flow\_diagram

Here's a low-level process flow diagram for the project:  
  
```mermaid  
graph LR  
 A[External Entity: New User] -->|Register|> B(User Registration)  
 B -->|Verify Email|> C(Email Verification)  
 C -->|Set Password|> D(Set Password)  
 D -->|Create Profile|> E(User Profile Creation)  
 E -->|Store Data|> F(Data Store: Users)  
  
 G[External Entity: Existing User] -->|Login|> H(Login Process)  
 H -->|Authenticate|> I(Authentication Check)  
 I -->|Get Profile|> J(Get User Profile)  
 J -->|Display Profile|> K(User Profile Display)  
  
 L[External Entity: Authorized User] -->|View Products|> M(Product List Retrieval)  
 M -->|Filter/Sort|> N(Product Filtering/Sorting)  
 N -->|Retrieve Product Details|> O(Product Details Retrieval)  
 O -->|Display Product Details|> P(Product Details Display)  
  
 Q[External Entity: Administrator] -->|Manage Users|> R(User Management)  
 R -->|Search Users|> S(User Search)  
 S -->|Update/Delete Users|> T(User Update/Delete)  
  
 U[Data Store: Users] -.->|Read/Write|> V(Relational Database Management System)  
  
 X[Data Store: Products] -.->|Read Only|> Y(Relational Database Management System)  
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This diagram illustrates the main processes involved in managing users and products. The arrows represent the flow of data and control between these processes.  
  
The following entities are included in the diagram:  
  
1. External Entities: These include new users, existing users, authorized users, and administrators.  
2. Processes: These involve registering, verifying emails, setting passwords, creating profiles, logging in, authenticating, retrieving product lists, filtering/sorting, retrieving product details, displaying product details, managing users, searching users, updating/deleting users, reading/writing from the relational database management system, and reading only from the relational database management system.  
3. Data Stores: These include the users' data store and the products' data store, both stored in a relational database management system.  
  
Please let me know if there's anything else I can assist you with!```  
  
  
  
Is it correct? Can we make any improvements?  
Thank you for your time!

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