


Abstract geometric lines in white on a black background, forming various polygons and intersecting lines.

ONLINE STORE MANAGEMENT SYSTEM

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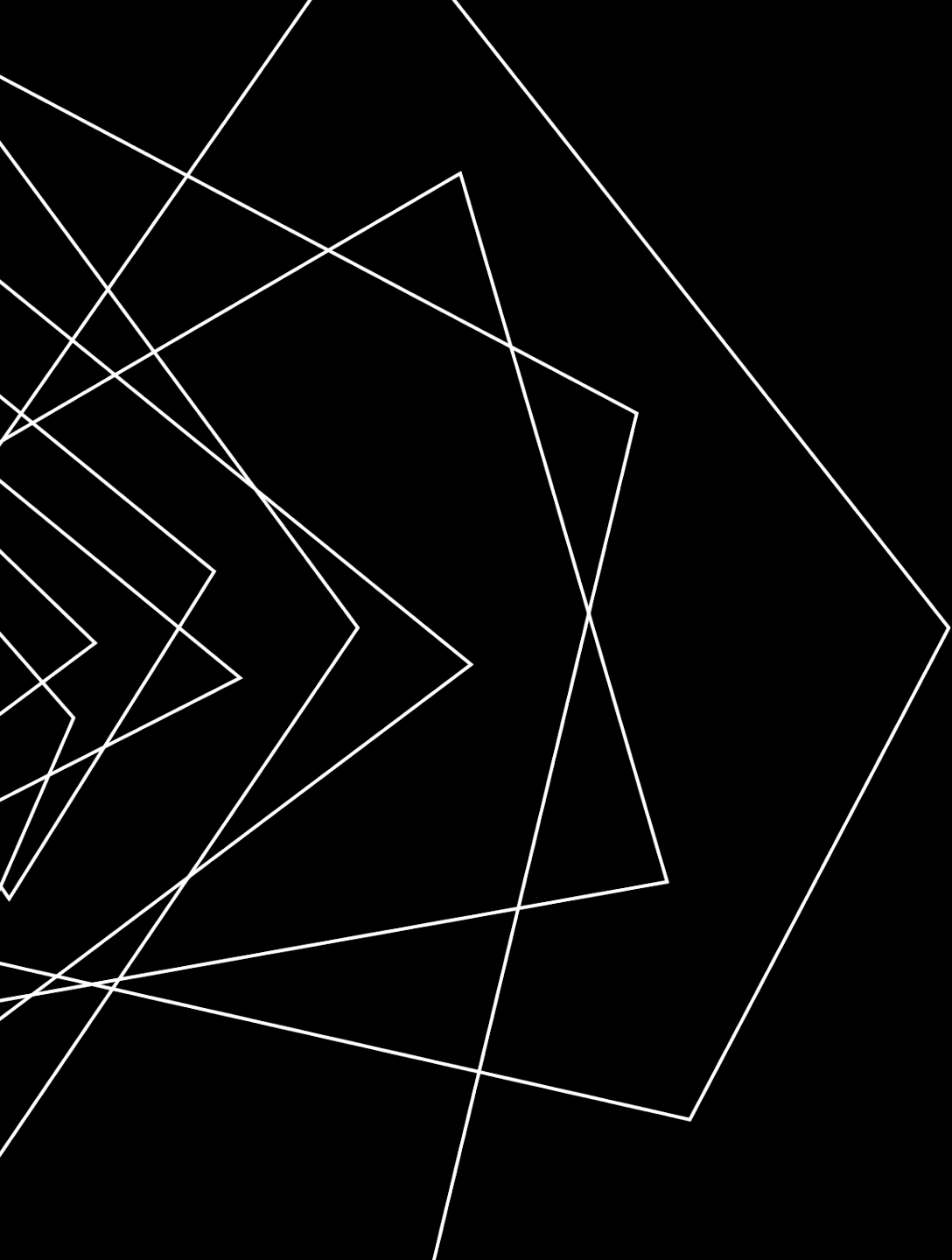
PROBLEM STATEMENT

- Managing products, stock, and orders is a critical challenge for e-commerce businesses.
 - Users need an easy way to:
 - i. Search for products.
 - ii. Place orders.
 - iii. Track order details.
 - Administrators need tools to:
 - Add/delete products.
 - Update stock.
 - Dispatch and manage orders.
 - A solution must efficiently handle large product catalogs, order queues, and admin controls.
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SOLUTION

The program uses Data Structures and Algorithms (DSA) to solve the problem efficiently:

- **Binary Search Tree (BST):**
 - Efficiently stores and searches products based on product id and name
- **Queue (Linked List):**
 - Manages orders in a First-In-First-Out (FIFO) manner.
- **Key Features:**
 - **User Panel:**
 - Search for products.
 - Place orders.
 - View orders with the total price.
 - **Admin Panel:**
 - Add/Delete products.
 - Update stock.
 - View checkout history.
 - Dispatch and remove orders.
 - Secure access to the admin panel via a **4-digit PIN**.



THANK YOU