Temasek Polytechnic

School of Informatics & IT

**Diploma in Big Data Management and Governance**

AY2020/2021 Semester Level 3

MP Terms of Reference

**Project Particulars**

|  |  |
| --- | --- |
| **MP Supervisor** | Mr Percy Wong |
| **Project Title** |  |
| **Student Matric Card Number** | 1802737E |
| **Student Name** | Wang Wei Long |

**1. Introduction**

*Write a short introduction to the project. You may include information such as the purpose of the project, any relevant background information, the users and usage of the system, brief description of problems faced thereby leading to the need for this system, etc.*

The purpose of this project is to improve the efficiency and productivity on performing checks of existing products and reference structures created in the past. It involves retrieving information from a website/(research on what iDeal is) which contains information of products that are still in production, pioneer structures created which acts as a blueprint/reference for future products that are similar. The report generated is used by the entire division with the specific products found in the database section retrieved and is used to identify product technical information mismatch of structures created for the last month. The aim for this report is to help identify technical information mismatches, summarise number of existing structures issues to increase operational efficiency and identify issues in time to nip the problem in the bud/avoid unnecessary operating costs due to operational issues.

Increase efficiency of generating KPI report and create alerts if KPI fall below desired level

Replace Excel with Tableau for visualizing and analysing data

**2. Objectives of the Project**

Describe the objectives that you want to achieve through this project. Objectives may be both technical and non-technical.

The main objective for this project is to identify any issues due to human error before the products are being sent for production, reduce the lead time and provide a summarised, condensed visualization of issues found to the division. This will then allow timely actions to be taken to solve the issues and better throughput for the company.

It is to also to strive for better KPIs in the company and reduce the amount of manual work needed to perform these checks and introduce automation for such tasks

**Can use VLOOKUP to compare the values for Line Text, SD and MA based on the Create Date**

**3. Scope of the Project**

Describe the work to be done on this project. This description does not need to be detailed; it can simply be a few sentences that give a general explanation.

To ensure that the project can be done, I will be doing some research on Excel VBA and functions such as VLOOKUP to be able to perform my duties and work efficiently and fulfil the requirements of the project. It will also require me to think critically and brainstorm for ideas, think out of the box to solve the problem other than the methods mentioned. I will also be doing more research and reading up of Tableau functionalities, automation and how to maximize the project scope and learn more during the internship period.

**Update**

Automation can also be done through UIPath after identifying the tasks needed and restructuring the approach to how the problem can be solved other than using macros due to the requirements of processing power needed for macros on a massive amount of data.

**4. Project Plan**

Fill in the detailed schedule of your project in the table below. Add or delete the rows accordingly.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task no | Description | Start Date | End Date | Duration |
| 1 | Conduct research on the first approach (using formulas and macros in Excel) to automate the task of identifying errors of structures. | 23/9/2020 | 28/9/2020 | 6 days |
| 2 |  |  |  |  |
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