

Shiny Assignment 1

Problem Statement:

Chicago Crime Data available from <https://data.cityofchicago.org/Public-Safety/Crimes-2001-to-present/ijzp-q8t2> provide reported incidents of crime that occurred in the City of Chicago. These data are available from 2001 through the present. Download the data for 2018 only (*i.e.*, an incident occurred in 2018) from the above site.

Create a shiny app using the above data showing the following information under three separate tabs.

Tab 1: Frequency of crime by month and crime type. Create bar charts for different month crime type combinations.

Tab 2: Location of crimes by date on a map.

Tab 3: A heatmap using the type of crime and the hour of the day when the crime was committed. (*The goal of this heatmap is to identify any relationship between crime type and hour at which the crime is committed.*)

Instructions for Submission:

1. Include your last name in the name of the file you submit. For example, if your name is Michael Phelps, name the file **BUAN6357_Shiny1_Phelps**.
2. **DO NOT** use an absolute directory path in your R script. I should be able to run your code without trying to find the input data in another directory. Assume that I will have the downloaded .csv file in my directory where I will save your R code.
3. Carefully preprocess the data for any missing or potentially incorrect information.
4. Label the charts/tables appropriately. These include titles, axis names, axis labels.
5. Please **check the deadline** on eLearning. Any assignment submitted after the deadline will be considered late and will not be graded.