YouthComputing
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Open Challenges

Challenge One
Event Check In System

Submission Deadline: May 8th, 2020, 11:59 PM MST
Difficulty: Easy
Type: Web Application

01-05-2020

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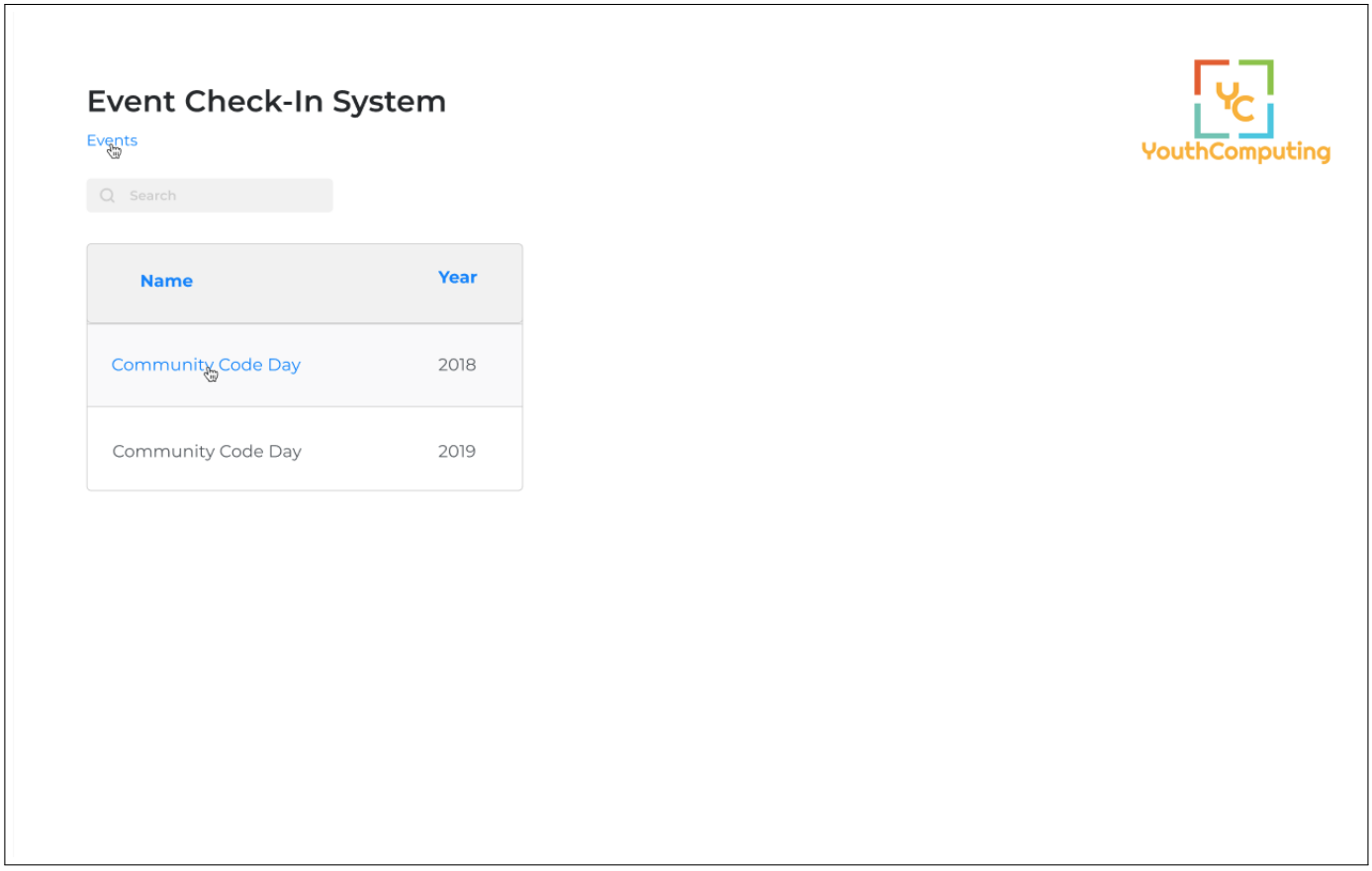
1. Description

The YouthComputing events team is looking to streamline their event check in system. They have a database, where once people register for the event, the attendee name and email is added. During the event, the events team would like to have a web application where they can pick a specific event and see the full list of attendees. The events team should also be able to check in a user, and also check out a user in case they accidently checked someone in. Since an event may have a lot of attendees, the list of attendees should be searchable and paginated.

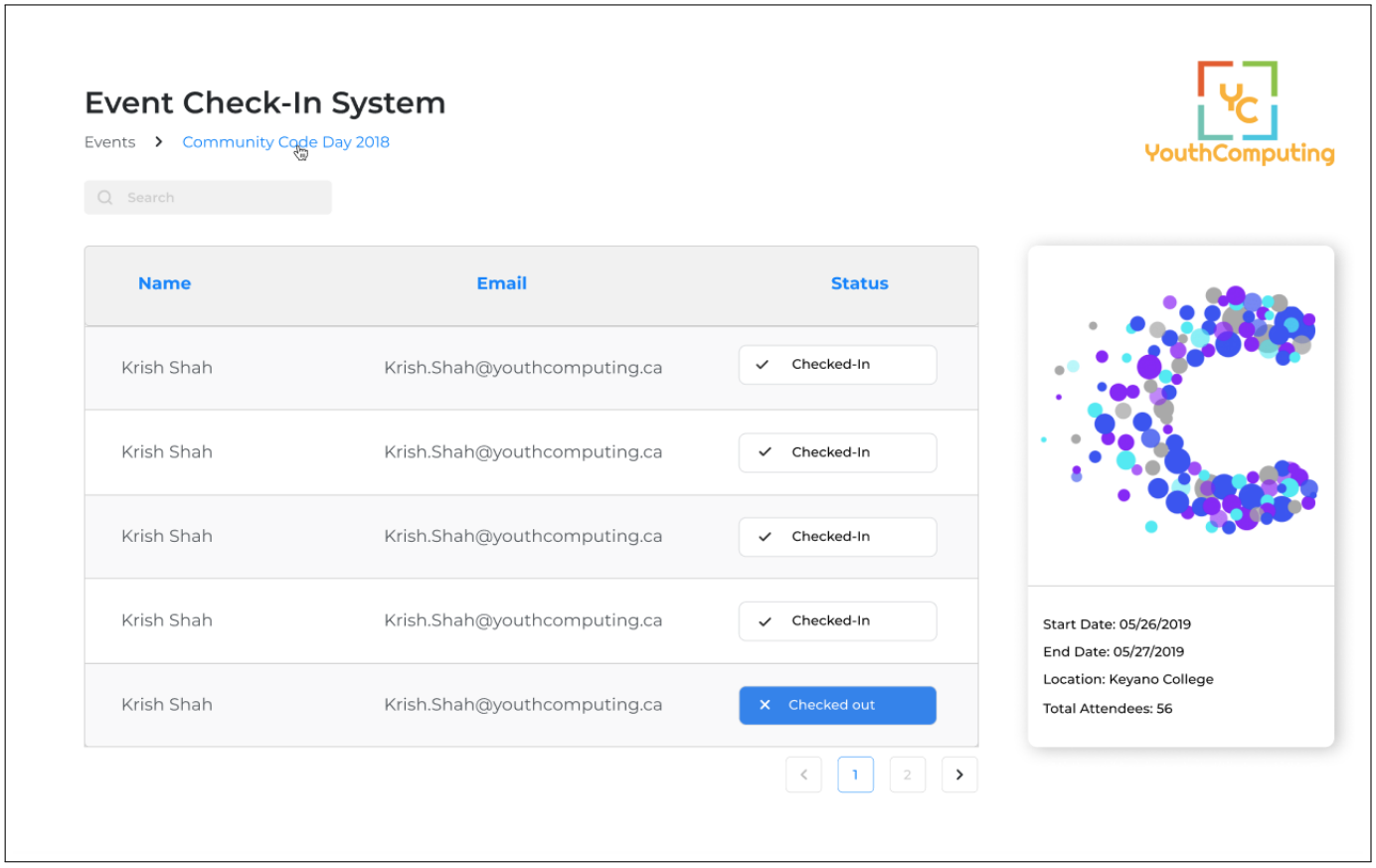
2. Design Requirement

The web application should have the following two pages:

2.1 Home



2.2 Event


Event Check-In System
Events
Community Code Day 2018
Search
YouthComputing
Name
Email
Status
Krish Shah
Krish.Shah@youthcomputing.ca
Checked-In
Krish Shah
Krish.Shah@youthcomputing.ca
Checked-In
Krish Shah
Krish.Shah@youthcomputing.ca
Checked-In
Krish Shah
Krish.Shah@youthcomputing.ca
Checked-In
Krish Shah
Krish.Shah@youthcomputing.ca
Checked out
1
2
Start Date: 05/26/2019
End Date: 05/27/2019
Location: Keyano College
Total Attendees: 56

3. Documentation

The YC Events API has been made available to you. Below are the following endpoints and corresponding HTTP methods.

To view JSON data in a nice format in your browser, download this Chrome Extension:
`https://chrome.google.com/webstore/detail/json-formatter/bcjindcccaagfpapjjmafapmmgkkhgoa`

3.1 GET/ api.youthcomputing.ca/events

Returns a list of events.
Sample response: `https://api.youthcomputing.ca/events`


```
{
  "events": [
    {
      "name": "ccd/2018",
      "label": "Community Code Day 2018"
    },
    {
      "name": "ccd/2019",
      "label": "Community Code Day 2019"
    }
  ]
}
```


3.2 GET/ api.youthcomputing.ca/events/event-id

Returns a list of years that the event has been run.
Sample response: `https://api.youthcomputing.ca/events/ccd`

```
{
  "years": [
    "2018",
    "2019"
  ]
}
```


3.3 GET/ api.youthcomputing.ca/events/event-id/year

Returns data about the event. Specifically, will return the event name, year, location, start and end date, logo, and a list of attendees. Each attendee has a name, email **(not real email)**, user id, and a boolean representing if they're checked in or not at the event.
Sample response: `https://api.youthcomputing.ca/events/ccd/2018`


```
{
  "info": {
    "name": "Community Code Day",
    "start-date": {
      "_seconds": 1527343200,
      "_nanoseconds": 0
    },
    "event-logo": "https://youthcomputing.ca/images/event-logos/ccd-2018.png",
    "location": "Keyano College",
    "end-date": {
      "_seconds": 1527462000,
      "_nanoseconds": 0
    },
    "year": "2018"
  },
  "attendees": [
    {
      "name": "Krish Shah",
      "email": "Krish.Shah@youthcomputing.ca",
      "id": 0,
      "checkedIn": false
    },
```

3.4 PUT/ api.youthcomputing.ca/events/event-id/year/checkin

Will set checkedIn of the specified user to TRUE. If the user is already checked in, nothing will be done.
Required body (as JSON):

```
{
"userId": 0
}
```

3.5 PUT/ api.youthcomputing.ca/events/event-id/year/checkout

Will set checkedIn of the specified user to FALSE. If the user is already checked out, nothing will be done.
Required body (as JSON):

```
  {
  "userId": 0
  }
```

4. Recommended Technologies

For making the web application, the front end library React is recommended:

- `https://reactjs.org/`
- `https://reactjs.org/docs/create-a-new-react-app.html`

Some UI component libraries that you may find useful:

- `https://ant.design/`
- `https://reactstrap.github.io/`
- `https://react.semantic-ui.com/`

For making API calls using Javascript, Fetch is recommended:

- `https://developer.mozilla.org/en-US/docs/Web/API/Fetch_API/Using_Fetch`

If you'd like to deploy your web application after you've finished making it, Firebase offers free hosting:

- `https://firebase.google.com/docs/hosting`

5. Judging Criteria

Participants can choose to participate individually or in groups. After the submission deadline, the submission form will be closed. A winner will be chosen and they will be notified by email if they'd like their picture and application to be shared on YouthComputing Social Media. There are no other prizes awarded.

The judging criteria is as follows. The app should meet the following requirements:

- User can see all events with name and year
- User can click on an event
- For each event, the user can see:
  - Event logo
  - Event name
  - Event location
  - Event year
  - Event start and end date
  - Total number of attendees
  - List of attendees
    - Attendee name
    - Attendee email
    - Attendee is checked in or not
- For each event, the user should be able to check an attendee in
- For each event, the user should be able to check an attendee out
- The user should be able to search the list of attendees by name and email
- The list of users should be paginated

Meeting all of the requirements will lead to a score of 100%. If multiple submissions meet all the requirements (i.e. score of 100%), the submission with the earliest submission date and time will be chosen as the winner.

6. Submission Guideline

All code **MUST** be submitted through a Github repository. Zip files of the code or any other means will **NOT** be accepted. If you're unfamiliar with Github, please watch the following video:

- `https://www.youtube.com/watch?v=iv8rSLsi1xo`

To submit your code once you're done, fill out the following Google Form:

- `https://forms.gle/rMphjAWBkgnWmFQn7`

You can submit multiple times, but your latest submission before the submission deadline will be considered as the final one, and the datetime stamp for your final submission will be used.

7. Remarks

If you'd like to collaborate with other people working on the challenge, we'd recommend the Fort Mac Tech Form: `https://fortmactech.com/`

If you have any questions about the challenge, reach out to us at info@youthcomputing.ca.

Good luck!