

The Haunted States of America

TEAM 2

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- Decided to work on a project related to Halloween
- Wouldn't it be cool to have a site where you could find haunted places?
 - Name
 - Location
 - Story
 - Place type (house, cemetery, asylum, etc.)
- Where are most haunted places located?
 - By State
- Found a database with nearly 11,000 haunted places across the United States

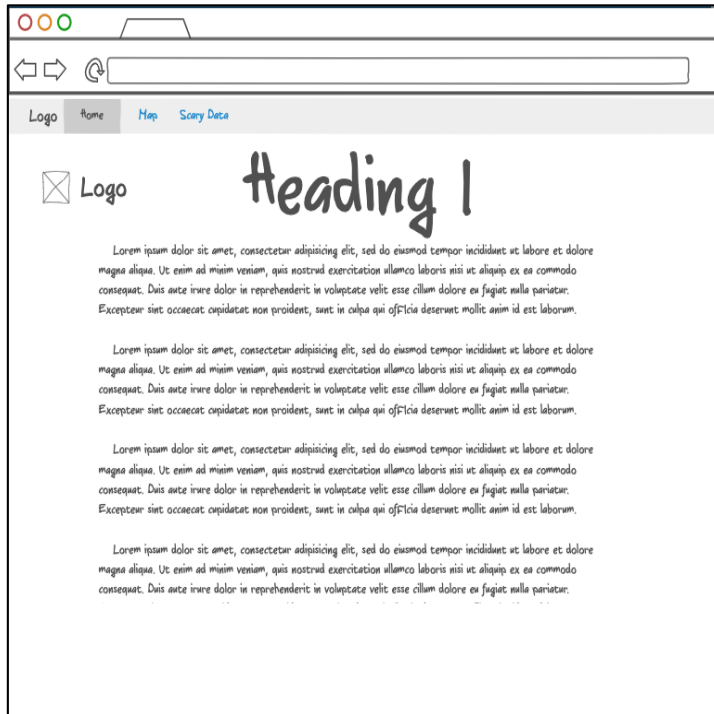


Trans-Allegheny Lunatic Asylum, Weston, West Virginia

***Haunting:** Closed in 1997. In the Civil War Wing you can hear police sirens even though there are no cops in the building.*

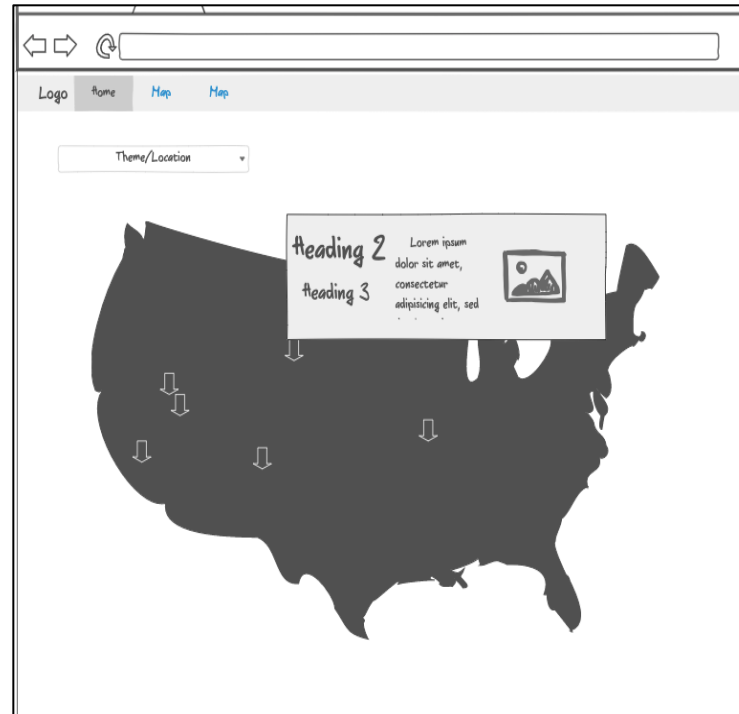


HUANTED HOME



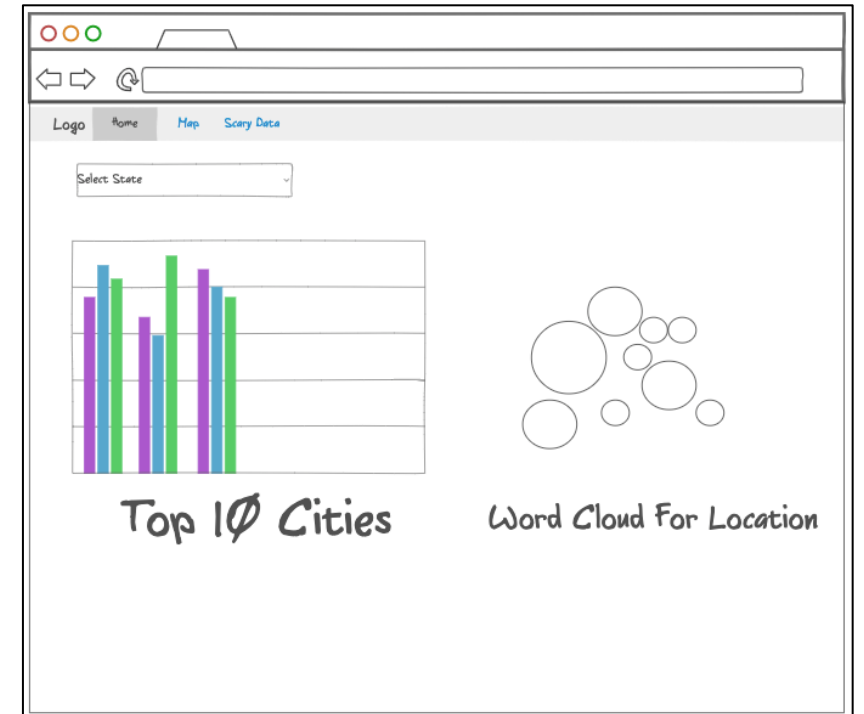
- Welcome page with information about the site and inviting users to explore for more information regarding haunted places in the United States

CURSED MAP



- Map displays haunted places across the United States
- By clicking on each marker, information regarding the place's name, type and description is displayed

SPOOKY DATA



- Top 10 Cities based on selected State
- Top 10 Place Types based on selected State
- Word Cloud based on place's description (optional)



- 1 Downloaded csv file ("haunted_places.csv")

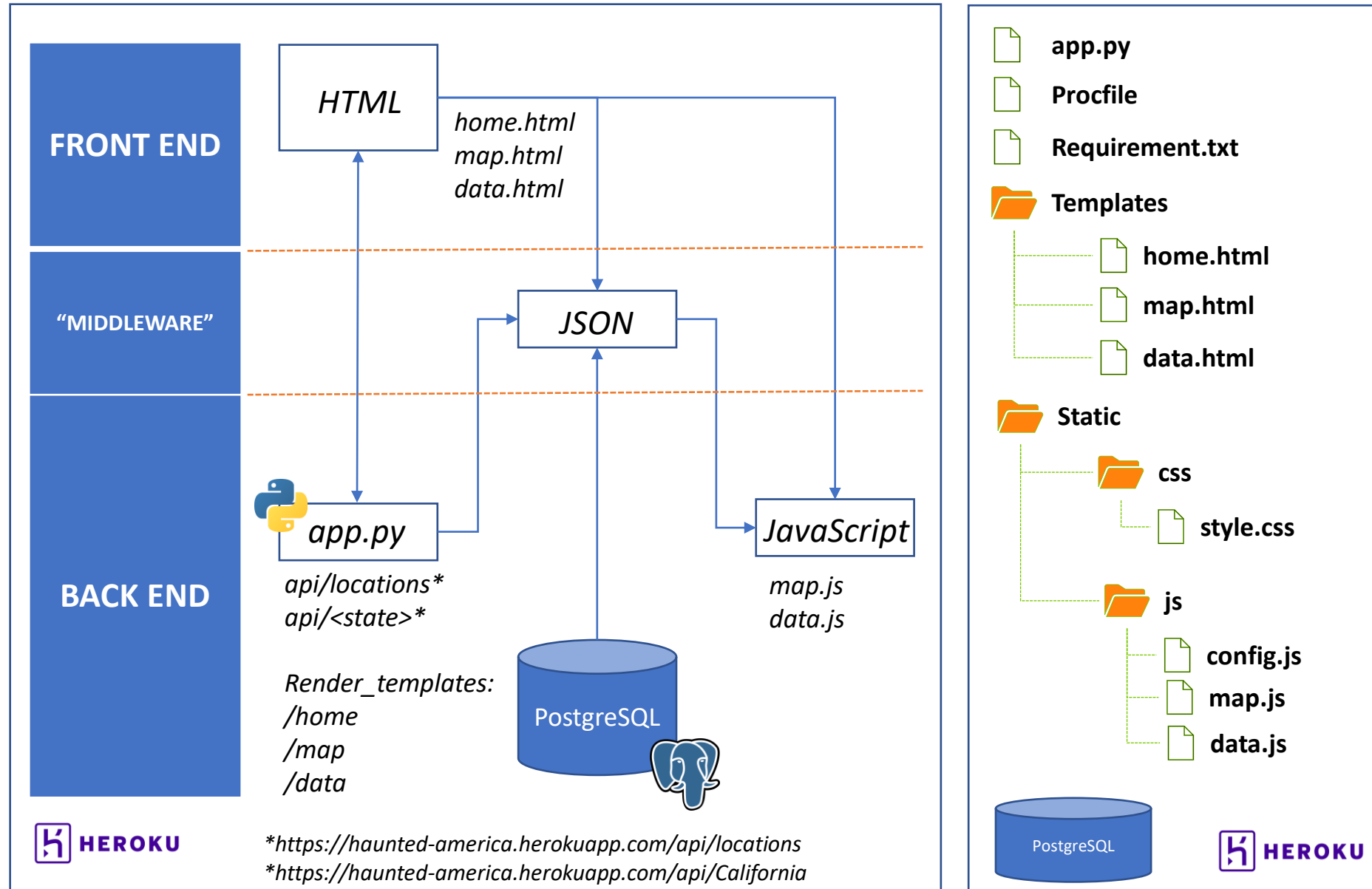


- 2 Extract data (10,992 records)
- Data cleansing:
 - Missing city, longitude or latitude
- Re-order columns
- Re-set index
- 9,720 total records exported to cleaned csv file (haunted_locations.csv")



- 3 Generated Database in Heroku
- Created Table: Locations
- Schema for Locations table:
 - loc_id as Primary Key
 - Location (place's name)
 - City
 - State
 - State abbreviation
 - Country
 - Longitude
 - Latitude
 - City Longitude
 - City Latitude
- Imported csv file to table

Architecture





```
1 from flask import Flask, render_template, redirect, jsonify
2 import os
3 from dotenv import load_dotenv
4
5 import sqlalchemy
6 from sqlalchemy.ext.automap import automap_base
7 from sqlalchemy.orm import Session
8 from sqlalchemy import create_engine, func
9
10 # Database Setup
11 # Get user and password from .env file
12 load_dotenv()
13 usern = os.environ.get('USERNAME')
14 passw = os.environ.get('PASSWORD')
15
16 # Database Info
17 database_url = f'postgres://reazfzrsjmph:ee5dc50a34fa7d55bd48753f2a26433403703bffa050047cb5cf2de1802317@ec2-50-17-197-184.compute-1.amazonaws.com:5432/reazfzrsjmph'
18
19 # Database Connection
20 engine = create_engine(database_url)
21 #connection = engine.connect()
22
23 # reflect an existing database into a new model
24 Base = automap_base()
25 # reflect the tables
26 Base.prepare(engine, reflect=True)
27
28 # Save reference to the table
29 Locations = Base.classes.locations
30
31 # Create an instance of Flask
32 app = Flask(__name__)
33
34 @app.route("/")
35 def home():
36     return render_template("home.html")
37
38 @app.route("/map")
39 def map():
40     return render_template("map.html")
41
42 @app.route("/data")
43 def data():
44     return render_template("data.html")
45
46 # Route to render index.html template using data from Mongo
47 @app.route("/api/locations")
48 def locations():
49     """
50     Access-Control-Allow-Origin: *
51     """
52     session = Session(engine)
53
54     location_data = session.query(Locations.loc_id, Locations.location, Locations.description,
55                                   Locations.city, Locations.state, Locations.state_abbrev,
56                                   Locations.longitude, Locations.latitude).all()
57
58     session.close()
59
60 # Convert query results to a dictionary
61 loc_ls = []
62 for loc_id, location, description, city, state, state_abbrev, longitude, latitude, in location_data:
63     loc_dict = {}
64     loc_dict["loc_id"] = loc_id
65     loc_dict["location"] = location
66     loc_dict["description"] = description
67     loc_dict["city"] = city
68     loc_dict["state"] = state
69     loc_dict["state_abbrev"] = state_abbrev
70     loc_dict["longitude"] = longitude
```

- Connection to PostgreSQL
- Rendered HTML Templates
- Created routes:
 - api/locations
 - api/<state>
- Created lists and jsonified



```
1 <!doctype html>
2 <html lang="en" class="no-js">
3 <head>
4   <meta charset="utf-8">
5   <title>Spooky Places in the US</title>
6   <meta name="description" content="Spooky places in the US">
7   <link href="css/style.css" rel="stylesheet">
8 </head>
9 <body>
10   <!-- Navigation -->
11   <div class="topnav">
12     <a class="logo" href="#home">The Haunted States of America</a>
13     <a href="map.html">Map</a>
14     <a href="data.html">Data</a>
15   </div>
16   <!-- Page Content -->
17   <div class="containerbody" >
18     <!-- Page Heading-->
19     <div class="row">
20       <h1>Spooky data</h1>
21     </div>
22     <!-- /.row -->
23     <!-- Content Row -->
24     <div class="row">
25       <div class="col-lg-12">
26         <p>Quo debet vivendo ex. Qui ut admodum senserit partiendo. Id adipiscing disputando eam, sea
27         <p>Te has amet modo perfecto, te eum mucius conclusionemque, mel te erat deterruisset. Duo ce
28         <p>Ea duo atqui incorrupte, sed rebum regione suscipit ex, mea ex dicant percipit referrentur
29       </div>
30     </div>
31     <!-- /.row -->
32     <hr>
33     <!-- Footer -->
34     <footer>
35       <div class="row">
36         <div class="col-lg-12">
37           <p>Copyright &copy; A very spooky Halloween INC. 2020 (a very spooky year)</p>
38         </div>
39       </div>
40     </footer>
41   </div>
42   <!-- /.container -->
43   <!-- jQuery -->
44   <script src="js/jquery.js"></script>
45   <!-- Bootstrap Core JavaScript -->
46   <script src="js/bootstrap.min.js"></script>
47 </body>
48 </html>
```

- HTML
- Created links to Map and Data pages
- Bootrstap

[{"city": "Ada", "description": "A small town you can see a misty blue figure floating within a 3-mile radius of the Ada Cemetery on 2 mile between Egypt Valley and Honey Creek. The story is as follows: A man suspected his wife was having an affair, so he followed her late one night when she thought he was asleep. Sure enough, she went to a field near their property where she met her lover. The husband was enraged and killed his wife, which resulted in a struggle with the other man. Both men died from their injuries. It is said that late at night (especially during the night of and the nights preceding a full moon) people driven by the field can see her ghost, searching for her lover. Some people have reported stopping to try to communicate with her, but she always disappears or runs into the woods where she cannot be followed (due to the thick brambles that inhabit the area). She is said to dress in a long white gown which appears to date her to the turn of the 20th century. Usually she is seen alone, but sometimes witnesses report seeing a ghostly death scene re-enacted. Other witnesses at all times claim to see the killer's shadow of a glow follower as the victims' screams of agony. Although it is said she haunts the field on Honeycreek Road where she died, other witnesses have heard her wailing in her nearby Seidman Park, and in nearby Findlay Cemetery, where she is supposedly buried. This story was actually featured in the book Ghosts of Grand Rapids., \"latitude\":42.9621061,\"loc_id\":\"1,\"location\":\"Ada Cemetery\", \"longitude\":-85.50489399999998,\"state\":\"Michigan\", \"state_abbrev\":\"MI\"), {\"city\":\"Addison\",\"description\":\"A little girl was killed suddenly while waiting for a school bus by a speeding car. Since her death things have happened. The day of her funeral she was crying and screaming. Her mother told her that if she would die again, she would die again. She never did. Now she can be felt & heard. People who are passing by the house knocking at the door is still present to this day in the home. Also when there swings in the yard you could see them swing real high as if someone was swinging on them. Lights like to go on & off in this home and she does move things to let someone know she is there. The cemetery where this child lies has had alot of activity also. When you visit her grave she has a twirl that will start going around & round with no reason or wind blowing to let you know she is present. Some have said she has been spotted walking the cemetery very restless as if she doesn't realize she has passed on., \"latitude\":41.971427999999994,\"loc_id\":\"2,\"location\":\"North Adams Rd.\", \"longitude\":-84.3818434,\"state\":\"Michigan\", \"state_abbrev\":\"MI\"), {\"city\":\"Adrian\",\"description\":\"The Adrian Police Department has received reports of sightings of a ghostly woman in a white dress who now can be felt & heard in the narrow one lane trestle bridge. The road goes under this. Legend has it that at one time there was a farm house built near the tracks. Late one night a fire broke out in the barn. While the father ran to the barn to try to get the horses out, his wife and young son went to the tracks to wave down one of the many trains that would use that right of way. They were too close to the tracks however and both were struck by the train as it went past. The father was killed in the barn. Now if you go out there late at night, you can sometimes communicate with the Father. He will not allow you to talk to his wife or son; as if he was protecting them . There are other people living in the area now, and a large streetlight has been placed there by the people who own the neighboring land. If you stay there too long, they will call the police. However, if you make your visit short enough they will usually leave you to it. This place has also been described as a good place to go to contact other spirits. The Father can be asked to help in this matter. He will not allow antagonistic spirits to talk however; once again to protect his family., \"latitude\":41.904538,\"loc_id\":\"3,\"location\":\"Ghost Trestle\", \"longitude\":-84.83565619999998,\"state\":\"Michigan\", \"state_abbrev\":\"MI\"), {\"city\":\"Adrian\",\"description\":\"In the 1970's, one room, room 211, in the old section of the dorms exhibited several phenomena. Don't know if this still continues today. The door into the room from the hallway, as well as the door into the bathroom, as well as upon entering the room, would open and shut on its own. After closing, usually, it would lock again. Sometimes, after closing, the door would come back (as if that the room shared with a boarded up, no longer used laundry shaft) where the light would appear, usually, to be lit. Attempts were made to explain their appearance, they were visible any time it was dark and the doors were closed. They were screened off from the windows to see if they might be reflections, they weren't. When objects were placed between them and the windows they actually became brighter. We tried painting the walls, putting several coats of paint over them (thinking they may have been a joke of a previous resident, made with glow in the dark paint) - also having used sandpaper on the wall in that spot first before painting. They still appeared bright as ever after the painting. We tried covering them over with hanging a curtain over the bathroom door, but the lights would still appear. I saw a drawing of a person in a white dress and a similar drawing of a person in a white dress. I tried looking through the window up the next morning to find it taped to the ceiling over my bed. We finally moved a tall dresser in front of it and that seemed to take care of it. Reports from later residents told us that they had placed a mirror over it, and they had a rocker in the room. One night during a party, with several witnesses, the rocker began rocking on its own, then flew back and smashed the mirror. Have had no contact with the school since graduation, so don't know if these things still happen or not., \"latitude\":41.9057214,\"loc_id\":\"4,\"location\":\"Sienna Heights University\", \"longitude\":-84.85176559999999,\"state\":\"Michigan\", \"state_abbrev\":\"MI\"), {\"city\":\"Albion\",\"description\":\"Kappa Delta Sorority - The Kappa Delta Sorority is haunted by an entity known as the White Dress. The sorority building is located on the corner of Main and Third Streets in Albion. The White Dress has been seen in the building and coming from the upstairs floor while they are in the basement. At one time a sister called out to P and received a hello in reply., \"latitude\":42.2440064,\"loc_id\":\"5,\"location\":\"Albion College\", \"longitude\":-84.7451775,\"state\":\"Michigan\", \"state_abbrev\":\"MI\"), {\"city\":\"Albion\",\"description\":\"A mysterious lady in white has been spotted in this cemetery., \"latitude\":42.236813899999994,\"loc_id\":\"6,\"location\":\"Riverside Cemetery\", \"longitude\":-84.7530555,\"state\":\"Michigan\", \"state_abbrev\":\"MI\"), {\"city\":\"Algonac\",\"description\":\"Morrow Road is a haunted road in Algonac Michigan near Hersens Island. In the 1800's a woman lost her child on the road and is still looking for her toddler. She is strange and often crying about it. The road is seen from the side of the road in the 1800's as the dress covered in blood. Still others have reported seeing her hanging from a tree by a noose. The road has been on the popular show Unsolved Mysteries as well as several local news channels. Now there is a movie being made about the road. The story behind the road is a woman went out in the middle of the night to find her toddler that had somehow got out alone in the winter they both froze to death. It is a fact that if you park on the bridge at midnight and honk your horn three times she will appear and see if you have her baby. She is also said to be wearing a white blood stained dress carrying a doll in her arms. Light is said to be seen in the trees along Morrow Road., \"latitude\":42.5762902,\"state\":\"Michigan\", \"state_abbrev\":\"MI\"), {\"city\":\"Allagan\",\"description\":\"People report hearing footsteps and doors slamming where there are no doors, a small child's voice say Mama?, \"latitude\":42.520552,\"loc_id\":\"8,\"location\":\"Elks Lodge\", \"longitude\":-85.41519919999998,\"state\":\"Michigan\", \"state_abbrev\":\"MI\"), {\"city\":\"Boothbay Harbor\",\"description\":\"A woman on the 2nd floor is haunted by an unknown spirit., \"latitude\":43.85433769999999,\"loc_id\":\"3048,\"location\":\"Boothbay Opera House\", \"longitude\":-69.626553,\"state\":\"Maine\", \"state_abbrev\":\"ME\"), {\"city\":\"Allegan\",\"description\":\"Various ghostly activities. News coverage about these hauntings every year around Halloween., \"latitude\":42.4911111,\"loc_id\":\"42,\"location\":\"Allegan Cemetery\", \"longitude\":-85.8575262,\"state\":\"Michigan\", \"state_abbrev\":\"MI\"), {\"city\":\"Allegan\",\"description\":\"There have been notes of white dogs chasing cars that pull into the drive way.



```

1
2 function buildCharts(state) {
3   var town=[];
4   let counter = {};
5   d3.json("/api/locations").then(data => {
6     const estados= data.filter(x => x.state == state);
7     console.log(estados)
8     for (var i = 0; i < estados.length; i++) {
9       town.push(estados[i].city)
10    };
11    console.log(town)
12
13    for (let i = 0; i < town.length; i++) {
14      let item = town[i];
15      counter[item] = (counter[item] + 1) || 1;
16    }
17    console.log(counter)
18    var sortable = []
19    for (var x in counter) {
20      sortable.push([x, counter[x]])
21    };
22    sortable.sort(function (a,b){
23      return b[1] - a[1]
24    })
25    console.log(sortable)
26    var topTen = sortable.slice(0,10)
27    console.log(topTen)
28    var topTenObj = {};
29    topTen.forEach(function (x){
30      topTenObj[x[0]] = x[1]
31    })
32    console.log(topTenObj)
33    const bardata = [
34      {
35        y: Object.values(topTenObj),
36        x: Object.keys(topTenObj),
37        type: "bar",
38      }
39    ]
40    var barlayout = {
41      title: 'Top 10 haunted cities in chosen state',
42      margin: { t:30, l: 150}
43    };
44    Plotly.newPlot("bar", bardata, barlayout)
45  });
46  };
47
48  function init() {
49    console.log('hello');
50    const firstState = "Alabama";
51    buildcharts(firstState);
52  };
53
54  function optionChanged(newState) {
55    buildcharts(newState);
56  };

```

- Plotly -> Bars and Pie Charts

- Updates based on <State > filter (dropdown in HTML)

- Data from <state> JSON:

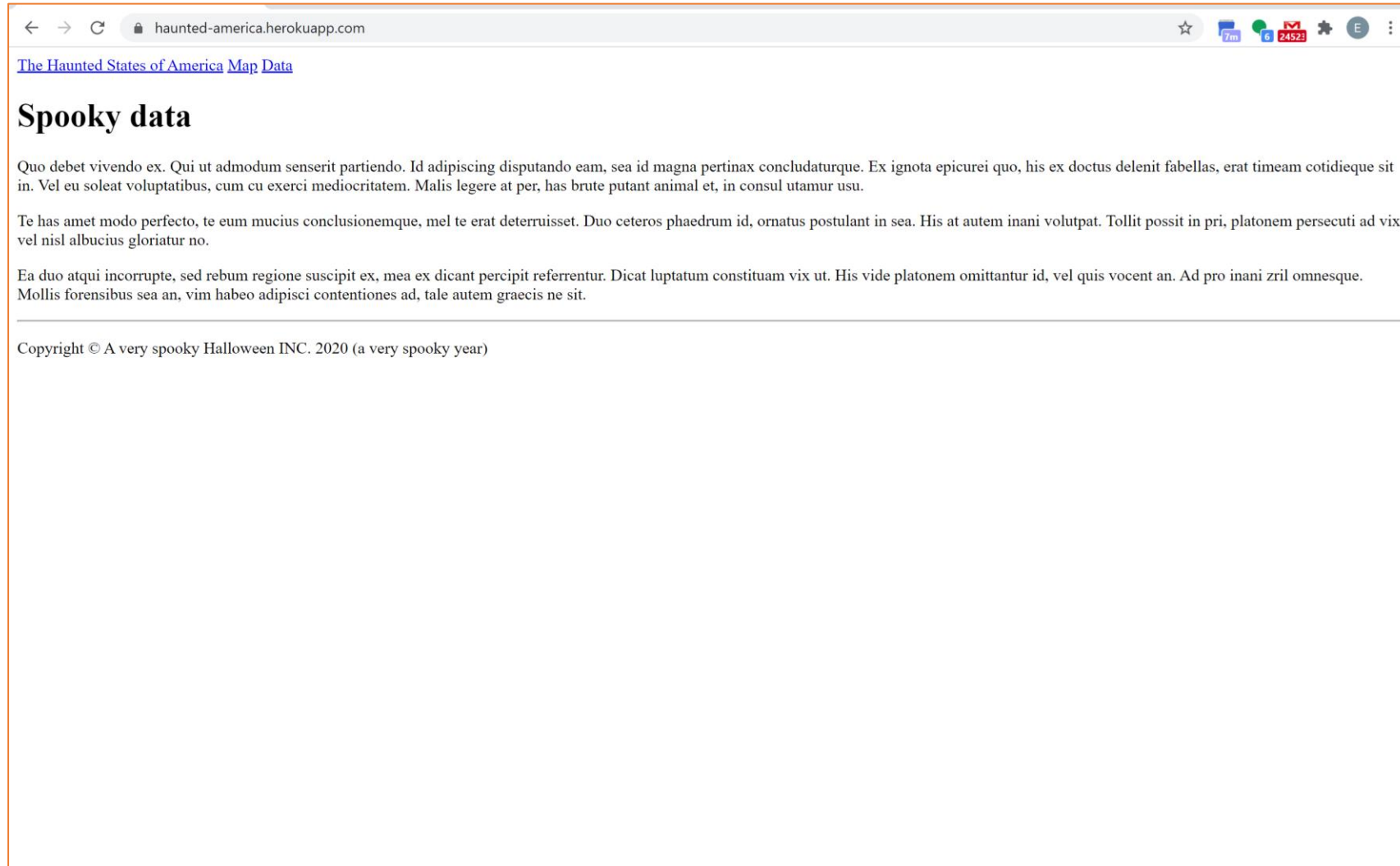
<https://haunted-america.herokuapp.com/api/<state>>

Example: <https://haunted-america.herokuapp.com/api/California>

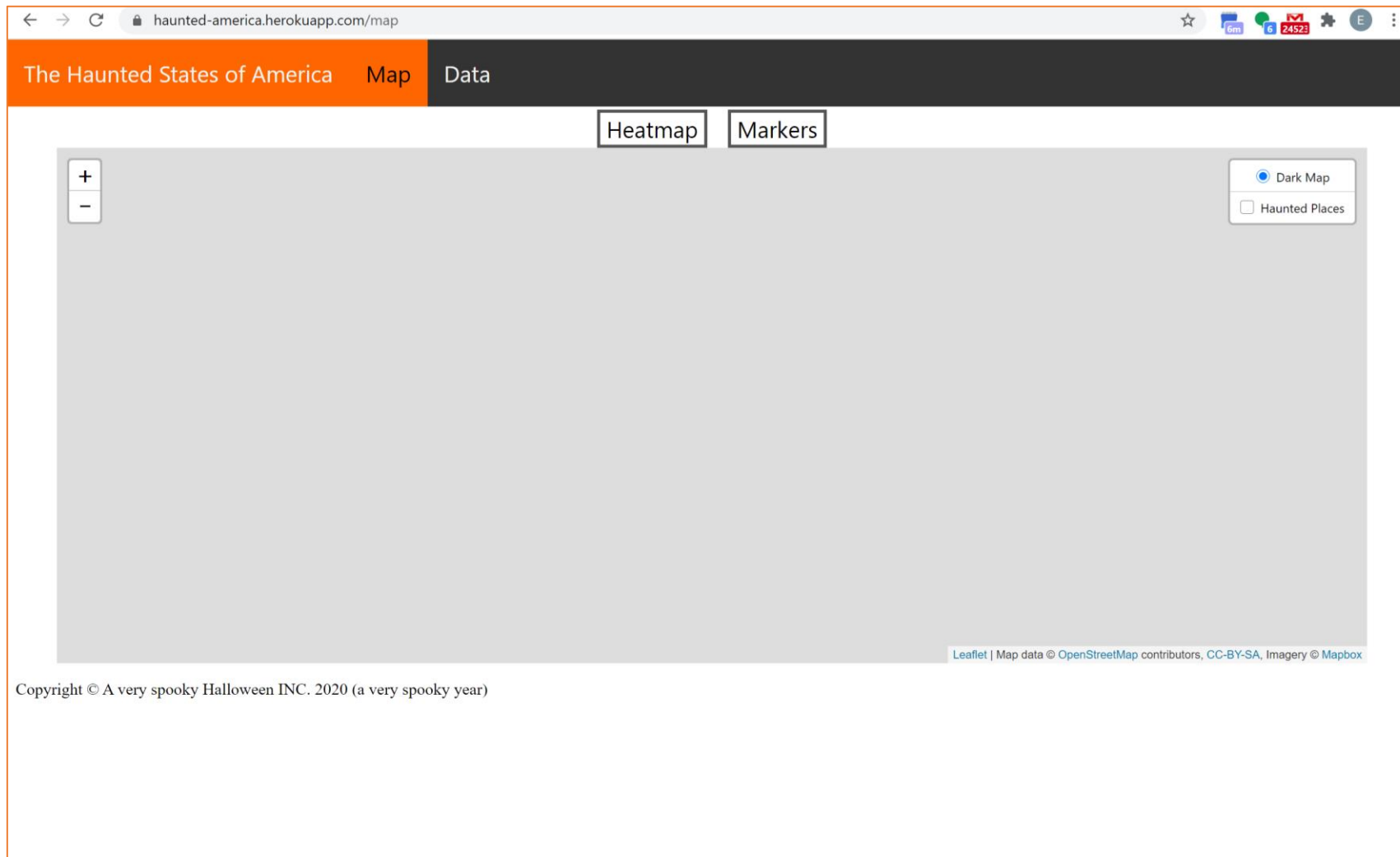
```

[{"city": "Oceanside", "description": "Sometimes the image of a student who hung himself on a tree by the 400 building in 1990 is seen.", "latitude": 33.2175617, "loc_id": 1568, "location": "El Camino High School", "longitude": -117.31890449999999, "state": "California", "state_abbrev": "CA"}, {"city": "Lancaster", "description": "You can see a little girl dressed in old fashioned cloths looking at you if you walk through the cemetery at night.", "latitude": 34.697376299999995, "loc_id": 2494, "location": "Cemetery", "longitude": -118.12860149999999, "state": "California", "state_abbrev": "CA"}, {"city": "Los Angeles", "description": "Ghost seen sitting in the seats.", "latitude": 34.073851, "loc_id": 2570, "location": "The Dodger Stadium", "longitude": -118.23995829999998, "state": "California", "state_abbrev": "CA"}, {"city": "Riverside", "description": "Alice Miller's ('Aunt Alice') room - 4th floor, south east corner. This two-level room is very active. Reports of cold spots, touches, apparitions. Strong presence of Alice.", "latitude": 33.9841225, "loc_id": 1713, "location": "Mission Inn", "longitude": -117.37637899999999, "state": "California", "state_abbrev": "CA"}, {"city": "San Miguel", "description": "It has been said and even that a woman, 2 men and 2 children haunt the chapel of the mission. Apparently they went there to hide from men who were drunk and attempting to rob and murder them. Unfortunately they did not get away, and were indeed murdered. They have been said to relive the incident often.", "latitude": 35.744969399999995, "loc_id": 1954, "location": "San Miguel Mission", "longitude": -120.6971835, "state": "California", "state_abbrev": "CA"}, {"city": "In California Page 3", "description": "Y", "latitude": 37.7729227, "loc_id": 1933, "location": "San Mateo", "longitude": -122.4308374, "state": "California", "state_abbrev": "CA"}, {"city": "San Marcos", "description": "The ghosts of former inhabitants have been spotted on the grounds.", "latitude": 33.079481300000005, "loc_id": 1953, "location": "Questhaven", "longitude": -117.165765, "state": "California", "state_abbrev": "CA"}, {"city": "San Miguel", "description": "Adobe Compound - Purchased from the Mexican government by John Reed, the adobe compound was turned into an inn. In 1848, a gang of English pirates raided the inn due to a rumor that a treasure was buried on the property. When the raid was complete, 13 people were killed including reed, his family, and other guests staying at the inn. The treasure was never found, their ghosts are said to haunt the property.", "latitude": 35.744969399999995, "loc_id": 1955, "location": "San Miguel Mission", "longitude": -120.6971835, "state": "California", "state_abbrev": "CA"}, {"city": "San Rafael", "description": "There is a ghost dubbed 'blue boy' who supposedly drowned in a bathtub. Some students say they have seen wet footprints near the site of haunting.", "latitude": 37.979865600000004, "loc_id": 1956, "location": "Dominican University", "longitude": -122.51298870000001, "state": "California", "state_abbrev": "CA"}, {"city": "Sanger", "description": "In the mid 1900s a young orphan boy was caught trying to steal a pie cooling on the window sill of a farmers house. When the boy took off with the pie the farmer chased the boy to a developing street called Acacia. The boy was shot and killed while begging for his life on the future site of 87 Acacia. People who have taken occupancy in this house have reported a young boy begging for his life in the hallway, and missing food.", "latitude": 36.720296600000005, "loc_id": 1957, "location": "Acacia St.", "longitude": -119.56442679999999, "state": "California", "state_abbrev": "CA"}, {"city": "Sanger", "description": "Snake Road - The street is called Channel, the twisting curves in the road have caused it to become known as Snake Road. On top of that, it is close to a fast flowing river, Kings River. An apparition of a woman searching for her 2 daughters has been seen on the road.", "latitude": 36.731957799999996, "loc_id": 1958, "location": "Centerville", "longitude": -119.50138929999999, "state": "California", "state_abbrev": "CA"}, {"city": "Sanger", "description": "This is a popular place during Halloween when they have the haunted forest, hay rides, and haunted house tours. Some people have seen real ghosts lurking around during the activities on Halloween. It seems the ghosts come out during the perfect time! If you decide to go to these activities during Halloween, make sure it's a real person or a ghost that's pulling tricks on you.", "latitude": 36.663894299999995, "loc_id": 1959, "location": "Hobbs Grove", "longitude": -119.5348946, "state": "California", "state_abbrev": "CA"}, {"city": "Santa Ana", "description": "Popular to all of people around that area with a haunted house that has been torn off (99 out of 100 people in the city know about this area). This place has a lot of different stories, someone said this place used to be a coffee shop, some gangs came and shot each others made alot of people death and became haunted. Others said that the place used to be Indian cemetery so there are spirits appeared during the night and kicked people who lived there out.", "latitude": 33.752355600000001, "loc_id": 1960, "location": "Euclid corner Harzard", "longitude": -117.9375541, "state": "California", "state_abbrev": "CA"}, {"city": "Santa Ana", "description": "Lower Level - In the lower level, there is a wall of the crypts of children. Occasionally the faint sound of a child crying pierces the silence of the hallway down by this wall. UPDATE: baby wall no longer exists. Apparently the crypts have been moved (or disbursed), and a closed-circuit surveillance camera has been installed over the spot.", "latitude": 33.7705936, "loc_id": 1961, "location": "Fairhaven Cemetery Mausoleum", "longitude": -117.8414735, "state": "California", "state_abbrev": "CA"}, {"city": "Santa Ana", "description": "The boiler room is a very active place in this location you can see a large men floating around, also the break room is very active.", "latitude": 33.788884700000004, "loc_id": 1962, "location": "Ralph's grocery CO.", "longitude": -117.8683236, "state": "California", "state_abbrev": "CA"}, {"city": "Santa Ana", "description": "A young teenage actress, named Alice, died in the auditorium before the opening Act. She was in the balcony looking to see if her parents were there, when she fell over to the first floor and died. It is said that if you go to the Attic of the auditorium you could here someone inside knocking and walking around. Once you go in there is no one there. Lead actors and actresses have also said that when an opening Act is about to start there is a good luck sign carved on the floor, once the play it's over the carving isn't there anymore.", "latitude": 33.7436228, "loc_id": 1963, "location": "Santa Ana High School", "longitude": -117.87490940000001, "state": "California", "state_abbrev": "CA"}, {"city": "Santa Ana", "description": "Sightings of a little girl wandering around the store. According to employees they have heard her giggling at night when the store is closed some have the feeling of being watched and touched. Apparently in the early 70's a body of a little girl was found in the back of the store. Now she walks the store and plays.", "latitude": 33.6959508, "loc_id": 1964, "location": "Sports Authority", "longitude": -117.88793829999999, "state": "California", "state_abbrev": "CA"}, {"city": "Santa Barbara", "description": "A student by the name of Edwin was killed in the theatre in the 1950s when a counterweight sand bag fell from the cat walk and broke his neck. Students have sighted him in the theatre and in the upper cat walk. The sand bag that killed him still exists but is not used anymore.", "latitude": 34.4238783, "loc_id": 1965, "location": "La Cumbre junior high Theatre", "longitude": -119.72851829999999, "state": "California", "state_abbrev": "CA"}, {"city": "Santa Barbara", "description": "Lompoc Furniture on H St - The second floor of the building was the town morgue. A woman has been seen by many store patrons walking on the second floor landing. There are a series of furniture showrooms beyond the stairway landing on the second floor. The area is accessible; the back room to the right of the landing has spots, which are very cold.", "latitude": 34.6391501, "loc_id": 1966, "location": "Lompoc", "longitude": -120.4579489, "state": "California", "state_abbrev": "CA"}, {"city": "Santa Clara", "description": "Built around 1918 after the original structure was destroyed in 1912. Workers have witnessed apparitions, strange laughter, screaming, cold spots and freezer doors flying open violently along with the"

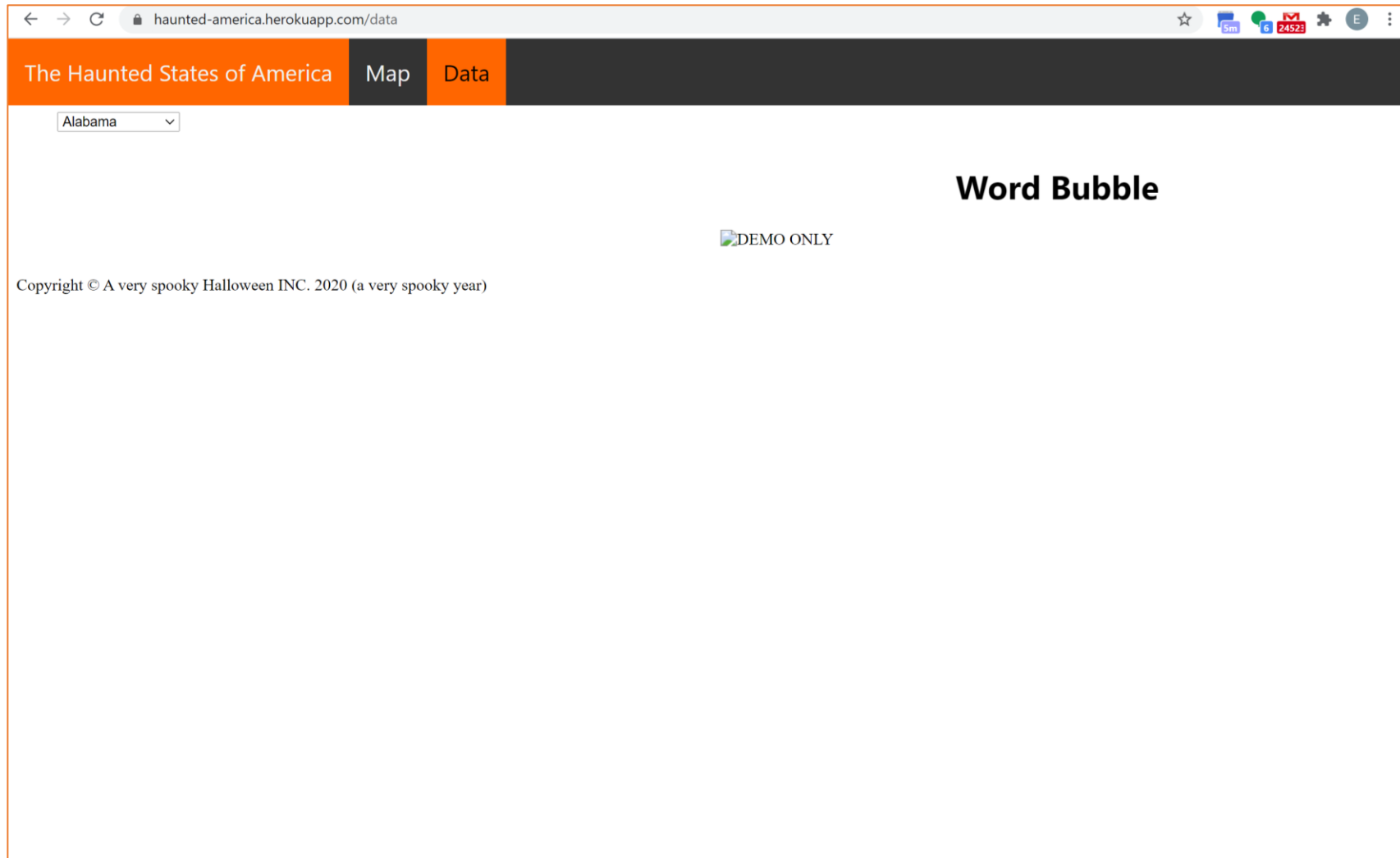
```



<https://haunted-america.herokuapp.com/>



<https://haunted-america.herokuapp.com/map>



<https://haunted-america.herokuapp.com/data>

Thank you!
Happy Halloween

