

# Data Visualization of Missing Persons in the U.S



# Bandr AlSwyan and Ricky Severino



# Our Project



- Provide the general public with better understanding of the missing people in the U.S in an interactive manner.



# The Data



- National Institute of Justice's National Missing and Unidentified Persons System (NamUs.gov)
- Public and free to use



Free. Secure. Nationwide.

# The Data



## Collection

- Google Chrome plugin
- NamUs limit (JSON)
- Json command line tool
- Merge cities location data
- Convert to CSV for easier access

## Issues We Faced

- Spelling errors
- Wrong entries such as locations
- Wrong inputted fields
- Lack of continuity in regards to location names
- Duplicate location names
- Wrong usage of punctuation and symbols
- Address being inserted as county
- Countries being inserted as cities
- Counties that do not exist anymore



## Our Plan Was:



### MapBox

- Free version of MapBox had limit of 10 thousand points.
- Required more Data transformation

### R

- No prior experience
- Steep learning curve
- Took a while to get code to work

## Our Savior



- Software tool that allows for the visualization of data as well as the creation of statistics
- Killed two birds with one stone







Live Demo



# Costs And Security

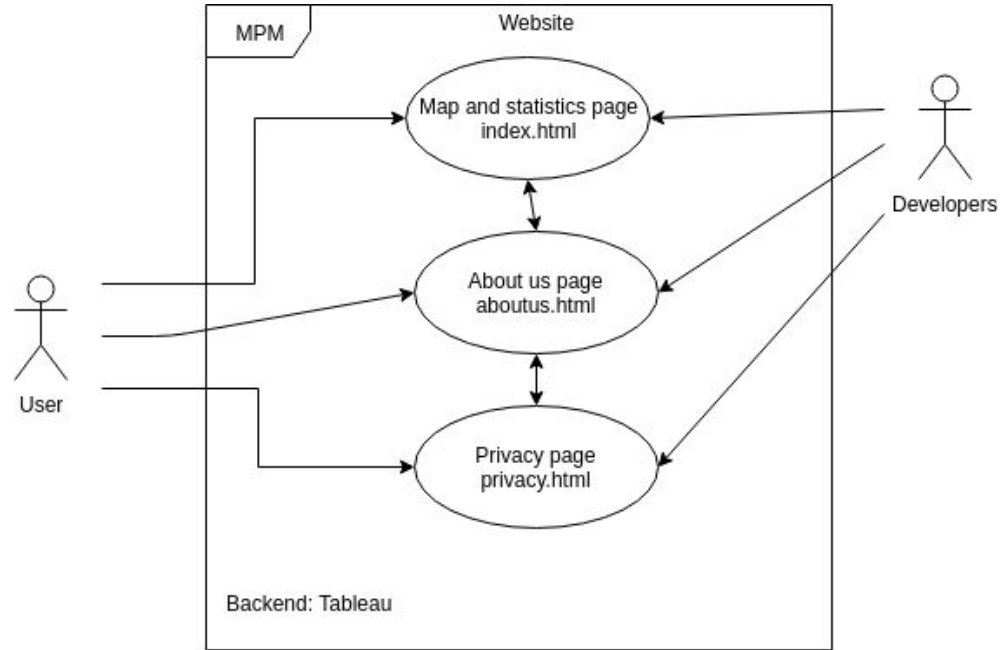


## Costs

- Performance of the website
- Manual updating
- Not how and why but... what and who

## Security

- Inspect element shows display token
- Takes user to Tableau author profile



*Use case diagram (UML) for the end user using the website*





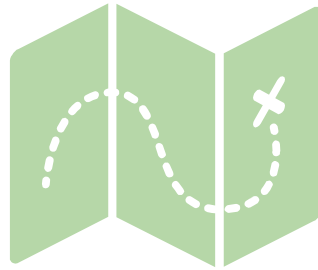
Live Demo

# References



- "Department Of Justice: Privacy Policy". 2018. *Justice.Gov*. <https://www.justice.gov/doj/privacy-policy>.
- "Namus". 2018. *Namus.Gov*. <https://www.namus.gov/>.
- "Namus". 2018. *Namus.Gov*. <https://www.namus.gov/DOJPrivacyActNotice>.
- "National Missing And Unidentified Persons System (Namus) – NFSTC@FIU". 2018. *Nfstc.Org*. <https://www.nfstc.org/past-performance/namus/>





THANKS!