REQUIREMENTS AND DESIGN DOCUMENT

1. PROJECT OVERVIEW

This application is intended for hosting the information about public outdoor activities taking place in Charlotte where people can come together and organize events. This application caters to the following features:
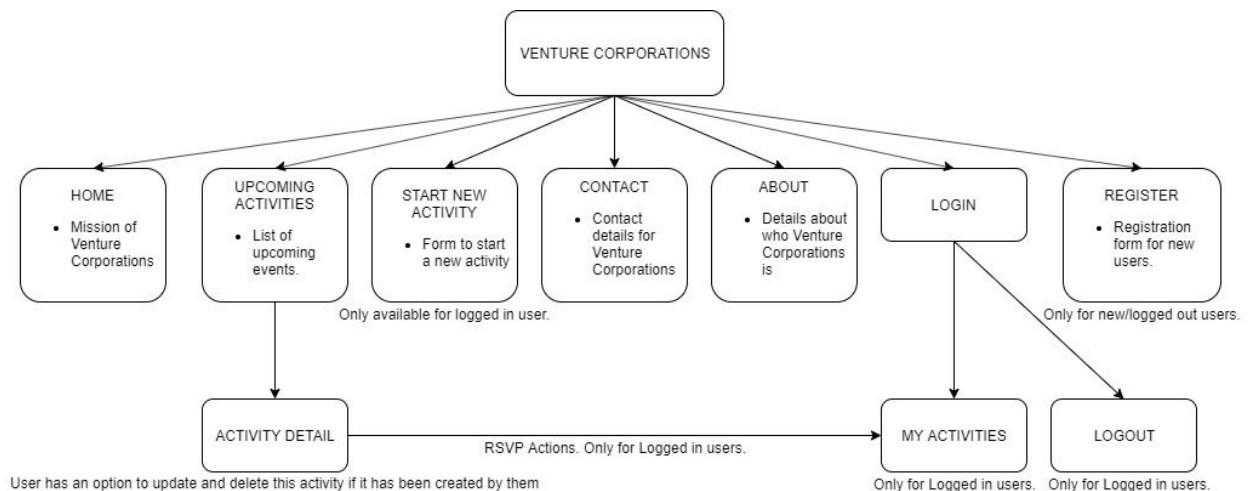
1. Every user can check outdoor activities that have been going around in Charlotte. In order to RSVP to any of these activities, the user first has to register to the application by creating a free account which includes their information.
2. A registered user:
   a. Can save an activity and its RSVP.
   b. View/edit the RSVP of their saved activities.
   c. Add new activities with their respective RSVPs.
   d. Delete an activity from their saved activities.
   e. Clear all activities off their profile and start afresh.
   f. Update/Delete the activities that they created.

2. SITE MAP

The site map below describes the application briefly.

3. PAGE DESIGN

The user can navigate through all the pages using the navigation bar which is available on top for all the pages. A user with no account will be able to see LOGIN and REGISTER links. A logged in user would have access to his profile displaying his activities and the LOGOUT link.

A logged in user will be able to see his name displayed on the page indicating user session. The individual pages will incorporate this user name after user log in.

a. HOME: Landing Page (Homepage)
   - This page is the landing page.
   - This is available to all the users (registered or unregistered)
   - Displays the static details of Venture Corp's mission
   - This is a static page. No validations are present.
   - No buttons or hyperlink.

b. UPCOMING ACTIVITIES
   - This page shows the upcoming activities in Charlotte
   - This is available to all the users (registered or unregistered)
   - Displays the activities that are to be scheduled.
   - This page contains links which renders the individual activity page and shows the activity details.
   - Hyperlinks for activities.

c. ACTIVITY DETAIL
   - This is the activity detail page.
   - This is available to all the users (registered or unregistered) with limited functionality for unregistered/unlogged users.
   - Displays the details of the particular activity selected from the upcoming activities page.
   - No validations are present.
   - RSVP buttons of Yes, No and Maybe are available.
     1. A user not logged in would be navigated to the login page when they try to click any of the buttons.
     2. A logged in user can use these buttons to add this activity to their profile with the desired RSVP.
     3. If this activity has been created by the same logged in user, then they will have options to update or delete this activity.

d. START NEW ACTIVITY
   - This page is for starting a new activity.

- This is available only to the logged in users (who are by default registered).
- Displays the form to fill in details about a new activity.
- Input field validations are present to ensure proper data gets recorded in the database.
    1. Topic: Only alphabets, must not be empty.
    2. Name: Must not be empty
    3. Host: Must not be empty
    4. Date: Must not be empty. Only future dates.
    5. Time: Must not be empty
    6. Location: Must not be empty
    7. Details: Must not be empty
- On submission, the new activity details are validated and listed on the upcoming activities.
- Form submit button.

e. CONTACT
- This page is the contact page.
- This is available to all the users (registered or unregistered)
- Displays the static contact details of Venture Corp's mission
- This is a static page. No validations are present.
- No buttons or hyperlink.

f. ABOUT
- This page is the About page.
- This is available to all the users (registered or unregistered)
- Displays the details of Venture Corp's mission
- This is a static page. No validations are present.
- No buttons or hyperlink.

g. LOGIN
- This page is the login page.
- This is available to all the users (registered or unregistered)
- Displays the form to login to the application.
- A user will be logged in only if their login credentials match.
    1. Username: Takes only a valid email address
    2. Password: Takes a string of minimum 6 characters.
- On successful login the user is displayed the my activities page.

h. REGISTER
- This page is the registration page.
- This is available to all the users (registered or unregistered)
- Displays registration form for the application.

- Input field validations are present to ensure correct user data gets populated to the database
    1. Name: Should only be alphabets and not empty
    2. Email ID: should be a valid email address and not empty
    3. Password: Must be of minimum length 6 and not empty
    4. Address: Must not be empty
    5. City: must be alphabets and not empty
    6. State: must not be empty
    7. Zipcode: Must be a number and not empty
    8. Country: Must not be empty
- Submit button to register the user and log into their profile. Renders My activities

i. MY ACTIVITIES
- This page is the user profile page.
- This is available only to the registered logged in users.
- Displays the profile of the user. Shows the activities that the user has RSVPed to. Initially after user has been registered, this is initialized to be empty.
- No validations are present.
- Buttons to update the rsvp or delete the activity from the profile are provided. A button to clear the profile has also been provided.

j. LOGOUT
- Renders the index page

4. ER DIAGRAM

The following is the ER diagram of the VentureCorpDB database.

Activities
- activity_id: String
- activity_name: String
- activity_topic: String
- activity_date: String
- activity_time: String
- activity_details: String
- activity_loc: String
- activity_host: String
- activity_host_id: String

UserProfile
- user_id: String
- first_name: String
- last_name: String
- activity_rsvp:{

  activity:
  Activities
  rsvp: String
  }

activity in activity_rsvp is mapped an Activities object

UserCreds
- user_id: String
- first_name: String
- last_name: String
- address_1: String
- address_2: String
- city: String
- state:String
- zipcode:String
- country: String
- password: {

  salt: String,
  passwordHash: String
  }