

## **SCRUM**

According to 2nomads.org, Scrum is like a set of rules. It's a particular implementation of the Agile philosophy. Basically, if Agile were a type of diet, Scrum would be one of the recipes that you can make to follow that diet.

Unlike what some people think, Scrum is not an acronym, although it is sometimes written in all caps. The term "Scrum" actually comes from sports. In rugby, a Scrum is a move where the entire team packs together to try to win back and retain possession of the ball. So, it simply means that Scrum is a framework that puts a lot of emphasis on teamwork.

As opposed to a conventional waterfall method, Agile is an iterative process, where each unit of work should have a short time span. The goal is to deliver working software to the customer at the end of each iteration. Then the customer will give feedback as needed and things are adjusted for the next iteration.

When using Scrum, each of these iterations is called a sprint. This is the main concept used in Scrum. Sprints are usually based on the backlog, which is a set of requirements created by the product owner and ordered by priority. The backlog may change during the entire lifespan of a project.

At first, the product owner made a product backlog. In the list were things he wants to feature on his website. The structure for the product backlog is, "As a role, I want to action, so that benefit.". Every story will be labeled as "User story #". The next page will present the product backlog.

## Product Backlog

|                       |   |
|-----------------------|---|
| <b>User Story #0</b>  | As a <i>role</i> , I want to <i>action</i> , so that <i>benefit</i> .   |
| <b>User Story #1</b>  | As the website owner, I want the users to reminisce the moments which everyone cherished during the first lockdown so that they can relive with it again. |
| <b>User Story #2</b>  | As the website owner, I want to present pictures and videos to my site so that it can support the details.  |
| <b>User Story #3</b>  | As the website owner, I want to put a search button so that users can easily accessed to the things they want to know.                                    |
| <b>User Story #4</b>  | As the website owner, I want all the things to be arranged perfectly so that it will attract more visitors and also appealing to the users.               |
| <b>User Story #5</b>  | As the website owner, I want feedbacks and recommendations on my site so that I can upgrade them according to user's comfort.                             |
| <b>User Story #6</b>  | As the website owner, I want the users to get to know the people behind the making of the website so that they will be credited accordingly.              |
| <b>User Story #7</b>  | As the website owner, I want to put all of my social media account links so that they can reach me freely.  |
| <b>User Story #8</b>  | As the website owner, I want to published significant dates so that my users will be aware of the happenings.   |
| <b>User Story #9</b>  | As a user, I want to browse the website easily so that I can find the parts I want to read.   |
| <b>User Story #10</b> | As a user, I want to read articles that are correct and reliable so that I won't be scammed or do it badly.   |
| <b>User Story #11</b> | As a user, I want a welcoming homepage so that I will be entertained at the same time can educate me.   |
| <b>User Story #12</b> | As a user, I want my opinions on the website be heard so that I can help the website owner develop his product.   |

When the backlog is created, a sprint planning meeting occurs to plan the work to be done during a sprint. The backlog is dissected and divided into logical units that are split across members of the development team. A sprint should have a maximum duration of about one month, to reduce the likelihood of changes in requirements or goals.

The sprint backlog includes the product backlog and an additional column for agile estimation. The 3 columns to be added are *story points*, *value points*, and *value for money*. This backlog will determine what user stories to be prioritized first. The *story points* refer to what the team thinks what user story is easier to do. This column will be scored by following the Fibonacci sequence. The smallest value will be given to the easier work and a larger number to the hardest one. For the *value points*, it speaks for the customer's preference. It will be scored according to the customer's point of view and what features they can benefit from or prefer more. Lastly, the last column which is *value for money*. You can have the score for this by dividing the value points by story points. The quotient will determine the rankings of user stories on the list. The user story that got the highest value among all will be prioritized first. The sprint backlog will present the updated version of the product backlog, which is now listed according to the 3 columns added. Below is the table for sprint backlog.

## Sprint Backlog

| User Story #0  | As a <i>role</i> , I want to <i>action</i> , so that <i>benefit</i> .   | Story Points | Value Points | Value for Money |
|----------------|---|--------------|--------------|-----------------|
| User Story #1  | As a user, I want my opinions on the website be heard so that I can help the website owner develop his product.   | 3            | 89           | <b>29.67</b>    |
| User Story #2  | As a user, I want to read articles that are correct and reliable so that I won't be scammed or do it badly.   | 8            | 144          | <b>18</b>       |
| User Story #3  | As a user, I want a welcoming homepage so that I will be entertained at the same time can educate me.   | 21           | 233          | <b>11.10</b>    |
| User Story #4  | As the website owner, I want feedbacks and recommendations on my site so that I can upgrade them according to user's comfort.                             | 2            | 21           | <b>10.5</b>     |
| User Story #5  | As the website owner, I want the users to get to know the people behind the making of the website so that they will be credited accordingly.              | 5            | 13           | <b>2.6</b>      |
| User Story #6  | As a user, I want to browse the website easily so that I can find the parts I want to read.   | 34           | 55           | <b>1.62</b>     |
| User Story #7  | As the website owner, I want to present pictures and videos to my site so that it can support the details.  | 1            | 1            | <b>1.00</b>     |
| User Story #8  | As the website owner, I want to put all of my social media account links so that they can reach me freely.  | 13           | 8            | <b>0.62</b>     |
| User Story #9  | As the website owner, I want all the things to be arranged perfectly so that it will attract more visitors and also appealing to the users.               | 233          | 34           | <b>0.15</b>     |
| User Story #10 | As the website owner, I want to put a search button so that users can easily accessed to the things they want to know.                                    | 89           | 5            | <b>0.06</b>     |
| User Story #11 | As the website owner, I want to published significant dates so that my users will be aware of the happenings.   | 55           | 2            | <b>0.04</b>     |
| User Story #12 | As the website owner, I want the users to reminisce the moments which everyone cherished during the first lockdown so that they can relive with it again. | 144          | 3            | <b>0.02</b>     |

### **Daily Scrum**

After the frontend is finished, the backend, which is all about the processing of data, is made in this third sprint. What I chose to be part of the backend is the newsletter feature. The newsletter portion serves as the subscription of the website visitor to the contents of the site. It gives daily or weekly updates about fresh news and fun activities.

The newsletter interface was already done during the second sprint. In this phase, the developer now did the function of the newsletter feature. It was added by name field and seconded by the email of the website visitor. The HTML file is connected to the PHP file in which holds the function of the newsletter. The PHP is the framework of the backend. It is also used to work with the database of the website.

## Sprint Review

| User Story #0  | As a <i>role</i> , I want to <i>action</i> , so that <i>benefit</i> .   | Value for money | Done | Not Done |
|----------------|---|-----------------|------|----------|
| User Story #1  | As a user, I want my opinions on the website be heard so that I can help the website owner develop his product.   | 29.67           |      |          |
| User Story #2  | As a user, I want to read articles that are correct and reliable so that I won't be scammed or do it badly.   | 18              |      |          |
| User Story #3  | As a user, I want a welcoming homepage so that I will be entertained at the same time can educate me.   | 11.10           |      |          |
| User Story #4  | As the website owner, I want feedbacks and recommendations on my site so that I can upgrade them according to user's comfort.                             | 10.5            |      |          |
| User Story #5  | As the website owner, I want the users to get to know the people behind the making of the website so that they will be credited accordingly.              | 2.6             |      |          |
| User Story #6  | As a user, I want to browse the website easily so that I can find the parts I want to read.   | 1.62            |      |          |
| User Story #7  | As the website owner, I want to present pictures and videos to my site so that it can support the details.  | 1.00            |      |          |
| User Story #8  | As the website owner, I want to put all of my social media account links so that they can reach me freely.  | 0.62            |      |          |
| User Story #9  | As the website owner, I want all the things to be arranged perfectly so that it will attract more visitors and also appealing to the users.               | 0.15            |      |          |
| User Story #10 | As the website owner, I want to put a search button so that users can easily accessed to the things they want to know.                                    | 0.06            |      |          |
| User Story #11 | As the website owner, I want to published significant dates so that my users will be aware of the happenings.   | 0.04            |      |          |
| User Story #12 | As the website owner, I want the users to reminisce the moments which everyone cherished during the first lockdown so that they can relive with it again. | 0.02            |      |          |

Almost all of the user stories were done during the second sprint. Since the users were only focused on the appearance of the site. As the site developer, I added the newsletter part to make a connection to the website visitor in which interested in the content of the page. The website serves as the user's daily newspaper. Also, fun activities were added to the daily or weekly mail to the subscribers.

### **Sprint Retrospective**

This is the last part of the making of the website. All the work intended for every sprint was done and alternatives were made to the unachieved ones. For the third sprint, the database was used as storage for the names and emails of the subscribers. The newsletter feature on the footer part of the page is powered by using the PHP framework. The website user's name and email were gathered and saved to the PHP database. After that, a PHP file is instructed to send emails to the collected user emails. The website developer can modify the message of the email and still send it to the subscribed users. This makes the users updated to the contents of the site. Some odds were unfavored to the part of the website developer, but still, the work was done. As to the developer's mission, to provide an informative and user-interactive website.