Preface

The proliferation of web technologies in recent years has led to a surge in the development of web-based applications, especially in the domain of e-commerce. Among these technologies, web services have emerged as a popular means of creating interoperable, machine-to-machine communication over the Internet.

In the context of the online bookstore industry, web services play a crucial role in enabling smooth and seamless interaction between various software applications. ASMX web services, in particular, provide a simple yet powerful platform for creating and consuming web services in the .NET framework.

The objective of this master thesis is to explore the design and implementation of ASMX web services for an online bookstore, with the creation of a jQuery client to interact with these services. The study will investigate the underlying principles of web services, their architecture, and their role in modern web applications.

The thesis will start with a detailed review of the existing literature on web services, covering both theoretical and practical aspects of their design and implementation. This literature review will lay the foundation for the development of the proposed solution, by providing a comprehensive understanding of the challenges and opportunities associated with the use of web services in e-commerce.

The next section of the thesis will focus on the design and development of the ASMX web services for the online bookstore. This will involve the creation of a set of web services that expose the various functionalities of the bookstore, such as search, browse, and purchase. The services will be designed using industry-standard techniques and best practices, with a focus on scalability, reliability, and security.

The final section of the thesis will describe the development of a jQuery client for interacting with the ASMX web services. The client will be designed to provide a user-friendly and intuitive interface for the users of the online bookstore, allowing them to easily search for books, browse through the available options, and make purchases securely.

Overall, this master thesis aims to contribute to the knowledge and understanding of web services in the context of e-commerce, specifically in the domain of online bookstores. The study will provide valuable insights into the design and implementation of ASMX web services, and the development of jQuery clients to interact with them, with potential applications in various other domains.