| ID | Description | Associated Feature | Probability | Impact (weeks) | Risk Exposure (weeks) | First Indicator | Mitigation Approach |
|----|---|-----------------------------|-------------|----------------|-----------------------|---|--|
| | Large number of clients may cause issues generating risk efficiently against weather data | Assigning risks to devices | 0.7 | 2 | 1.4 | Team struggles to find way to send all geolocations through risk algorithm | We are planning to budget time to address large numbers of clients. Code will have to be implemented in a manner that can efficiently make requests and render information. |
| | Displaying crowded mixes of low and high risk areas. | Web App (Map) | 0.5 | 1 | 0.5 | First time we display a large amount of crowded devices of variable risk. | Improve view implementation to display large number of devices more appropriately. |
| | Risk algorithm based on weather does not provide an accurate risk assessment | Showing risk levels | 0.2 | 1 | 0.2 | Risk on the map does not accurately represent the current weather pattern's danger level. | |
| | Database Schema may need modifications to enable proper risk level 4 generation | Showing risk levels | 0.4 | 1 | 0.4 | Risk algorithm requires persisting of information | Plan thouroughly ahead for risk algorithm. We are adding time to our schedule to accomadate downstream changes that the algorithm might bring. |
| | 5 Push notifications are not reliable | Mobile | 0.1 | 1 | 0.1 | Push notifications are not being recieved during testing | Lots of resources are available to make sending push notifications easy and more reliable. We will utilize these resources to avoid running into issues and make development easier. |
| | OAuth Client for the mobile app may 6 more complex than intitally thought | Mobile | 0.2 | 1 | 0.2 | Solution is hard to follow or very obvious it will take more time than expected. | Research plenty of options for apporaching it and plan on how to go about it the most efficient way possible. |
| | 7 Code to render dotmap is very complex | Showing devices/risk levels | 0.4 | 1 | 0.4 | Changes to dotmap are tough to implement | Attempt to refactor the page to be simpler and very well documented. |