**Design:**

The project is split into two parts, the frontend at the /front/ folder and backend at the /back/ folder. The frontend uses AngularJS and split into multiple folders each detailing an “area” with associated controllers for itself as well as any modals it may need. A singular nav-bar is injected into every page except for the landing. The admin panel can be used to view all information as well as clearing the database. The different views are usually kept separate communicating only through the models in the database. However in some cases when data needs to be passed back and forth, the dataBus service is used. The dataBus service is used by setting a value then getting the value later, however the value stored can only be gotten once as when “get” is called, the value stored is cleared before returning. An additional auth service is used to keep track of the current user. On the backend, the REST endpoints mostly reside in the api file and all endpoints are prefaced by “/api”. The user-controller defines interactions with the user, defining gets as well as get many’s, the same applies to the event-controller. Get operations involve looking at the query for search filters and sort definitions. Additional endpoints are found in the ‘/dev’ prefaces in the dev route file. These endpoints are for development and admin use to clear users and events as well as populate the database with fake data.

**Security:**

TODO: Keith – talk about authentication, hashing here?

**Optimization:**

We used locust.io to simulate 300 users at 10 second intervals to test loading times of our landing and profile pages. This generated no failures or exceptions.

The resulting statistics:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Method | Name | # requests | # failures | Median response time | Average response time | Min response time | Max response time | Average Content Size | Requests/s |
| GET | //landing | 3693 | 0 | 7 | 8 | 3 | 96 | 27 | 29 |
| GET | //profile | 1817 | 0 | 6 | 8 | 3 | 75 | 27 | 14.27 |
| None | Total | 5510 | 0 | 7 | 8 | 3 | 96 | 27 | 43.27 |

The time distribution chart:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | # requests | 50% | 66% | 75% | 80% | 90% | 95% | 98% | 99% | 100% |
| GET //landing | 3340 | 6 | 8 | 9 | 9 | 13 | 17 | 23 | 31 | 96 |
| GET //profile | 1639 | 6 | 8 | 9 | 10 | 13 | 17 | 24 | 30 | 75 |
| None Total | 4979 | 6 | 8 | 9 | 9 | 13 | 17 | 23 | 31 | 96 |

**Video:**

Located at this link: https://youtu.be/oyTk\_V1L4JA