**ASSIGNMENT 1**

**BIT302**

**Software Engineering**

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**Project Proposal**

**“Web-based Application for Covid-19 Testing Information System”**

**TASK 1**

**Prepared by:**

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# Overview

In 2020, the world is being attacked by a virus called Covid-19. Covid 19 is a disease caused by the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) virus. Covid-19 can cause respiratory system disorders, ranging from mild symptoms such as flu, to lung infections, such as pneumonia. This disease is so widespread that it requires humans to maintain cleanliness, wear masks, and avoid crowded places as much as possible. There are several countries that require their people to lock down, that is, they are prohibited from leaving the house within a specified time.

Symptoms of this virus have occurred for about 1 year in the world and are still happening today, this virus has claimed many lives, some have died and some have been successfully cured. The impact of this virus is very big in terms of especially from an economic perspective, many people end up losing their jobs because there are many companies whose jobs are neglected due to the lack of income. Currently the corona virus vaccine has been found and people who have this virus must be quarantined until the disease is cured. In Indonesia, there are 2 kinds of ways to check whether humans have Covid or not, the methods used are rapid and swab tests.

For this reason, we have chosen to create a website that contains information about the covid-19 test. With this system, we hope that the Ministry of Health can find out the data for people who have done the covid test and the results released from the covid test. People who do the covid test can also see their test results through the website that we created by logging into our website.

So far, there’s some website about the covid-19 tests, but it’s display is too complex and we think it’s quite hard for some user to understand how to use the website. So, we guess it’s not the newest one but it is the better and new version for the website that contains information about covid-19 test.

The cost that we need for build this web-based application is Rp. - . And the duration for us to build the website is around 3 months.

***(Web reference :*** [***https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/testing.html***](https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/testing.html) ***nanti dicantumin di references di page akhir)***

# Project Aims

There are several aims to develop this project as listed below:

* To make the Ministry of Health easier to check the information about Covid-19 testing, because all the data has been stored on the website.
* To facilitate Covid-19 Test Centre to record patients’s Covid-19 test, by providing access to the website.
* To facilitate people who do the Covid-19 test to see the result by access the website. And they also can update their test result, record new test, and see the record history by login into the website.

# Project Objectives

* Finding the right programming language and tools required for the project.
* To build and create friendly display so the user who wants to use the website to track easier to use the website.
* To build and create the effective website that contains correct information about Covid-19 and the patients.
* to put valid and correct data in accordance with the use case design and database design for this web.
* After the website finish and complete, it will help the patient to check their last status.
* To help the medical center handle every Covid-19 patient with different status.

# Project Scope

|  |
| --- |
| **Project Title: Web-based Application for Covid-19 Testing Information System**  **Date:** 21 February 2021  **Prepared by:** Ricko Putranda Pandit, rickoismyfriend@gmail.com |
| **Project Summary and Justification:**  The CIS (**Covid-19 Information System**) Website will able to help the patient who wants to check and track their status for this covid-19 by log in to the website. And also, to help the medical center to check and track the patients status using the data that contains inside the database of the website. |
| **Product Characteristics and Requirements:**   1. A fully function web-based applications that is able to make both of output and input 2. Simple and attractive design that can be understood by the users 3. This web-based application will be tested first to avoid any bugs and errors |
| **Summary of Project Deliverables**  **Project management-related deliverables:** Project Aims, Project Objectives, Project Scope, Project Schedule, WBS (**Work Breakdown Structure**), Milestone/Deliverable, Design and testing documentation, fully functional Web-based Covid-19 Information System, presentation of the final project.  **Product-related deliverables:**   1. Accessibility for Medical Center to manage patient test and status, and patient to view test history and the status on the website. 2. The website will using feature patient login, and information like their information of their status with a simple and friendly display. |
| **Project Success Criteria:**  The project should be completed on its deadline which is in 3 months. The project will meet it success if the website operated clearly and the data stored in the correct database so it won’t make any bugs or incorrect information. To summarize, the main success criteria is a good or excellent end result of the project. |

# Project Schedule

# 5.1 Work Breakdown Structure

1. Initiating Task
   1. Understanding Topic
   2. Overview and Project Background
   3. Identify Project Aims and Project Objectives
   4. Develop Project Scope (Milestone)
2. Planning Task
   1. Work Breakdown Structure
   2. Milestone/Deliverables
   3. Baseline Gantt Chart
   4. Define Technical Required
   5. Define Development Platform
   6. Define Demonstration Platform
   7. Risk Management plan
   8. Use Case Diagram
   9. Analyze Class Diagram
   10. Expanded Use Case
   11. System Sequence Diagrams and Contracts
   12. Assignment 1 Submission (Milestone)

# Milestone / Deliverable

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Milestones** | **Project Phase** | **Expected Completion Date** |
| 1 | Complete Initiating Task | Initiating Task | 22/02/2021 |
| 2 | Assignment 1 Submission | Planning Task | 07/03/2020 |