Plan

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Features:

Like what we mentioned in our Topic, we are going to design an event and location

driven web application called What's Happening. Essentially, the way this app works is that it

integrates with multiple APIs and the events people posted. In details, without signing up or

logging in, everyone is able to see a scaled local map where an event will be coming on the main

page. If the user signs in, he/she is able to post events instead of just reading events. Here is a

more detailed list of basic features and additional features:

Basic features:

1. Without register or login, anyone can view the events posted by others

2. For hosts, they can post events (requires login)

3. For people, they can resgistr events (requires login)

Additional features:

1. Bring in google map API to show the location of incoming events

2. Search for events according to event name, location, time, category.

3. Email reminder when an registered event is approaching.

4. Current weather report for a location's event.

5. User login with Facebook, Duke NetID and Google account.

Tecnologies:

In terms of the technology we are going to use. For frontend, the framework we are going to pick is Vue, since we have done the project Trello so we are pretty familiar with Vue. Moreover, we are going to use "npm webpack" template as the starting point. We want our website to be components driven. A list of technology (both frontend and backend) and list of APIs are shown below.

Frontend: Vue

Backend: Node.js, PostgreSQL

APIs:

Visualization: Google Map API,

Email: SendGrid API

Weather: Wunderground

Third party login: Facebook API, Duke NetID API, Google account login API

We want to use the idea of routing, which is to separate client side and server side. Since our project might involve some searching & matching problems, thus, we want to have those happen in the backend. Another reason of separating this is because we want to make our App both scalable and real time, thus, we couldn't afford to have our users' websites keep refreshing. Lastly, we plan to server our website with on GitHub, Duke Server, or Heroku.

Data:

Since the first stage of our app is to serve Duke community, thus, the static/initial data we are going to use is sourced from Duke Event calendar. At the very bottom of the page (http://calendar.duke.edu/), there is an URL builder (http://urlbuilder.calendar.duke.edu/). From here, we are able to retrieve the data that both happened before and in the future (in 90 days).

Here is a link if you want to take a look what the data looks like

(http://calendar.duke.edu/events/index.json?&future_days=45)

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Our dataset is downloaded and will be updated periodically from Duke Event. The format is csv. Here is a screenshot of our dataset.

| ~ | summary | start | end | description |
|---|---|---------------------|---------------------|--|
| | Exhibit: Manifest: Photographs by Wendel White | 02/17/2018 12:00 AM | 06/03/2018 12:00 AM | The Manifest portfolio consists of photo |
| | Photography Exhibition: "Red Summer" | 02/21/2018 09:00 AM | 06/02/2018 05:00 PM | "Red Summer" is a project by photogra |
| | Exhibit: The Activist Archive: SNCC Collections in the Rubenstein Library | 02/22/2018 12:00 AM | 06/17/2018 12:00 AM | The Activist Archive will displays selecti |
| | MOOC: Environmental Security & Sustaining Peace | 03/01/2018 12:00 AM | 04/26/2018 12:00 AM | Learn about the role that natural resource |
| | Duke Hospital Exhibit: Cary Photographic Artists Members' Exhibit | 03/01/2018 12:00 AM | 05/02/2018 12:00 AM | Arts & Health at Duke presents Cary Ph |
| | Exhibit: Terry Sanford: A Change Leader for Duke | 03/14/2018 12:00 AM | 08/04/2018 12:00 AM | As Duke University President from 1970 |
| | 24-Hour Name Reading Ceremony (continues) | 04/09/2018 12:00 AM | 04/09/2018 12:00 PM | Every year, the Coalition for Preserving |
| | Greek Ally Week | 04/09/2018 12:00 AM | 04/15/2018 12:00 AM | Greek Ally Week is a week dedicated to |
|) | Conquering Rody: 1/2 Day Reproductive Justice Conference | 04/09/2018 08:30 AM | 04/09/2018 12:30 PM | Conquering Rody: 1/2 Day Reproductiv |

| presenter | | | | | |
|---|--|--|--|--|--|
| culture such as diaries, slave collars, human hair, a drum, souvenirs, and other objects, some with great significance and others simply quotidian representations of daily life in the history of the African Amer | | | | | |
| olio represents the stories of various locations in the American landscape where racial violence erupted between 1917 | | | | | |
| d the only one organized and led by young people. Working alongside local people in the rural South, SNCC activists work | | | | | |
| plobal, free): Environmental Security & Sustaining Peace0x0A0x0AFor more inform Dr. Erika Weinthal | | | | | |
| Cary Photographic Artists | | | | | |
| is of his contemporaries, the exhibit explores race relations and equality, student leadership, the arts, public service, and p | | | | | |
| ducation to the Duke community in ways that are meaningful and unique. This event brings over 300 students and faculty members together to raise our voices in honor of those who lost theirs. Please jo | | | | | |
| ly 101 & 201 Training, Private Ally and LGBTQ discussion groups, a panel of LGBTQ Greek students speaking about their | | | | | |
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| ors including how to communicate your relevant skills to different types of employers.0x0A0x0A*Register by clicking More | | | | | |
| des as a leading artist with the Ballet Frankfurt and the Forsythe Company, and as a primary collaborator of choreographer | | | | | |
| Ken Dill | | | | | |
| | | | | | |

'aith develonment. All are welcome at our Masses and any of our activities. For more information visit our weheite at catholic duke edu or email catholic@duke edu.

| sponsors | categories | cost | location |
|--|---|----------------------|-------------------------|
| e Libraries, Center for Documentary Studies (CDS), David M. | Multicultural/Identity, United States Focus, Exhibit, Ongoing | Free | Rubenstein Library Phot |
| s Center for Documentary Studies (CDS), Archive of Docume | er Ethics, Human Rights, United States Focus, Diversity/Inclusion, Exhibit, Ongoing | Free | Center for Documentary |
| g Libraries, David M. Rubenstein Rare Book & Manuscript Lib | or Multicultural/Identity, Human Rights, United States Focus, Civic Engagement/Social Action | Free | None |
| Nicholas School-Enrollment Services | Multicultural/Identity, Leadership, Global, Ongoing, Training, Workshop/Short Course | Online, Global, Free | Online |
| Arts & Health at Duke | Visual and Creative Arts, Entrepreneurship, Exhibit, Health/Wellness, Ongoing | | See description |
| ii Libraries, David M. Rubenstein Rare Book & Manuscript Lib | л Exhibit, Ongoing | Free | Rubenstein Library Mary |
| r Coalition for Preserving Memory (CPM) | oalition for Preserving Memory (CPM) Multicultural/Identity, Leadership, Human Rights, Civic Engagement/Social Action, Diversity/Inclusion, Global, Panel/ | | Abele Quad |
| Blue Devils United (BD United) | Leadership, Lecture/Talk, Panel/Seminar/Colloquium, Training, Meeting, Workshop/Short C | 0 | Bryan Center |
| Women's Center, Progress. Period. (PP) | Student | | Women's Center |
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| link | event_link |
|---|---|
| https://library.duke.edu/exhibits/2018/wendelwhite | http://calendar.duke.edu/events/show.html?fq=id:CAL-2c918086-6 |
| | http://calendar.duke.edu/events/show.html?fq=id:CAL-2c918084-6 |
| https://library.duke.edu/exhibits/2018/SNCC | http://calendar.duke.edu/events/show.html?fq=id:CAL-2c918086-6 |
| https://nicholas.duke.edu/about/events/mooc-environmental-sed | http://calendar.duke.edu/events/show.html?fq=id:CAL-2c918086-6 |
| https://artsandhealth.duke.edu/programs/visual-arts/current-exh | http://calendar.duke.edu/events/show.html?fq=id:CAL-2c918082-6 |
| https://library.duke.edu/exhibits/2018/sanford | http://calendar.duke.edu/events/show.html?fq=id:CAL-2c918086-6 |
| | http://calendar.duke.edu/events/show.html?fq=id:CAL-2c918086-6 |
| | https://library.duke.edu/exhibits/2018/wendelwhite https://library.duke.edu/exhibits/2018/SNCC https://nicholas.duke.edu/about/events/mooc-environmental-sechttps://artsandhealth.duke.edu/programs/visual-arts/current-exh |

Last but not least, we also designed our database's schemas. There are 4 tables we are planning to use. Here is the detail.

```
SQL Schema1: An event:

{
    Eid,
    name,
    time,
    location,
    category,
    description,
    capacity,
    strictly_over_21,
    registration deadline (if exists)
    open to public: Boolean,
    administrator
}
```

```
SQL Schema2: An User
       Uid,
       name,
       gender,
       age,
       major,
       interests
}
SQL Schema3: User_Event
       eid1: uid1,
       eid2: uid3,
}
SQL Schema4: User_Group
       uid1: gid1
uid1: gid2
       . . . .
}
```