# Computer Science Assignment – YR12S2 Oscar Rymarczyk

Investigate Phase

**Development Schedule:** [Development Schedule.xlsx](file:///C:\Users\oscar\OneDrive\Desktop\Computer%20Science\Year%2012%20Computer%20Science%20Assignment%20S2\Development%20Schedule.xlsx)

**Problem Outline**

The task is to develop a new online business for a family member, to do this a software solution is required to manage customers and record sales information. The family member is looking to open a delivery business for the small town that they live in so that customers can order food and have it delivered to them. So, the objective of this would be to create a software for this online business which fulfils all the requirements asked by the family member and provides a very user-friendly graphical user interface for users.

**Problem Description**

To develop a solution for this problem, a software will be created to hold the requirements of this scenario. For this, it is essential that we include functions such as customer management and a record of sales information as part of this software solution. Additionally, the software will include an ordering system for customers to use to allow delivery to their homes from an online process.

**Requirements List:** [Requirements List.xlsx](Requirements%20List.xlsx)

**Ethical/Legal/Security Issues:** [Ethical Legal Security Issues.xlsx](Ethical%20Legal%20Security%20Issues.xlsx)

**Data Quality:** Many factors can impact the quality of the data in the solution these factors may include:

* **Data Entry Errors**: manual input errors by users, lack of proper validation mechanisms.
* **Inconsistent Data Formats**: variability in data formats (e.g., date, currency) across different entries, absence of standardised data input protocols,
* **Incomplete Data**: missing required fields or incomplete records, lack of mandatory field enforcement during data collection.
* **Data Redundancy**: duplicate entries in the database, inadequate deduplication processes.
* **Outdated Data**: information not updated in a timely manner.
* **Data Security Issues**: unauthorised access leading to data manipulation or loss, insufficient encryption and security measures.
* **Human Factors:** user fatigue or oversight leading to data entry mistakes, insufficient supervision or quality checks.