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COMP 4911
Bookdex: Design Document
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1 Preface

The following document contains justifications and explanations of the decisions made during the development of Bookdex.

Acronyms are often used throughout this document. Common acronyms include:

- **TDS**: Tabular Data Stream Protocol
- **GUI**: Graphical User Interface
- **UML**: Unified Modeling Language
- **I/O or IO**: Input/Output

2 Development Plan

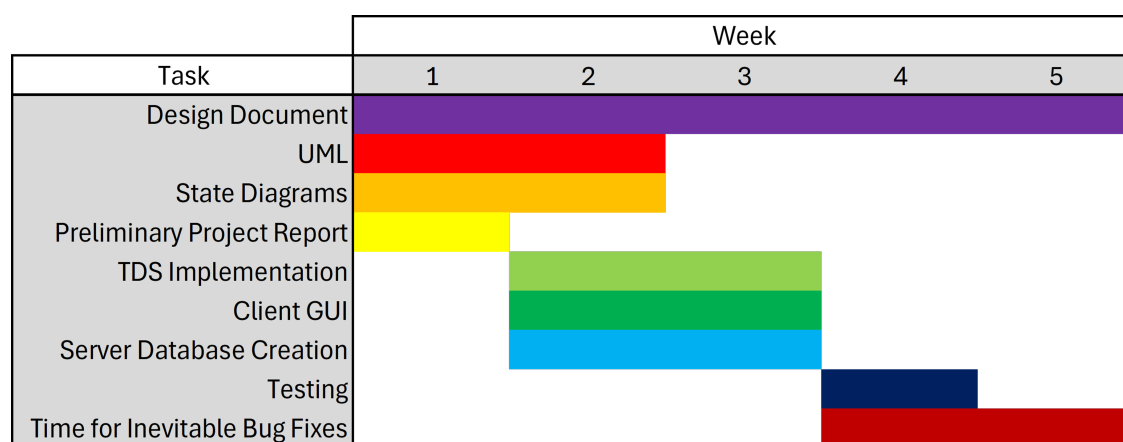


Figure 1: Gantt chart outline for the development plan for Bookdex.

3 UML Class Diagrams

Recognizing that this is difficult to see, .png versions have been uploaded to the [GitHub repository](#) for for this project.

The (current) UML class diagram for the TDS protocol is shown in Figure 3.

4 Retrospectives

4.1 Week 1

This week began with work on the UML class diagram for the TDS protocol. During its creation, reference **INSERT TDS MANUAL REFERENCE** was consulted regularly. This slowed progress as the TDS protocol is nuanced. For example, there are a handful of different types of tokens to be used when transmitting a token stream, each with their own rules. To add to this, not all messages transmitted are token streams. Decomposing the intricate case-work into meaningful classes has helped with understanding the protocol overall.

As seen in Section 3, various timers are used by the client to ensure the client is not waiting too long for a response from the server. It's important to note that TDS does not require these timers. Initial implementation will omit these timers for simplicity's and time's sake.

