COVID/A6

(BrainXX / MarineXX / COVIDA6 / HealthXX)

Meeting minutes & Action point slides

Date: 30/04/2022 (Week 10)

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Progress and action points (not required for the first meeting)

- Action points from last week … …
- …
- …

- Key progress over last week …
- …
- …

Define your project – What is your question/product

Brainstorm various questions and consider its scope and feasibility

- Question 1: - What is the vaccination rate across different countries over time?
- Question 2: - How has the death rate changed throughout various countries?
- Question 3: - How has the number of cases varied between different countries over time?
- Question 4:- Are covid infections more severe in less developed countries?
- Question 5:- How COVID has affected global economy and smaller markets?
- Question 6:- Do countries with higher vaccination rates see lower icu admissions? Does this also apply to those in the ‘high risk’ (65+) population.
- Question 7: Do countries with a lower life expectancy see a higher mortality rate?

- Question 8: What factors have significant role in predicting the death rates?

Overarching Question + Supporting Questions

Theme: To investigate what factors have a role in determining COVID mortality rate?

Supporting Questions

1. Does a higher ICU admission and hospitalization predict a higher mortality rate?
2. Does population density have an influence towards COVID mortality rate?
3. Does having pre-existing diseases increase your chances of developing severe symptoms?
4. What are certain habits which could increase your chances of developing severe symptoms (dying)?

Define your project – Anticipated challenges

For Project X or Question X:

- Challenge 1: Finding a time that suits everybody.
- Challenge 2: Deciding on which question we want to investigate.

Define your project – who is your target audience

Explore different types of target audience and its relationship to your project and select the most appropriate.

Target audience	Characteristics of target audience	How does it impact your project
General Public	People that are aware of COVID but might be unaware if they are in a high risk group.	We would like to raise awareness about the different factors that could increase their risk for severe symptoms or death.
Researchers	Interested in how COVID is different from other Viruses	Our report should be more professional and rely on statistics.
Undergraduate Students studying Datascience	Young, knows a bit of coding, likes graphs, always dealing with data, statistically inclined	

Meeting minutes

Date and time of meeting: 26/03 1pm – 2pm
Team members present: Amber, Pat, Eva, Gary, Ken

AGENDA

Item	Discussion (you can refer to previous slides)	Actions (who) – action points for next week
26/03/2022 - 1PM	- Defined Our questions, challenges and our target audiences.	- We need to finalize our question, clear up confusion about the project with the tutor.

Next meeting date and time:
Group member responsible for finalising/submitting minutes:
To be posted on the CANVAS Individual group website

Progress and action points

– Action points from last week … …

– We completed our IDAs for our questions.

– …

– Key progress over last week …

- We did our IDAs and explored our question and the data to answer it.

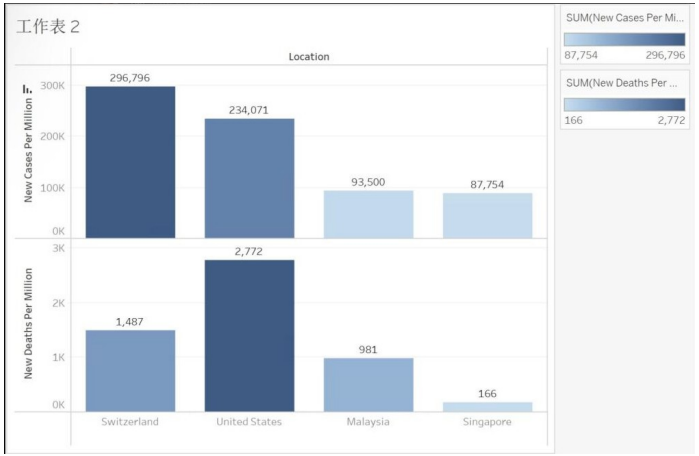
- Discussed issues and questions we had about our questions and whether or not we need to find extra data.

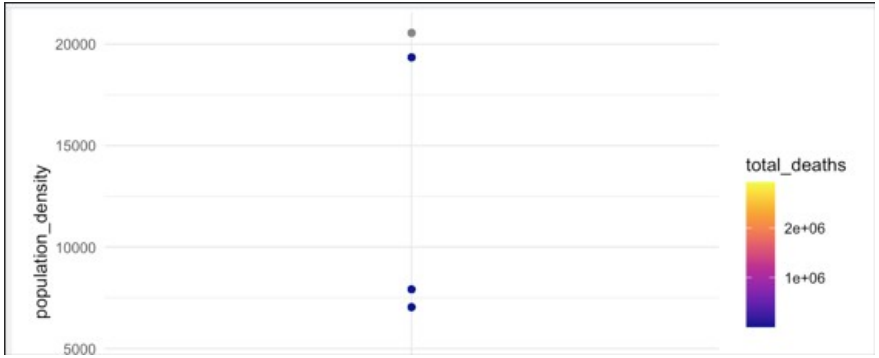
Developing the project – data

- Illustrate progress in data generation or data collection by showing some initial data analysis of your data.

```
> dis_usin2
    total_deaths location cardiovasc_death_rate diabetes_prevalence female_smokers male_smokers
42             1    India                282.28                10.39            1.9          20.6
43             1    India                282.28                10.39            1.9          20.6
44             2    India                282.28                10.39            1.9          20.6
45             2    India                282.28                10.39            1.9          20.6
46             2    India                282.28                10.39            1.9          20.6
47             2    India                282.28                10.39            1.9          20.6
48             3    India                282.28                10.39            1.9          20.6
49             3    India                282.28                10.39            1.9          20.6
50             4    India                282.28                10.39            1.9          20.6
51             5    India                282.28                10.39            1.9          20.6
52             4    India                282.28                10.39            1.9          20.6
53             7    India                282.28                10.39            1.9          20.6
54            10    India                282.28                10.39            1.9          20.6
55            10    India                282.28                10.39            1.9          20.6
56            12    India                282.28                10.39            1.9          20.6
57            20    India                282.28                10.39            1.9          20.6
58            20    India                282.28                10.39            1.9          20.6
59            24    India                282.28                10.39            1.9          20.6
60            27    India                282.28                10.39            1.9          20.6
61            32    India                282.28                10.39            1.9          20.6
62            35    India                282.28                10.39            1.9          20.6
```

```
> sum(dis_usin2$location == "India")
[1] 706
> sum(dis_usin2$location == "United States")
[1] 717
```





Developing the project – methods

– Proposed analytics or proposed methods.

- Most questions that we discussed will use similar methods such as a linear regression to estimate the factors investigated in each question. However, we are still discussing as to which question should be improved to incorporate more methods of analysis.

Developing the project – initial evaluation

- At least one figure showing the evaluation result

```
> summary(lm1)$coefficients %>% round(4)
                Estimate Std. Error t value Pr(>|t|)
(Intercept)    42303.2993 23015.3346  1.8380   0.0682
cardiovascular   -69.8815    60.9688 -1.1462   0.2537
diabetes         565.1439  1635.2162  0.3456   0.7302
>
> lm2 = lm(total_deaths ~ cardiovascular + diabetes, developed_countries)
> summary(lm2)$coefficients %>% round(4)
                Estimate Std. Error t value Pr(>|t|)
(Intercept)    29261.1381 71887.8627  0.4070   0.6864
cardiovascular  -192.5707   337.5714 -0.5705   0.5719
diabetes        7811.5036  8124.9818  0.9614   0.3428
```

Meeting minutes

Date and time of meeting: 9/04/2022
Team members present: Gary, Ken, Eva, Amber, Pat

AGENDA

Item	Discussion (you can refer to previous slides)	Actions (who) – action points for next week
9/04/2022	For this week we went over and did an IDA for each of our questions.	
24/04/2022 (Week 9)	For this week (after break) everybody was tasked with coming up with models for their sub questions.	For next week we would like to discuss with the tutors during our Monday lab session to discuss what should we do once our models have been completed.

Next meeting date and time:
Group member responsible for finalising/submitting minutes:
To be posted on the CANVAS Individual group website

Progress and action points

– Action points from last week ... ...

- We have started producing models which answered our questions.

- Some doubts were cleared up during our consultation hour.

– Key progress over last week ...

- Our group members are almost fully completed with our models for each specified question. Next week we will be working on putting the codes together and start working on our presentation.

Figure 1: Schematic of the Project overview

Key results or message from the project / analysis

- Results 1: …
- Results 2: …
- Results 3: …

Draft or final evaluation

At least one figure illustrating one of the selected result

Meeting minutes

Date and time of meeting:
Team members present:

AGENDA

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Next meeting date and time:
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Draft of the presentation outline

- Key message of the presentations.
- …
- …

- Structure of the presentation
- …
- …

Final results or messages from the project / analysis

- Results 1: …
- Results 2: …
- …
- Results n: …

Replace this with TWO key figures for your presentations

Excluding Figure 1

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Click icon to add picture

Plan for demonstration

- Prerecording ?
- Scaffold of the demonstration.

Meeting minutes

Date and time of meeting:
Team members present:

AGENDA

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