**Group 4: Sprint 3: Sprint Items**

*1 Story point = 1 hour*

*Total PBI estimation: 107 hours*

*Current sprint estimation: 40 hours*

*Estimated velocity: 35 hours/sprint*

*Goal of this sprint: Implement the main functionality of feature 1 and refine the app and deploy the web app*

| Sprint backlog |
| --- |
| Product backlog |
| Completed |

| **ID** | **Item** | **Priority** | **Story Points** |
| --- | --- | --- | --- |
| 1.a | Extract Victoria cases data from data source | 28 | 6 |
| 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 flare ups. | 29 | 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 | 30 | 6 |
| 1.5 | As Alice, I want to see a smoothed daily COVID graph so that outlying data does not mislead my judgement of the COVID trend. | 31 | 4 |
| 1.6 | As Alice, I want to be able to choose the level of smoothness so I can have more control over the data | 32 | 2 |
| 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 | 33 | 4 |
| 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. | 34 | 2 |
| 3.3 | As Charlie, I want to see instructions for using the engine’s prediction feature, so I can use it correctly | 35 | 2 |
| 1.b | Have arrows to change the date range of the graph | 36 | 2 |
| 1.c | Adding loading effect, improve robustness and refine the product | 37 | 2 |
| 1.d | Adding info popup to smoothing and case numbers display | 38 | 2 |
| 1.e | Deploy the application | 39 | 6 |
| 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 |
| 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 Australia to be the default country so that I can obtain the information most relevant to me conveniently. | 17 | 2 |
| 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 |
| 2.11 | 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 |
| 2.15 | As a user, I want to be able to choose between regular or night mode by clicking on a floating toggle, so that I choose my own operational mode | 27 | 6 |