Sunshare

Overview

Sunshare is a web application that allows you to connect with others in your neighborhood who grow fruits, vegetables and herbs. Growers, as they would be called in the app, can trade with other individual growers and set up local meetups, called Sunshares in the app, to share and encourage others to grow more items. Many people who grow these items in their backyard tend to have a surplus when the items come in. Sunshare gives them an opportunity to share produce amongst the community and get back other items they could use. Growers would also be able to post updates on their gardens, display what they are growing and notify other growers if they have a surplus and are looking for a partner to exchange items with outside of the traditional Sunshare meetups. Sunshare would also provide inspiration and encouragement for people in the community to grow their own food, and collaborate on what to grow to maximize the sharing potential of the community, which could cut down on wasted produce that hobbiest grow and don't have the capacity to eat themselves.

Growers can search by zip code and have a map display pinpoints of other users and what they are currently growing. Sunshares would also display on the map, so growers using the site can discover them and navigate to the details of that sunshare and decide if they want to join that particular group.

Posts would work like a traditional social media application. Growers can see posts by those they follow and new Sunshare notifications would post to all users in the same zip code as the Sunshare Gathering, the name for the events for each Sunshare, takes place. This way it allows users to more easily discover new Sunshares without having to actively search for them.

Other web applications have similar ideas, but are more focused on farmers and their ability to reach people to sell to. What distinguishes Sunshare from those products is the focus on the hobbyist gardener. Those not looking to profit off their garden, but are looking for a way to handle the excess items their garden or fruit bearing trees provide. Focus is on community, sharing and encouraging others to grow more of the foods they eat daily.

Components and Screens with Functionality Descriptions

- Home screen
    - Contains
        - Login
        - Signup
        - About
    - Functionality
        - Button takes user to signup page
        - Button takes user to login page

- Signup screen
    - Container
        - Username input
        - Email input
        - Password input
        - Submit button
    - Functionality
        - Creates user in db with
            - Username
            - Email
            - Password
            - objectId
        - Redirects to Discover Page
- Navigation for App
    - Contains
        - Posts
        - Create Post
        - Discover
        - Profile
        - Log Out
    - Functionality
        - Posts clicked
            - Takes user to Posts page
        - Create Post
            - Modal displays with textarea and Post button
            - User posts
                - Insert into db
                    - User object
                        - Posts Object
                            - Post text
                            - ObjectId
            - Modal disappears
        - Discover
            - Takes user to the Discover Page
        - Profile
            - Takes user to their Profile Page
        - Log Out
            - Logs user out of app and returns to home page
- Discover Page
    - Contains
        - Modal telling user to add their location and what they're growing so it displays for others to discover
        - Zipcode input search below the navigation

    - Map displays grower and Sunshare icons
      - Grower icon
        - Once clicked
          - Displays username of grower
          - What they are growing
          - Button to follow them if not already following them that toggles to unfollow when clicked to follow
      - Sunshare icon
        - Once clicked
          - Name of sunshare
          - Organizer of sunshare
          - Items that will be there
          - Items being requested
          - Button to be a grower of the sunshare
  - Functionality
    - Dismiss modal that first appears if a user has just signed up
    - Search button clicked
      - Return search results to page
    - Follow User button clicked
      - Adds user that was followed to array of Following in db for the current user and removes if unfollow
      - Adds user that followed to the array of Followers in the db for that user and removes if unfollow
    - Add Grower button clicked
      - Adds grower to Sunshare db array of growers
      - Modal appears stating the grower has been added to the Sunshare
- Profile page
  - Contains
    - Avatar
    - Username
    - Edit Profile button (only appears if user on own profile page)
    - Location (city, state)
    - Sunshares (user created Sunshares I’m a part of)
    - Growing (items user is currently growing)
    - Followers
    - Following
    - Create Sunshare button (for users who view their page only)
    - Follow / unfollow button
    - Users’ posts thread
      - Avatar
      - Username
      - Post text

- Reply button for each post
- Like button for each post
- Functionality
  - Need to know if the user viewing the profile is the user
  - Edit Profile button click
    - Redirects user to the profile edit page
  - Click on Sunshares to take user to a list page of Sunshares the grower is a part of
  - Click on Growing to take user to list page of items Grower is growing
  - Click on Followers to take user to a list page of people who follow that Grower
  - Click on Following to take user to a list page of items Grower is growing
  - Create a Sunshare button is visible only if grower is viewing their profile page that takes them to the create Sunshare page
  - Follow / Unfollow button
    - Adds user that was followed to array of Following in db for the current user and removes if unfollow
    - Adds user that followed to the array of Followers in the db for that user and removes if unfollow
    - spawns a modal telling the user they successfully followed or unfollowed that grower
    - Toggles to the other text
  - Loads 10 posts and loads more once the page is scrolled to the bottom
  - Reply button on post
    - brings up modal with input text and button to submit reply
    - Clicking anywhere away from button eliminates modal
    - Once submit reply button is pressed
      - Post entered into db with
        - Replies object with text of reply, user objectId that replied
      - Modal disappears
      - Reply displays below post
  - Like button on post clicked
    - Db updated with
      - Post object
        - Likes Object
          - Number increased by 1
          - objectId of user
    - Like icon changes colors to yellow to indicate user has liked the post
  - Like button on post clicked after it was already liked
    - DB updated with
      - Post object

          - Like Object
            - Number decreased by 1
            - objectId of user removed
      - Like icon changes back to gray
- Edit Profile Page
  - Contains
    - Avatar
    - Username in input field
    - Emai in input field
    - Address in input fields
    - Password in input field
    - Button to update user
  - Functionality
    - Button to update user is clicked
      - Saves info to db for that user
      - Modal popup with successful save to db disappears in 2 seconds
- Login page
  - Contains
    - Logo
    - Email input
    - Password input
    - Button to log in
  - Functionality
    - Button to log in clicked
      - Logs user in
      - Directs them to the Posts page
- Posts page
  - Contains
    - Post thread
      - Avatar
      - Username
      - Post text
      - Reply button for each post
      - Like button for each post
  - Functionality
    - Loads 10 posts and loads more once the page is scrolled to the bottom
    - Clicking on specific post
      - Redirects user to the Post page for that specific post
    - Reply button on post
      - brings up modal with input text and button to submit reply
      - Clicking anywhere away from button eliminates modal
      - Once submit reply button is pressed
        - Post entered into db with

          - Replies object with text of reply, user objectId that replied
        - Modal disappears
        - Reply displays below post
    - Like button on post clicked
      - Db updated with
        - Post object
          - Likes Object
            - Number increased by 1
            - objectId of user
      - Like icon changes colors to yellow to indicate user has liked the post
    - Like button on post clicked after it was already liked
      - DB updated with
        - Post object
          - Like Object
            - Number decreased by 1
            - objectId of user removed
      - Like icon changes back to gray
- Specific Post Page
  - Contains
    - Avatar
    - Username
    - Post content
    - Reply button
    - Like button
    - List of replies to that post
      - Username
      - Content
  - Functionality
    - Reply and LIke buttons have same functionality as post page and profile page where posts are listed
- New Sunshare page
  - Contains
    - Sunshare icon
    - Name of Sunshare input
    - About the Sunshare textarea
    - Location inputs
    - Create Sunshare button
  - Functionality
    - Create Sunshare button click
      - Creates sunshare in db with
        - Sunshare details

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  -
    -
      -
        - objectId of user that created Sunshare
      - Creates automatic post by user displaying the Sunshare details on the post page for all followers and anyone with the same zip code
      - Redirects to that particular Sunshare page
- Existing Sunshare Page
  - Contains
    - Sunshare icon
    - Name of Sunshare
    - Edit Sunshare button (only appears if user is one who created the Sunshare)
    - About the Sunshare
    - Location of Sunshare
    - Organizer and their username who created the Sunshare
    - Growers: with a number that acts as a link to see all growers for the Sunshare
    - Button that is visible only to the creator that allows new Sunshare Gathering to be created
    - Button to add yourself as a grower for the Sunshare
    - List of upcoming and previous Sunshare gatherings this list is clickable
      - Date
      - Time
      - List of items that growers are bringing
  - Functionality
    - Convert dateAndTime from db into readable format to display
    - Need to know if the user viewing page is the one who created the Sunshare
    - Edit Sunshare button clicked
      - Takes user to the edit Sunshare page
    - Username clicked
      - Takes user to the username that was clicked to view the profile of the person who created the Sunshare
    - Growers number clicked
      - Takes user to list of growers who are part of the Sunshare
    - New Gathering button clicked
      - Takes the user to the new gathering create page
    - Add Grower button clicked
      - Adds grower to Sunshare db with
        - User objectId
      - Modal appears stating the grower has been added to the Sunshare
    - List all Gatherings for the Sunshare
      - If Sunshare is passed the current date, gray out so not clickable
    - Sunshare Gathering clicked

            - Takes user to the gathering page for that Sunshare
- Existing Sunshare page for user that created it (edit page)
    - Contains
        - Name of the Sunshare in input
        - About the Sunshare in textarea
        - Location in inputs
        - Button to update Sunshare
    - Functionality
        - Update button clicked
            - Send update to db
            - Redirect user to the Sunshare page with updated info
- New Gathering Sunshare Page (only available to the creator of the Sunshare)
    - Contains
        - Date input (datepicker)
        - Time inputs
        - Button to create Gathering
    - Functionality
        - Button to create Gathering clicked
            - Convert date and time to integer with moments.js
            - Gathering created in db under the Sunshare id with
                - dateAndTime
                - objectId of Gathering
            - Redirect user to the Gathering page
- Gathering Page
    - Contains
        - Name of Sunshare
        - Date
        - Edit button (displays only to the user who created the Gathering
        - Time
        - Location
        - Number of Growers attending
        - Button that display I'm Going or Can't Make It
        - Items in user's Rucksack (what they will be bringing to the Sunshare)
        - Button to update Rucksack
        - List of Items with count that will be there
        - Requested items with count
    - Functionality
        - Need to know if user is the one who created the Gathering
        - Convert dateAndTime from db into readable format to display
        - Edit Gathering button clicked
            - Redirects user to the the edit Gathering Page
        - Need to know if user is already attending the Gathering

- If they are it needs to display the items in their Rucksack, if not Rucksack needs to display as empty (frown face from bootstrap)
- Update Rucksack button clicked
  - Redirects user to the Edit Rucksack page
- I’m Going button clicked
  - Sends info to db
    - objectId of user to the growers of that Gathering
  - Modal displays saying they have been added to the Gathering
  - I’m Going button changes text to Can’t Make It
- Can’t Make It button clicked
  - Sends info to db
    - objectId of user removed from that Gathering
  - Modal displays saying they have been removed from the Gathering
  - Can’t Make It button changes text to I’m Going
- Display items Growers are bringing
- Display items Growers are requesting others to bring

- Edit Gathering Page
  - Contains
    - Name of Sunshare
    - Date in input field (date picker)
    - Time in input fields
    - Button to update Gathering
  - Functionality
    - Button to update Gathering clicked
      - Convert date and time to integer to use with moments.js
      - Updates sent to db
- Edit Rucksack Page
  - Contains
    - Username
    - Input to add items to the list
    - Input with how many of that item to add
    - Button to add item
    - List of items in Rucksack
    - Input to add items being requested
    - Input with how many of that item is being requested
    - List of items that have been requested
  - Functionality
    - Add items in Rucksack to the db with
      - Gathering object
        - Items being brought by growers
      - User object
        - Gatherings attending

  - objectId of gathering
  - Items being brought
- Item and count appears in the list below
- Add items being requested to the db with
  - Gathering Object
    - Items in requested items section for that gathering updated
- Item and count appear in the list below

Folder Structure

- App
  - Components
    - Main.js
    - Home.js
    - HomeNav.js
    - AppNav.js
    - Footer.js
    - Signup.js
    - Login.js
    - Profile.js
    - ProfileEdit.js
    - List.js
    - Discover.js
    - Posts.js (this can go in Profile.js as well)
    - Post.js
      - Need to set default state to false for details that we only display the count of replies and likes and not the entire reply tree as we would if details were set to true
    - CreatePostReply.js
    - CreateEditSunshare.js
    - CreateEditGathering.js
    - Gathering.js
      - Same as Post.js so that I either display some minor details or all the info
    - Rucksack.js
  - Containers (logic for my components so they can remain stateless)
    - SignupContainer.js
    - LoginContainer.js
    - ProfileContainer.js
    - ProfileEditContainer.js

        - ListContainer.js
        - DiscoverContainer.js
        - PostContainer.js
        - CreatePostReplyContainer.js
        - CreateEditSunshareContainer.js
        - CreateEditGatheringContainer.js
        - GatheringContainer.js
        - RucksackContainer.js
    - Config
        - routes.js (react router and path logic for my app)
    - utils
        - Helpers.js (calls to db)
    - App.js (where react-dom lives)
    - public
        - Index.html
        - bundle.js
        - main.css
- Models
    - User.js
    - Sunshare.js
    - Gathering.js
- Controller
    - html-routes,js
- .gitignore
- package.json
- server.js
- webpack.config.js

DB Collections

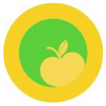
- Users (array of objects)
    - objectId (integer)
    - Username (string)
    - Email (string)
    - Password (string)
    - Sunshares (array of objects)
        - objectId (integer)
        - Name (string)
    - Gatherings objectId (array of integers)
    - Rucksack (array of objects)
        - objectId (integer)
        - Gathering (object)

      - Gathering objectId (int)
      - Items (array of objects)
        - objectId (int)
        - Name (string)
        - Count (int)
  - Posts (array of objects)
    - objectId (integer)
    - Content (string)
    - Likes (integer)
    - Replies (array of objects)
      - Reply objectId
      - User’s objectId that replied (int)
      - Reply (string)
- Sunshares (array of objects)
  - objectId (integer)
  - Name (string)
  - About (string)
  - Address1 (string)
  - City (string)
  - State (string)
  - Zip (string)
  - CreatedBy - objectId of user that created the Sunshare (integer)
  - Growers (array of integers)
- Gatherings (array of objects)
  - objectId (integer)
  - Sunshare ObjectId (integer)
  - Growers objectId (array of integers)
  - DateAndTime (integer)
  - ItemsBeingBrought objectId of items (array of integers)
  - ItemsWanted objectId of items wanted (array of integers)

Design Assets

- Color pallette
  - 🟨🟦⬜🟩⬛
  - Yellow for logo and main color choices
  - Blue for call to action buttons
  - Light Gray for main background
  - Green for other accents
  - Charcoal for font

- Logo
    -

- Icons
    - Like icon
        -
    - Sunshare icon (for map and for icon at the top of the Sunshare page)
        - 
    - Loading Icon
        - Codepen
        - http://codepen.io/rob_bethencourt/pen/pbBpXE
    - Rucksack
        - Not sure I'll need one just yet
    - Grower (for map)
        -

Fonts

- Headings
    - Domine
        - https://fonts.google.com/specimen/Domine?authuser=1&category=Serif,Sans+Serif,Handwriting&query=domine&selection.family=Domine
- Body copy
    - Arial
- Special Headings and other unique font
    - Homemade Apple
        - https://fonts.google.com/specimen/Homemade+Apple?authuser=1&category=Handwriting&selection.family=Domine