# CHAPTER 7 MODULES

The modules that could be included in the proposed Gesture Controlled Volume Adjustment Project:

### User Authentication Module:

This module handles user authentication, including account creation, logging in, and logging out. It ensures secure access to the website by allowing users to create accounts and sign in with their credentials. Within this module, users can update their personal information, such as name, email, and password, as well as view their order history and manage account settings.

### Book Browsing and Search Module :

The Gesture Recognition Module builds on the hand detection data by focusing on specific key points, particularly the tips of the index finger and thumb. The module calculates the distance between these two points to determine the user's gesture. This distance is then mapped to corresponding volume levels, effectively translating the user's hand movement into a control signal. The gesture recognition process is designed to be responsive and accurate, ensuring that small changes in finger positioning are correctly interpreted and reflected in the system’s volume adjustments.

### Sell Book Module:

The Sell Book Module empowers users and vendors to list their books for sale. It features a form for entering book details, uploading images, and setting prices. Additionally, the Vendor Dashboard allows sellers to manage their listings, track sales, and update book information. This module supports a community-driven marketplace, enabling a dynamic and interactive selling environment.