

Level 2 - Kyle de Vos (KD23040008523)

L2T13 – Capstone Project I

Date: 4 July 2023

Requirements Elicitation

Project: Book Management System for Book Store

A Bookstore requires a system to manage books in stock utilising a database.

Characteristics of Book to track

- Id (unique for each book)
- Title – Title of Book
- Author
- Quantity

Functionality:

- Provide a Main Menu Interface
- Allow user to:
 - Add a new book
 - Update details of a book in stock
 - Delete a book currently in stock
 - Search for a book
- Option to close application
- Task has made reference to the use of a Database
- Task has requested only one table in this database (Further Analysis may result in the creation of more tables). This one table tracks Book characteristics as specified above

Observations and Details

- User requirements do not include price information as system is required to only track a book in the system and not monitor costs
- In addition to the above, this system does not perform income, loss, profit, tax, etc calculations (There are no user requirements for financing)
- User-login or multiple system users not requested
- Task has given one, simple table with four fields. It is likely that only one table will be used, but checks for Normalization (considering Agility and future feature additions) will be completed to confirm.

- Initial thoughts are to utilise interfaces and classes – this is a foundation database management system but the potential to upgrade it is significant. Development must ensure future feature additions or current feature modifications can be completed with the least required effort and cost.
- Program will be written in Python utilising SQLite for Database Management and control. A single database file is sufficient.