disable Modal / Disable /](#)

[About Template](#)

[Phone Book Template](#)



[URL http://www.networker.com](http://www.networker.com)

[Forgot Password Template](#)

Overview

Networker is a secure, responsive web application for constructing private groups. The user group for this project will be a “mock family network”. The idea is to reach within your network for assistance before seeking assistance outside of your network. This strengthens the network and reduces the existence of weak links.

The application will provide the opportunities to login into a secure environment, build a phone book, track user locations of residency, observe analytics based on the user group profiles, communicate through project-based message system. The project-based message system will allow for the users to collaborate on specific goals and communicate through posts and uploads.

Goals

1. Finish a viable product by the end of the accelerator; phone book, map, and message system.
2. Convert the mock family network to an actual user group within a secure login environment.
3. Discover bugs and key features to strip or scale the design.
4. Reach a point where the project is a template for additional user groups.
5. Convert to a mobile application.

Specifications

The core of the application will be built with Python, Django Python Framework, JavaScript, HTML, CSS, and Twitter Bootstrap.

Potential Applications to Integrate

Google Maps JS API <https://developers.google.com/maps/documentation/javascript/>

Highcharts <http://www.highcharts.com/>

Ionic <http://ionicframework.com/>

Deployment

Pending. Currently, using Namecheap's shared hosting for portfolio site. It is not possible to use Django on the shared servers. It will need to be deployed either on the VPS or Dedicated servers. Heroku or AWS are alternative providers.

Milestones

I. PDX Code Guild Developer Accelerator < 3 weeks

* Refer to sprint backlog for details

Build a phone book. Permit profile changes to the following fields: first name, last name, address, phone number(s) email(s), social media handle(s), profile image, occupation, education, skills of interest, and deactivation. Assign appropriate permissions to only make changes to the logged-in member's profile.

Each user is capable of viewing the phonebook but only the owner of the profile can modify his or her respective settings.

Secure environment through a login feature. Ability to develop a username and password. The unique identifier is the username

Connect to a map API. Each user's location will place a marker on the map. By clicking on a marker, an infowindow with minimal details to include the user's name, profile image, and location.

Pie charts based on user occupations and skills. A pie chart could include 50% engineers, 10% medical, 25% customer service, 15% musicians.

II. Year of 2015 < 4 months

Scale the project for multiple groups.

Convert the unique identifier of the username in the secure login environment to email.

This maps infowindow is linkable to a full profile of the user. The latitude and longitude is auto-generated once a user inputs a full address. Auto-close infowindow upon selection of another infowindow.

Once a attribute is "removed", the count acknowledges a remove versus a deletion. Only show count for active attributes.

Ability to reset or change the password under the profile for each user.

The phone book will provide a search and filter features.

Build a message system. Provide the capability to post a message, tag a message, and upload various image & document types.

Once an organizer leaves a group, a poll station is fired off for each group member to submit vote for the next organizer.

Auto-assign a member to a group upon registration.

Deploy to Heroku. Email invitation to join a group.

Upon creation of a group, auto-generate a forum. Provide user ability to create a group.

Modify features throughout application to highlight the login user (i.e. the login user should be first on the list for the directory of the group).

Adjust "is_current" for job data. The is_current should calculate to present time.

Pagination for lists. Breadcrumbs.

Either generate complex primary keys or restructure URLs for text parameters. Fix bug for selection of other user data by adjusting primary keys in URLs.

Custom message for "is_active".

Redesign user list to resemble a digital phonebook with alpha character pagination.

Remove a group feature.

Potentially, convert user models to abstract base user.

III. Year of 2016 First Quarter < 7 months

Improve the application's security.

Advanced message system with project-based channels that generates thumbnails for web link, documents, and image uploads. This is similar to the [Slack app](#). Ability to make multiple project-based channels with the message system.

Advanced user profiles to include former locations of residency, vacation, education and professional development.

Advanced analytics based on the user profiles. Ability to click through and filter the graphs and charts to access more details.

Advanced map features. A legend with color indicators referring to the advanced user profiles. The map will have filters based on the color key.

IV. Year of 2016 Mid-Year < 10 months

To do list or project management tracker features.

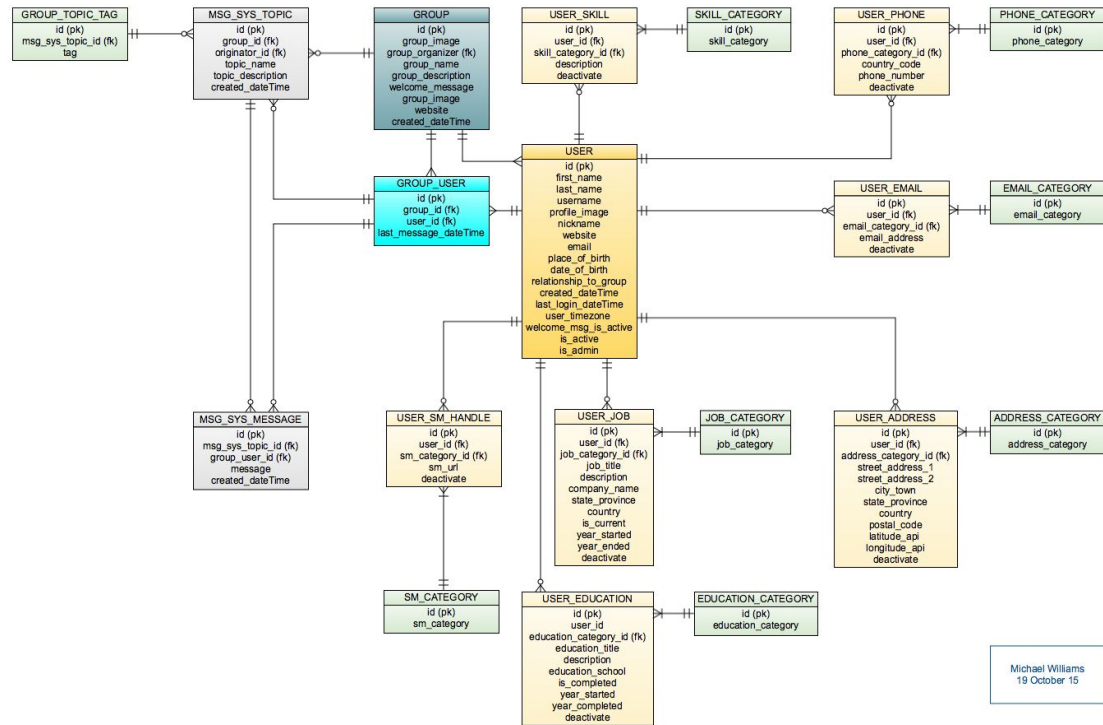
Presence -- knowing whether or not a user in your network is online.

Search site wide feature.

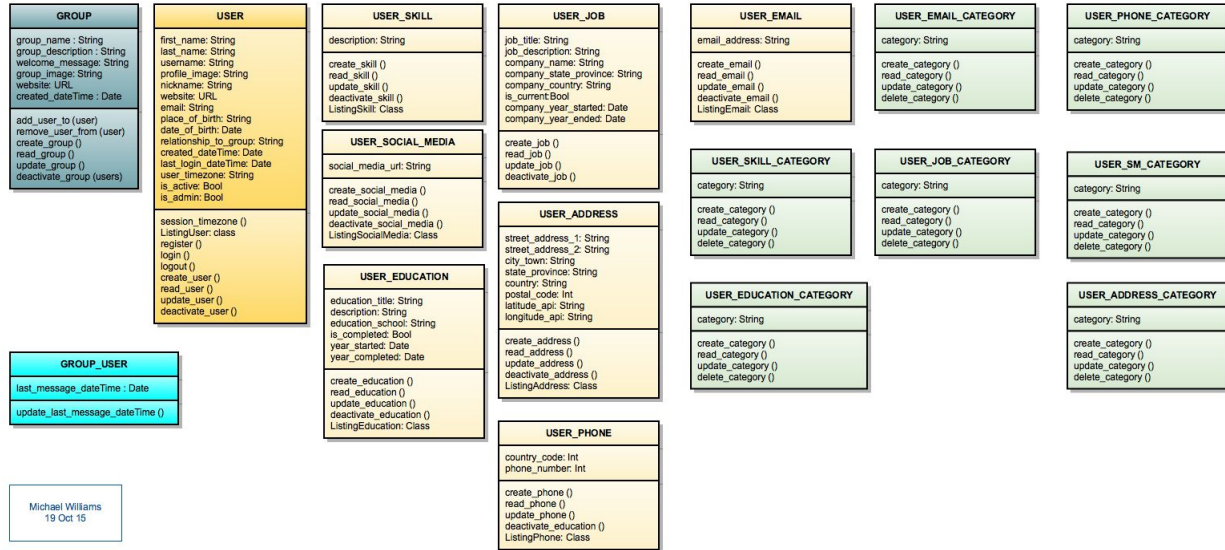
Analyze "Other" category selections to expand the categories lists (i.e. When users select other, this most likely means a category was not available. Analyze the descriptions for the "Others" and add new categories).

Mobile web application.

ER Diagram

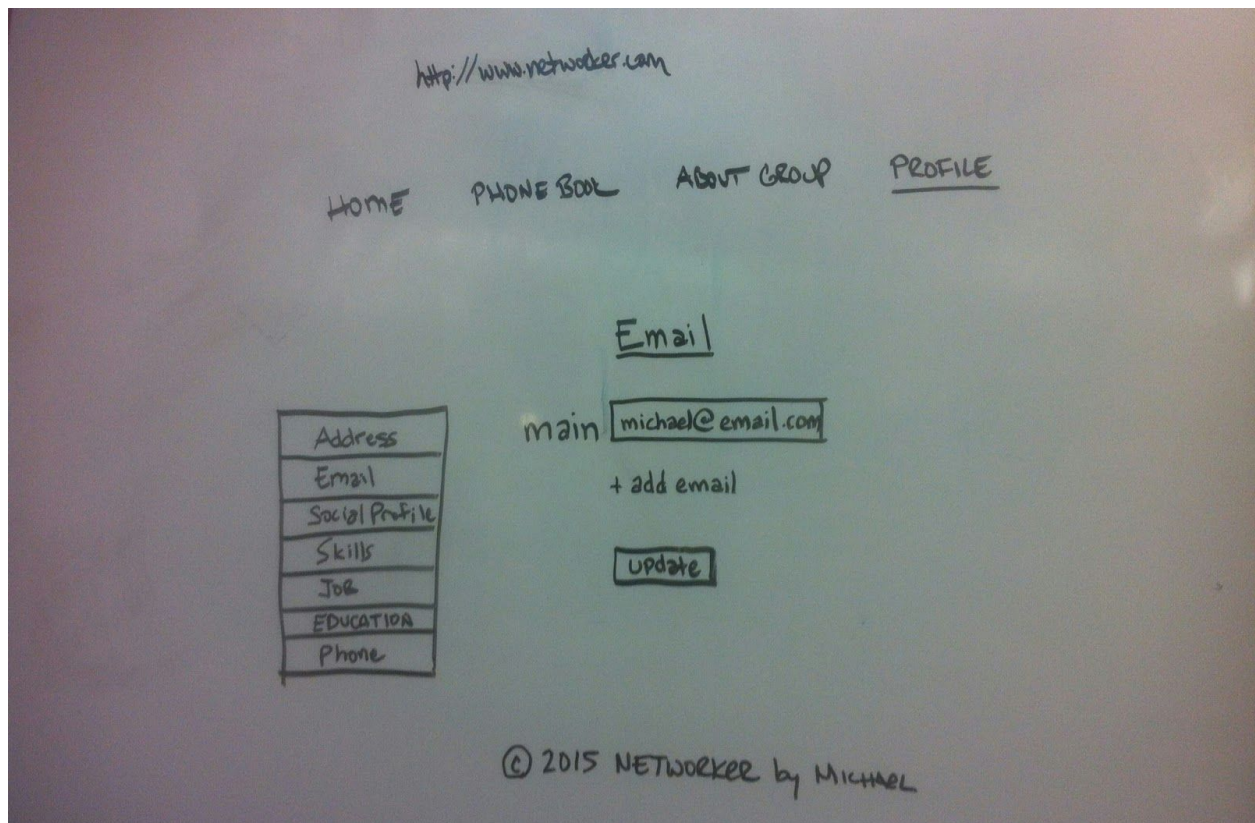


UML Diagram



Wireframes

User Update Profile



Product Backlog

Product Backlog

- Groups
- Users
- Phone Book
- Map
- Pie Charts
- Message System

Sprint Backlog *Not listed in development order*

User Template *from the actual User's login*

This template builds or updates a user profile. If a user has never built a profile, the user will see this template. Otherwise, regardless of the group, the user will see the Select Group Template. The user is required to fulfill the username, password, and email fields.

- Create a user profile model
- Input data to create a user through admin
- Create url, view, and template / {{User}} Profile /
- Output the data to the template (test purposes)
- Create form with inputs and labels for profile fields in the middle column
- Populate the data into the input fields
- Create "Update" button
- Create permissions for each user for viewing and updating
- Streamline profile view for users
- Only allow for a user to see the affiliated groups
- Create a two-column layout. A third column or the right column would provide analytics for profile completion (i.e. The user's profile is 10% complete of 100%).
- Output categories for the profile in the left column
- Route to **Select Group Template**

User Template *from another User's login*

This template is viewable by other users, not to be modified

- Create url, view, and template / {{User}} Profile /
- Output the data to the template
- Create permissions for each user for viewing and updating
- Develop styles

Base.html Template

This is the inheritable base template for the site

- Create header with inheritable title, css links
- Create static footer with inheritable js links
- Create static navigation with About, Projects, Phone Book, and Profile
- Create inheritable content area

Select Group Template

This template selects a group. A current and new user will see this template

- Create url, view, and route to `/ Select Group /`
- Output the data to the template (test purposes)
- Create form with dropdown for available Group(s) and “go to” button
- Create “Create Group” link
- Route to **Group Template**

Group Template

*This template builds or updates a group profile. If the user is the originator of the group, the user will be assigned the rights to be the administrator. The user will have the permissions to assign or reassign privileges to other members in the group. Depending on user's `welcome_page_is_active` settings, (i.e. the user is only modifying the group settings) determines whether the user will route to the **Select Group Welcome Page Template***

- Create a group profile model
- Input data to create a group through admin
- Create url, view, and template `/ Group Profile /`
- Output the data to the template (test purposes)
- Create form with inputs and labels for each of the group fields
- Populate the data into the input fields
- Create “Update” button
- Route to **Select Group Welcome Page Template**
- Otherwise, route to **About Template**

Group Welcome Page *Active* Template

This template defines the user's group affiliation and about the group

- Create url, view, and template `/ Welcome /`
- Output the data to the template (test purposes)
- Create form with inputs and labels for name, description, and welcome message
- Create checkbox to “Disable Welcome Message”
- Create button to “Continue”
- Populate the data into the input fields
- Provide options for the user to disable message or go to application

Group Welcome Page *Disable* Modal `/ Disable /`

This dialog box/popup window will allow for the user to disable the group's welcome page

- Create modal
- Provide instructions on how to enable welcome page
- Create form with buttons to “Confirm” and “Continue”

About Template

This template provides an interactive map with markers of each member's location. The markers provide info windows to access the selected member's profile page. Other features include analytics (e.g. Pie Charts) defining the skills, jobs, and education summary for the group.

- Create url, view, and template / Map / extending base.html
- Google Maps API
- Mock User API
- Assign mock users to groups
- Test Phone Book
- Test Google Maps API
- Build markers for Map API

Phone Book Template

This template an alphabetical listing of the members of the group

- Create url, view, and template / Phone Book / extending base.html
- Output the data to the template (test purposes) (i.e. alphabetize may be needed)
- Subset the users by each letter in the alphabet
- Determine the letters of the alphabet not relevant to the user group and hide
- Create three column template
- Create alpha characters anchors for the needed user names in the left column
- Create vertical pagination for alphabet in the right column
- Populate linkable user names under the relevant alpha character anchors in the middle column.

URL <http://www.networker.com>

This template is the login page or first page a user will see after going to the URL

- Create url, view, and template / URL /
- Create form with inputs and labels for username and password
- Create sign-in button
- Create “Forgot Password” link
- Route to **Forgot Password Template**

Forgot Password Template

This template changes a user's password

- Create url, view, and template / Create Password /
- Create form with inputs and labels for old pw, new pw, confirm pw
- Create Confirm button
- Route to **URL** <http://www.networker.com>