Run Anywhere Pattern and Structures

FUNCTIONAL SPECIFICATION

- Authorize:
  - Login/logout
  - Signup
  - Guest

- Profile:
  - Entering personal information
    - Name, profile picture, phone number, email
  - View information
  - Editing profile settings

    Runner Information (separate area with personal stats)
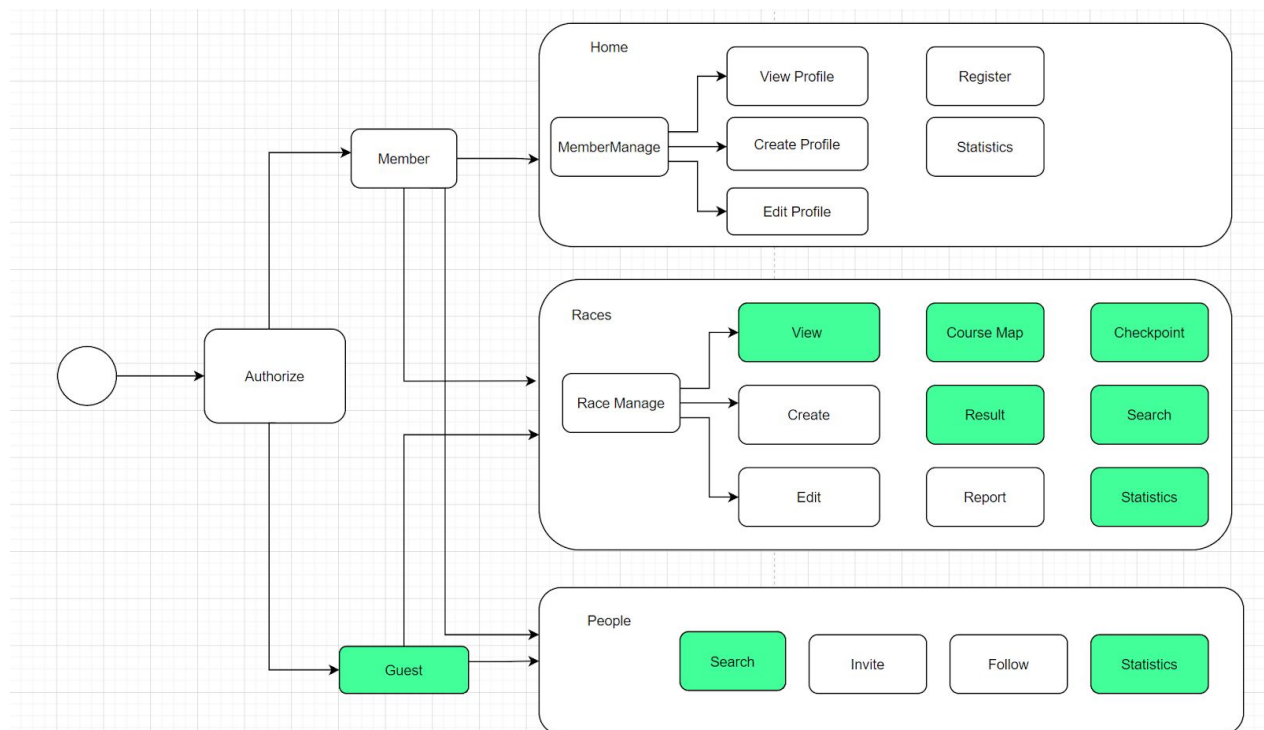 - Goals for races
  - Display history of past runs
    - Date, time, location, distance
    - Log new race stats manually
  - Overall running statistics (graph)
    - Average time, distance, speed, steps

- People:
  - Find people (map function) with filter
    - Location (distance)
    - Gender
    - Ages
    - Races
    - Result
  - Follow people
    - See the teams they are in (name, members, location)
    - Ask to join someone's race

- Races:
  - Make a new race
    - Set rules (Max or min team size)
    - Display members
    - Date/ Time
    - Starting/ ending point

- Stop locations
- Checkpoints (people how have entered code)
- Record results
  - Invite people to race (public/ private option)
  - Show race results
    - Participants results
    - Top runner
    - Race length
    - data analysis
      - age group ranking
      - overall ranking
      - finish rate
      - avg time of finish etc
    - send email/text when he/she crosses the finish line
  - Find races (map function) with filter
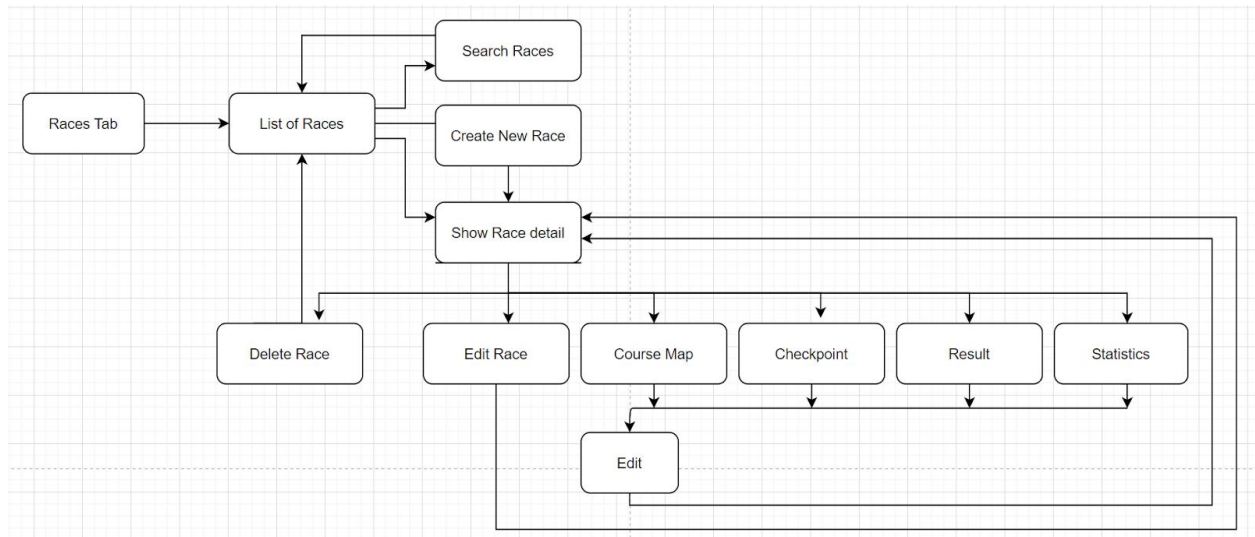   - Location (distance)
    - Date/ Time
    - Race length

App Structure

Notes: Guest only can access the features in green color, and Member can access all features. Only the race creator can edit race, set course map and checkpoint, and upload results.

UI Flow Diagram

● Race Tab

UI Sketches and Sequence

Theme:
> Color Palette:
>> Logo: Blue (21E3EC, 100%) and Green (1BDD32, 100%) and black (000000, 100%)
>> Background: (1BDD32, 70%)
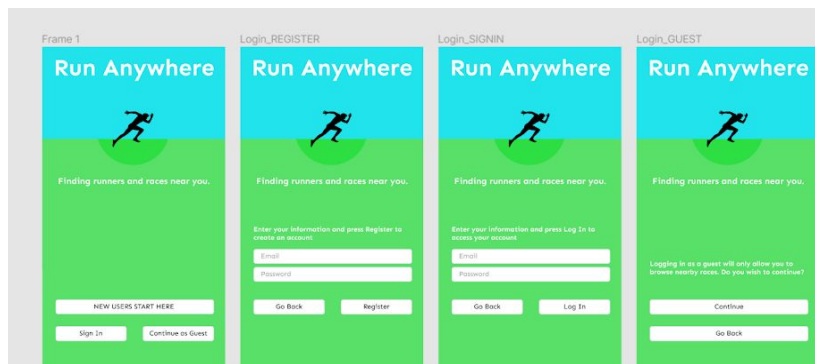>> Box Outline: Charcoal (274156, 20%)
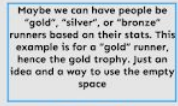>> Fonts: Grey (000000, 40%) and Black (000000, 100%), and White (FFFFFF, 100%)
> Font:
>> Sen 48 (Header), 18 (Subheader), 14 (Body)

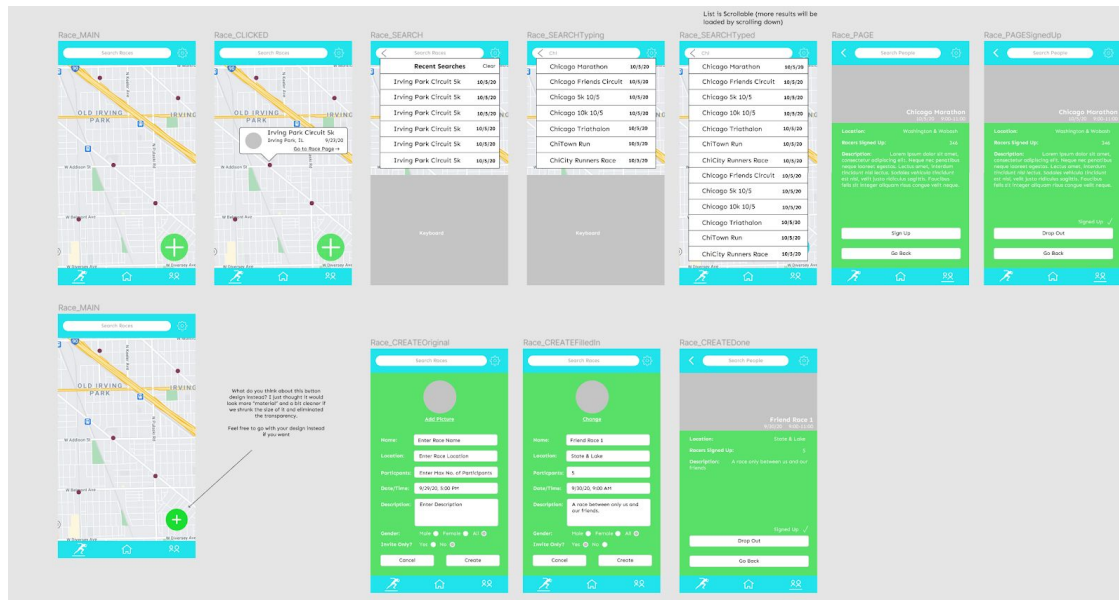**UI and User Navigation Patterns:**
Login:

After user login, show the Home Views :

Click the Tab, show the People Views:

Click the ![icon] Tab, show the Race Views:

Design Note

- Cordova Plugins: FILE, GEOLOCATION, CAMERA, MAP
- Data Storage:
  - Remote: User profile,etc
  - Local: Course route File(.GPX)
  - App side: IndexedDB
  - Server side: MongoDb