# **APP Pages:**

# 1st Page: The map of "Worldwide"

Note: The symbol "China (Hubei) 68,135" is trigged when the cursor is on the red cycle, it somehow cannot be seen in the screenshot.

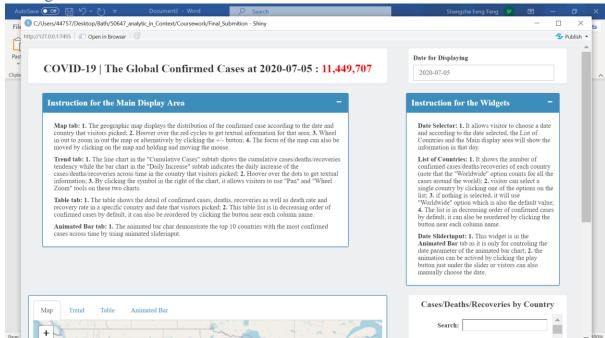


## 2<sup>nd</sup> Page: The map of "US"

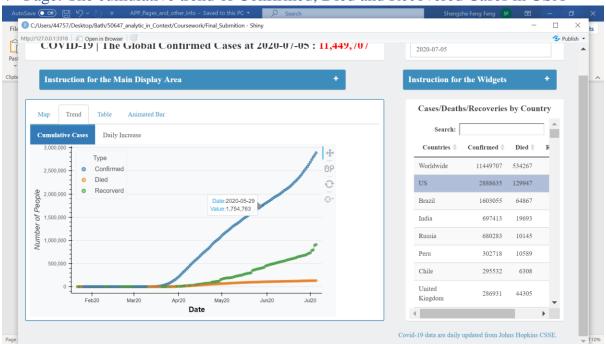
Note: Maps of all other countries are similar; NA on the symbol means the information in subarea in US is not provided.



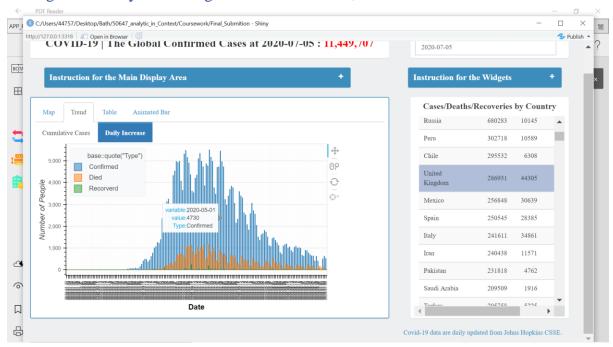
### 3<sup>rd</sup> Page: The Two Instructions



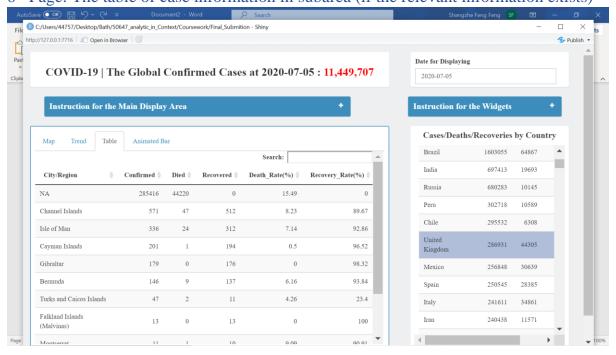




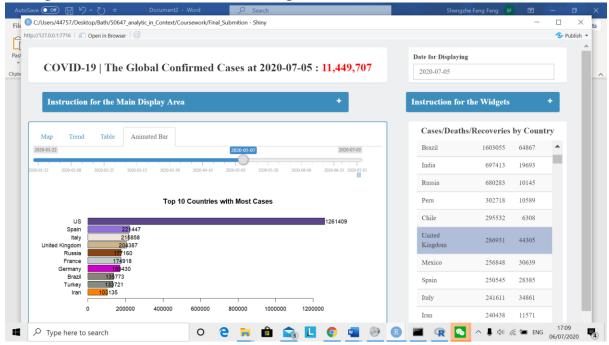
### 5<sup>th</sup> Page: The daily increasing trend of Confirmed, Died and Recovered Cases in UK



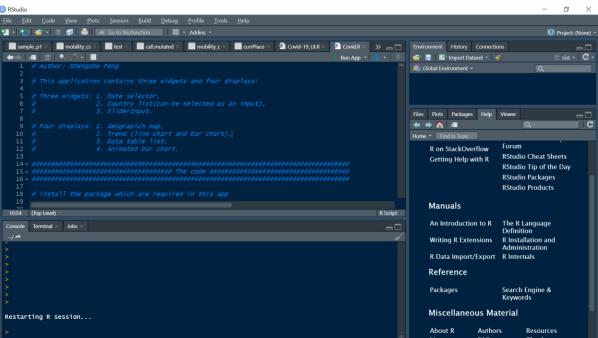
6<sup>th</sup> Page: The table of case information in subarea (if the relevant information exists)



#### 7<sup>th</sup> Page: The Animated Bar for the change of cases in TOP 10 countries



### Restarted R:



#### **Session Information**

Sessioninfo(): Under 3.6.1 Version of R

```
R version 3.6.1 (2019-07-05)
Platform: x86_64-w64-mingw32/x64 (64-bit)
Running under: Windows 10 x64 (build 18362)
Matrix products: default
 [1] LC_COLLATE=English_United Kingdom.1252
[2] LC_CTYPE=English_United Kingdom.1252
[3] LC_MONETARY=English_United Kingdom.1252
[4] LC_NUMERIC=C
[5] LC_TIME=English_United Kingdom.1252
 graphics grDevices utils
                                                                                                                                                           datasets methods
                                                                                                                                                                                                                                  base
other attached packages:

[1] DT_0.13 leaflet_2.0

[4] rlist_0.4.6.1 lubridate_1

[7] stringr_1.4.0 dplyr_0.8.3

[10] readr_1.3.1 tidyr_1.0.0

[13] ggplot2_3.3.0 tidyverse_1

[16] shinydashboard_0.7.1 shiny_1.4.0
                                                                                             leaflet_2.0.3
lubridate_1.7.4
                                                                                                                                                                      rbokeh_0.5.0 forcats_0.4.0
                                                                                                                                                                      purrr_0.3.3
tibble_2.1.3
RCurl_1.98-1.1
                                                                                            tidyverse_1.3.0
 loaded via a namespace (and not attached):
[1] nlme_3.1-140 bitops_1.0-6
[4] xts_0.11-2 httr_1.4.1
[7] backports_1.1.5 R6_2.4.1
                                                                                                                                                                                           fs_1.3.1
tools_3.6.1
DBI_1.1.0
 [1]
[4]
[10]
[13]
[16]
[22]
[22]
[23]
[34]
[44]
[44]
[44]
[55]
[64]
[67]
[72]
                                                                                                                                                                                         DBI_1.1.0
colorspace_1.4-1
tidyselect_0.2.5
cli_2.0.2
tseries_0.10-47
fracdiff_1.4-2
digest_0.6.25
htmltools_0.4.0
maps_3.3.0
readxl_1.3.1
quantmod 0.4-16
               sigmoid_0.3.0
nnet_7.3-12
curl_4.2
                                                                                                     lazyeval_0.2.2
withr_2.1.2
compiler_3.6.1
xml2_1.2.2
lmtest_0.9-37
                 rvest_0.3.5
scales_1.1.0
hexbin_1.28.1
                                                                                                     Imtest_0.9-37
quadprog_1.5-8
pkgconfig_2.0.3
fastmap_1.0.1
rlang_0.4.6
rstudioapi_0.11
pryr_0.1.4
jsonlite_1.6.1
Rcpp_1.0.3
lifecycle_0.1.0
forecast_8.9
promises 1.1.0
               hexbin_1.28.1
rmarkdown_1.18
dbplyr_1.4.2
htmlwidgets_1.5.1
TTR_0.23-5
gistr_0.5.0
zoo_1.8-6
magrittr_1.5
fansi_0.4.0
stringi_1.4.3
parallel_3.6.1
doSNOW_1.0.18
hms_0.5.3
codetools_0.2-16
glue_1.4.0
                                                                                                                                                                                           quantmod_0.4-16
                                                                                                                                                                                          generics_0.0.2
crosstalk_1.0.0
munsell_0.5.0
yaml_2.2.0
grid_3.6.1
                                                                                                                                                                                         grid_3.6.1

crayon_1.3.4

haven_2.2.0

pillar_1.4.2

urca_1.3-0

leaflet.providers_1.9.0

vctrs_0.2.2

neuralnet_1.44.2

assertthat_0.2.1

xtable_1.8-4

timeDate 3043.102
                                                                                                     promises_1.1.0
lattice_0.20-38
knitr_1.26
reprex_0.3.0
evaluate_0.14
                 glue_1.4.0
data.table_1.12.8
httpuv_1.5.2
cellranger_1.1.0
                                                                                                     modelr_0.1.5
foreach_1.4.7
gtable_0.3.0
 [73]
[76]
[79]
[82]
[85]
                xfun_0.11
broom_0.5.4
snow_0.4-3
                                                                                                      mime_0.7
                                                                                                        later_1.0.0
                                                                                                                                                                                           timeDate_3043.1<u>02</u>
                                                                                                       iterators_1.0.12
```

#### Sessioninfo(): Under 4.0.2 Version of R

```
> sessionInfo()
R version 4.0.2 (2020-06-22)
Platform: x86_64-w64-mingw32/x64 (64-bit)
Running under: Windows 10 x64 (build 18362)
Matrix products: default
[1] LC_COLLATE=English_United Kingdom.1252
[2] LC_CTYPE=English_United Kingdom.1252
[3] LC_MONETARY=English_United Kingdom.1252
[4] LC_NUMERIC=C
[5] LC_TIME=English_United Kingdom.1252
locale:
attached base packages:
                                    graphics grDevices utils
[1] stats
[7] base
                                                                                                                    datasets methods
other attached packages:
rbokeh_0.5.1 forcats_0.5.0
                                                                                                                            purrr_0.3.4
tibble_3.0.1
                                                                                                                            RCurl_{1.98-1.2}
loaded via a namespace (and not attached):
           httr_1.4.1
jsonlite_1.7.0
assertthat_0.2.1
cellranger_1.1.0
pillar_1.4.4
lattice_0.20-41
[1]
[3]
[5]
[7]
[9]
[11]
                                                                            maps_3.3.0
modelr_0.1.8
                                                                            blob_1.2.1
yaml_2.2.1
backports_1.1.7
                                                                            glue_1.4.1
                                                                           glue_1.4.1
promises_1.1.1
rvest_0.3.5
leaflet.providers_1.9.0
httpuv_1.5.4
broom_0.5.6
haven_2.3.1
scales_1.1.1
generics_0.0.2
withr_2.2.0
lazyeval_0.2.2
magrittr 1.5
            digest_0.6.25
pryr_0.1.4
colorspace_1.4-1
htmltools_0.5.0
[13]
[15]
[17]
[19]
[21]
[23]
[25]
[25]
[33]
[33]
[37]
[37]
[44]
[47]
[51]
[55]
[65]
[65]
            pkgconfig_2.0.3
gistr_0.5.0
xtable_1.8-4
later_1.1.0.1
ellipsis_0.3.1
hexbin_1.28.1
cli_2.0.2
crayon 1 3 4
                                                                            magrittr_1.5
readxl_1.3.1
            crayon_1.3.4
mime_0.9
                                                                         readxl_1.3.1
evaluate_0.14
fansi_0.4.1
xml2_1.3.2
data.table_1.12.8
lifecycle_0.2.0
reprex_0.3.0
rlang_0.4.6
rstudioapi_0.11
crosstalk_1.1.0.1
rmarkdown_2.3
codetools 0.2-16
            fs_1.4.2
nlme_3.1-148
tools_4.0.2
hms_0.5.3
munsell_0.5.0
compiler_4.0.2
            grid_4.0.2
htmlwidgets_1.5.1
bitops_1.0-6
gtable_0.3.0
DBI_1.1.0
                                                                            codetools_0.2-16
                                                                            R6_2.4.1
            knitr_1.29
stringi_1.4.6
vctrs_0.3.1
                                                                            fastmap_1.0.1
Rcpp_1.0.4.6
                                                                            dbplyr_1.4.4
xfun_0.15
 [67] tidyselect_1.1.0
```