```
server <- function(input, output, session) {

  la2<- reactive({
    data.frame(la%>%select(crime_cat,lat,long)%>%
                 filter(crime_cat == input$yaxis))
  })
  df1 <- reactive({
    req(input$yaxis)
    color <- colorFactor(topo.colors(7), input$yaxis)
    df %>%
      select_("long", "lat", "occ_date", yaxis=input$yaxis) %>%
      filter(complete.cases(yaxis))
  }
  )

  df2 <- reactive({

    df1() %>%
      filter(occ_date > input$date_range[1] & occ_date < input$date_range[2])

  })

  # observe({
  #   print(input$date_range[1],input$date_range[2])
  #   print(class(input$date_range))
  #   print(nrow(df2()))
  # })

  output$mymap <- renderLeaflet({
    #input$goButton
    leaflet() %>%
      addTiles() %>%
      setView(lng =  -122.620608423371, lat = 45.4654788882659, zoom = 12)%>%
      addProviderTiles('OpenStreetMap.Color',layerId=1)


  })
  observe({

    proxy <- leafletProxy("mymap")
    proxy %>%
      clearShapes()%>%
      clearMarkers()%>%
      clearMarkerClusters()%>%
      addCircleMarkers(lng = df2()$lat, lat = df2()$long,clusterOptions =
          markerClusterOptions(),popup= paste(df2()$long, df2()$lat))
  })

  output$table <- renderDataTable({table_df},
                                  options = list(scrollX = TRUE))
  output$clus <- renderPlot({

    la2<-data.frame(la%>%select(crime_cat,lat,long)%>%
                      filter(crime_cat == input$yaxis))
    ggmap(get_googlemap(center =
```

```
        c(-122.651608423371,45.4899788882659),size=c(640,640),maptype =
        "roadmap",scale = 2,zoom=11))+ geom_density2d(aes(x = lat, y = long),
        data = la2, size = 0.3) + stat_density2d(data = la2,aes(x = lat, y =
        long, fill = ..level.., alpha = ..level..), size = 0.01,bins = 20, geom =
        "polygon") + scale_fill_gradient(low = "green", high = "black")
        +scale_alpha(range = c(0, 0.3), guide = FALSE)
  })


}
```