

		Probability				
Severity		Very Low	Low	Medium	High	Very High
	Very High	C2	C1	T1		
	High		T2, F2			
	Medium	C3			S2	
	Low					S1
	Very Low				F1	

## Key:



**Acceptable:** The risk is acceptable and no further resolution is needed.



**Permissible:** The risk is at a level that any controls that could be put in place without causing undue hardship should be used.



**Considerable:** The risk must be considered and contingencies prepared.



**Catastrophic:** The project cannot proceed until a resolution is identified to mitigate the risk.

## Risk Assessment of Crime Hotspot

### Technical

**T1** (P:5, S:3) Using the JS MEAN stack requires learning multiple programming systems.

Resolution: Distribute the Stack programming responsibilities amongst the team making individual experts and group generalists.

**T2** (P:2 S:4) Technical Specialist goes missing, quits, or has a life event.

Resolution: Ensure that all generalist have an understanding of where the technical specialist is at in the problem and rotate duties.

### Schedule

**S1** (P:5, S:2) Regular communication is challenging due to collaboration occurring online and team members' preexisting time commitments.

Resolution: Make some individuals generalists that assist the team in all areas.

**S2** (P:4, S:3) Team does not set regular deadlines and things that theoretically sound easy are difficult in implementation.

Resolution: Team uses agile development practices and has daily scrums and progress reports.

### Financial

**F1** (P:4, S:1) Mapping APIs have a cost for use on leading products.

Resolution: Use mid-level API that only charges with large use.

**F2 (P:2, S:4)** Cost of continued web hosting for a free product could become too great.

Resolution: It would be preferable to stay on the generous hosting provided by ODU CS Department. Otherwise, we might show advertisements on our own hosted website or charge a small amount for the mobile companion app.

## **Customer**

**C1 (P:2, S:5)** Data source is required. Effort to submit data must be seen as worth the return.

Resolution: Make the data input simple.

**C2 (P:1, S:5)** User base cannot understand how to use the product.

Resolution: Make front end as simple as possible while maintaining usability; A quick optional tutorial could also be implemented.

**C3 (P:1, S:3)** Users are colorblind.

Resolution: Offer the user various color schemes to choose from in order to accommodate common types of color blindness.