**Abstract: NovelCart**

The NovelCart is a feature-rich web platform designed to enhance the book-buying experience for users. It leverages modern technologies and follows a robust architecture, aiming to provide a seamless, secure, and enjoyable book-buying journey for users, backed by a robust technical foundation.

The website categorizes books into genres such as fiction, biography, fantasy, romance, mystery, and more. Users can explore these categories to discover their favourite books. A powerful search engine enables users to find books by title, author, genre, or keywords. Search results display relevant books along with detailed information. Price filtering is another useful feature. Users can filter books based on price ranges, simplifying book discovery within budget constraints.

User and admin authentication is a key feature of NovelCart. Users can create accounts and log in. Authenticated users can add books to their cart, view order history. Administrators have exclusive access to manage novel inventory. They can add new novels and update prices.

The platform also offers an “Add to Cart” and checkout feature. Users can add books to their shopping cart while browsing. The cart retains selected items until the user proceeds to checkout. During checkout, users provide shipping details and select payment options.

The technology stack of NovelCart includes Angular and Bootstrap for the front end, ASP.NET Web API for the service layer, C# Class Library for the business layer, and Entity Framework (EF) Code First for the data access layer. The back end is powered by SQL Server 2019, and the development tools include Visual Studio 2022.