1. **Project Information**

Graduation Project Proposal Form

* + **Project Title: E Book Store**
  + **Course/Track:** .Net Web development
  + **Team Members:**
    1. Mohamed Ahmed Sayed Badawy
    2. Mohamed Zaki Lotfy
    3. Abdallah Hussein Ibrahim
    4. Mohamed Abdel Nasser
    5. Saif eldeen Mohamed Fathy
    6. Mohamed Emad
    7. Youssif Mohamed Mahmoud

1. **Project Overview**

**Objective:**

To develop an e-commerce platform for selling books, providing users with a seamless experience to browse, purchase, and review a wide variety of books online. The platform will cater to both physical and digital books, supporting multiple genres, authors, and publishers. Each book category (genre or section) will have a dedicated supervisor responsible for managing the content, inventory, and promotions for that section  
**Scope of Work:**

Design and develop a responsive and user-friendly front-end for browsing, searching, and purchasing books. Develop an admin panel for managing books, orders, customers, and reviews. Build .NET Core-based backend for handling book inventory, user accounts, order management and administrative tasks. Implement role-based access control, allowing supervisors to manage only their assigned book sections (genres/categories).  
**Expected Outcomes:**

A fully functional e-commerce website that supports book purchases, user reviews, and secure transactions. Supervisors have dedicated access to manage specific book sections (adding, editing, or removing books). An admin interface with role-based access for both general admins and section supervisors.

1. **Problem Statement**

Many online bookstores lack the ability to assign specialized management to different book sections, leading to inefficiencies in inventory control, promotions, and user engagement. Bookstores often fail to provide the correct managerial oversight for each genre or category, causing underperformance in certain sections. Customers may not find relevant recommendations or experience targeted promotions due to the lack of specialized attention to different book sections.

1. **Proposed Solution**

**Technologies Used:**

**Backend:** ASP.NET Core for the backend API development.  
**Frontend:** HTML, CSS, JavaScript.  
**Database:** SQL Server or MySQL with Entity Framework Core for ORM

**System Architecture:**

* **Client Layer (Frontend):** Users interact with the website via their browsers or mobile devices. RESTful APIs are used to communicate between the client and server. **Application Layer (Backend):** ASP.NET Core handles business logic, user authentication, product management, and communication with the database. Supervisors have limited access to manage their assigned book categories (based on role-based access control).
* **Data Layer (Database):** SQL Server or MySQL stores user data, book details, orders, reviews, inventory, and supervisor assignments.  
  Entity Framework Core provides seamless communication between the application and the database. Each book entry is linked to a specific category, and supervisors are assigned to manage only their sections.
* **Admin Layer:** General admins can access the entire system and manage books, orders, customers, and supervisors. Supervisors are restricted to manage books within their assigned sections, including adding, editing, or removing books in that genre. The system tracks actions and logs for transparency, ensuring that supervisors can only manage their assigned section.

**Resources Needed:**

**Software:** ASP.NET Core SDK for backend development. SQL Server or MySQL for the database. Entity Framework Core for database interaction. Visual Studio for development.

**Hardware:** Development machines with Windows OS for .NET Core development.

**Approval**

* + **Instructor/Advisor:** ……………………………………………………………….....................................
  + **Signature:** ……………………………………………………………………………………………………………..