

Group 4: Sprint 1: Sprint Items

1 Story point = 1 hour

Total PBI estimation: 107 hours

Current sprint estimation: 38 hours

Estimated velocity: 35 hours/sprint

Goal of this sprint: Implement the main functionality of the engine

Bob is an accountant living in Victoria. He is now working from home and interested in knowing when he can travel abroad again.

Alice is a doctor living in Victoria. Her job includes predicting the patient load to stock medical supplies.

Charlie is a travel agent living in Victoria. He needs information to advise customers on travel.

ID	Item	Priority	Story Points
3.1	As Charlie, I want to be able to choose a country from a drop-down menu, so I can see information for different countries	1	3
3.2	As Charlie, I want to be able to input the target vaccination rate, so I can see relevant prediction and information when the vaccination rate is as specified	2	3
3.4	As Charlie, I want to start the engine when submit button is pushed, so I can lock in my inputs	3	6
3.5	As Charlie, I want to see the estimation of cases and death rates, so I can plan travels ahead	4	2
3.6	As Charlie, I want to view the output on the same page of the engine, so I don't have to go back after	5	2
3.a	Documentation for accessing API	6	4
3.b	Design for features 1, 2 & 3	7	4
3.c	Finalising SIR model inc. vaccination rates (Documentation)	8	4
3.d	Finalising SIR model inc. vaccination rates (Implementation)	9	4
3.e	Developing product framework	10	4
3.f	Preparing test cases for engine	11	2
3.7	As Charlie, I want to see the country I am in, preselected as the default in the engine, so that I can more conveniently use the feature	12	4
3.3	As Charlie, I want to see instructions for using the engine's prediction feature, so I can use it correctly	13	2
2.3	As Alice, after choosing the country, I want to be able to see the daily cases displayed on the line graph if it is available so that I can see the cases data in a visual format	14	6
2.4	As Alice, after choosing the country, I want to be able to see the death rate displayed on the line graph if it is available so that I can see the death rate data in a visual format	15	6
2.5	As Alice, after choosing the country, I want to be able to see the vaccination rate displayed on the line graph if it is available so that I can see the vaccination data in a visual format	16	6
2.12	As Bob, I want to see a default country on the graph as the country that I am in so that I can obtain the information most relevant to me conveniently.	17	2
2.13	As Alice, after choosing the country, if any of the 3 types of information is not available, I want them to be greyed out from the list so that I know to not interact with it	18	4

2.6	As Alice, I want to be able to choose what types of data are (cases/death/vaccine) displayed on the map to only focus on the data I am interested in	19	4
2.1	As Bob, I want to be able to choose a country from the drop-down menu to be able to only see the information related to the country I am interested in.	20	3
2.14	As Bob, after choosing the country and period, I want to be able to click a button to see the graph, so that I can lock in my preferences about the graph.	21	3
2.7	As Bob, I want the graph to dynamically update its title and legends as the data options changes	22	2
2.2	As Charlie, I want the graph to display its title, axis labels and legends to make it easier to understand the graph.	23	2
2.9	As Alice, I want to be able to choose an option for the period (e.g., last week, last week, last month, last year, other) so that I save time while choosing.	24	4
2.10	As Alice, after choosing the "Other" option, I want to be able to specify the upper bound and lower bound of time-period using a calendar so that I can choose any date as the start and end	25	4
2.8	As Bob, I want different types of data to be colour coded so that I can distinguish between them when they are displayed on the same graph	26	2
2.11	As Bob, I want the colours of each the type of graph (vaccination rate, cases, and deaths) to remain consistent for different countries to understand the graph easily	27	2
1.1	As Alice, I want to immediately see the daily number of cases in large font so that I can quickly get a sense of whether I should worry about COVID flareups.	28	2
1.4	As Alice, I want to be able to view a line graph of daily COVID cases so that I can anticipate the trend and order appropriate amounts of medical supplies	29	6
1.3	As Alice, I want to be able to switch between viewing the case number and the graph by clicking on a different tab to be able to see information easily	30	3
1.2	As Alice, I want to be able to see the date for the displayed "daily case number" so that I can make my own judgement on the data's relevancy with how up to date it is.	31	2