



The progress timeline (previous)





Phase 0 (Start - 19/06)

As mentioned before, we did nothing.



Declare a path for everyone to follow & first steps diagging into the problem.

day off: 12:00 25/06 -12:00 26/06



Phase 2 (26/06 - 01/07)

Get the datasets & work with models. day offs: 19:30 01/07 -19:30 02/07

WE ARE HERE



Phase 3 (02/07 - 07/07)

Visualizations, analysys & final polishing steps.





The progress timeline (with updates)





Phase 0 (Start - 19/06)

As mentioned before, we did nothing.

Phase 1 (20/06 - 25/06)

Declare a path for everyone to follow & first steps diaging into the problem.

day off: 12:00 25/06 -12:00 26/06

Phase 2* (26/06 - 03/07)

Get the datasets & work with models.

days off: 19:30 01/07 -19:30 03/07



Phase 3 (03/07 - 09/07)

Visualizations, analysys & final polishing steps.



(*): the timeline was extended to 01/07 (1 day). The day-off phase was also 1 day more than planned.



and submit the report ~

How much have we done (approximately)?

100%

Task 1: Data obtaining

And that took a whole week. Not good. Not good.

60%

Task 2: Data analysis

No missing value, separated datasets for separated countries. That's fine.



60%

Task 3: Model building

Oy we have A WHOLE lot of tasks to get done from now.

10%

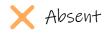
Task 4: Model analysis

Along with model building, some parts of model analysis has been achieved. That's... a good thing actually (?)



	First phase (40%)	Second phase (30%)	Third phase (30%)	Total
Hằng (Team cap)	~	~	:	65%
Vinh	~	~	:	70%
An	~	~	A	70%
Đại	~	X	A	40%
Nghiệp	~	~	÷ © ÷	70%











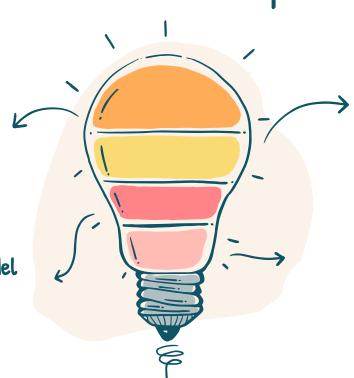
Study SIR model

Understands how it works and get the code to run on our dataset



Study Random Forest model

Understands how it works and get the code to run on our dataset (again)





Study ARIMA model

Understands how it works and get the code to run on our dataset (again)



Deal with problems from last phase (and extras)

...I'll talk about it right next.









Assigned to team captain











Problems of last phase:

✓ Not yet having the target of this project (Solved: Our target is now the number of Infected)

- □ Not yet having a question set
- □ Not yet calculating other attributes
- ✓ Not yet understanding Python model syntaxes (Solved: lol I'm sure y'all do now)
- (2 remaining)

I was not capable to solve all of them while following the model tasks. It could have been done better. (sorry guys :<)





Past problems (cont.)

Why do we need question set? We need to develop one to visualize the data and models based on it. All figures has to be the answers of something.

What about other attributes? Besides Confirmed, Deaths and Recovered, we might consider the following:

- _ Active/Infected = Confirmed Deaths Recovered
- _ Susceptible (as of basic SIR model) = Population Confirmed Deaths -

Recovered

- _ Mortality Rate
- _ Vaccination data and some more...





Uncategorized works I have done in phase 2(?)

- 1. Dig in a data source that contains extra attributes/datasets we need to prepare for visualization step. https://github.com/owid/
- 2. Made some of the basic visualizations in RapidMiner tool.
- 3. Made a list of figures we may need to make.
- 4. Follow and support all Modeling tasks.











SIR Model

Assigned to An









ARIMA Model

Assigned to Nghiep













Assigned to Vinh







BRUH

