

# **Problem Statement**

## **Online Book Store (CatLog Management System)**

### Project Description

The Online Book Store is a CatLog management system designed to manage and display books available in a store. The application allows administrators to manage book details such as title, author, price, and stock, while users can browse and search for books.

Angular is used to build a dynamic and responsive frontend, while the backend is implemented using Spring Boot with RESTful services. Spring Data JPA simplifies database access. The application is packaged as a Docker container and deployed on Azure for high availability.

### Key Objectives

- ❑ Maintain an organized book CatLog
- ❑ Enable fast search and update of book information

### Core Functionalities

- ❑ Add, update, delete book records
- ❑ Search books by title or author
- ❑ View available stock and pricing
- ❑ Data validation and error handling

### Technology Stack

- ❑ Frontend: Angular
- ❑ Backend: Spring Boot, Spring Data JPA
- ❑ Database: PostgreSQL / MySQL
- ❑ DevOps: Docker, Azure App Service