**Abstract – 200 words**

**Motivation for the project**

**Business intelligent know your business better and show the performance to customers to boost the confidence of their and win a stable and long term business relationship.**

**In today’s society people are spending an increasing amount of time on technology and are becoming less in touch with their emotions. Emotions make individuals who they are and it’s important in this advancing world that we stay aware of our emotions. This project aims to inform individuals about emotions based on an idea developed by Robert Plutchik called The Wheel of Emotions. The method for achieving this aim is creating a web based application running on local host which can be used to pull out data and generate reports in PDF format. This application enables users to obtain KPI indicators automatically and generate graphs for further analysis. Through the development of this application individuals would now be able to easily and quickly generate reports and deliver it to their customers and suppliers further their understanding of business performance.**

**Introduction**

**Initial idea**

**Creating a desktop application automatically pull out the certain data that match user’s requirement. Using python as the programming language with other open source python library and Visualise with d3.js.**

**Product: web application run on local host. No internet required secure the data.**

**Aim and Objectives**

**Provide a solution to the business analyst of Yusen logistics that help them to efficiently and accurately generate straightforward reports that show the business performance by visualise main KPI indicators for their customers and suppliers.**

**Background**

**The Problem**

**Manual typing-data format**

**Existing Solutions**

**Microsoft VBA creating macros to locate the data and generating graphs. But with macros the excel will experience crushes.**

**Requirement:**

**Reduce time of creating report.**

**Generate report by customize time span.**

**+邮件内容**

**Why this method – +表格对比**

**System is updating.**

**Click view in the future**

**More flexible and much easier to generate the report like choose a random time span, performance of different hauliers**

**Project management**

**Time – Gantt chat -record developing stage, milestone**

**Notes on the technical problems, solutions to the problems.**

**Communication with customers – make sure fully understand the requirements**

**Onsite**

**Email**

**Telephone**

**Suggestions to customers that could make the application work and the reason expected result of this application.**

**Communication and discussion with supervisor**

**Achievement each week**

**Problems encountered**

**Developing process**

**Developing plans**

**Stage1 understand the data, customer requirement and do research for proper programming tool and learn to use necessary libraries to assist in developing the application.**

**Stage2 data manipulation, graph and final report generation**

**Stage3 apply back end code to user interface**

**Method for development**

**Tools**

**Problems encountered**

**Format, scale the axis,**

**Learning outcomes-reflection-has developed insight and understanding**

**Learning new tool for web application developing, consolidate and apply the knowledge learned through the year to practice.**

**Python version 3.5 and python library including Pandas, Matplotlib for visualize, web application framework like flask and html template like Jinja2.**

**Application**

**Back-end**

**Front -end:**

**Design**

**Introduction**

**Simple instruction**

**user Interface:**

**design**

**how it should work**

**problems**

**drop down menu to select**

**output the report to PDF**

**instruction for users**

**how to install essential tools**

**how to use the application**

**where they can keep original file ready for exact by the application**

**important message:**

**month data format**

**float number format**

**blank cell**