**Project Name:**  
Ecothread Exchange - Sustainable Fashion for a Greener Tomorrow

**Project Statement:**  
A web application where users exchange pre-loved clothing. Implement user profiles, item listings (with photos), search functionalities. Once users agree on what to give in exchange for what to get, they can finish their transaction.

**Technologies Used:**

* **Frontend:** Angular
* **Backend:** Node.js with Express.js
* **Database:** MongoDB
* **Other Tools & Libraries:** Multer for file uploads, JSON Web Token (JWT) for authentication, Nodemailer for email services, and bcrypt for password hashing.

**User Functionalities:**

1. **User Registration and Activation:**  
   Users must register by providing their name, email, and password. Upon registration, an activation link is sent to the user’s email. Users must click the activation link to activate their account. Only activated accounts are allowed to log in.
2. **User Login:**  
   Users can log in using their registered email and password after activating their account.
3. **My Items:**  
   Users can view their own listed items, add new items, and manage existing ones.
4. **All Items:**  
   Users can explore items listed by others and initiate trades by proposing an exchange.
5. **Trades:**
   * **Proposed By You:** Displays trades initiated by the user. Users can monitor the status of their proposals.
   * **Proposed To You(Trade Offers):** Displays trades proposed by other users to the logged-in user. Options to accept or reject these proposals are available.
6. **Search Functionality:**  
   Users can search items based on multiple criteria:
   * **By Title, Size, or Condition:** Filter items by key attributes.
   * **Exact Match:** Refine searches for precise matches.
   * **Posted After:** Filter items based on the date they were added.
7. **Forgot Password and Reset Option**: If users forget their password, they can click the "Forgot Password" link on the login page. A reset link will be sent to their registered email, where they can reset their password and regain access.

**Admin Functionalities:**

1. **Admin Login:**  
   Admins can log in using their registered email and password.
2. **All Items:**  
   Admins can view all listed items and have the authority to block or unblock specific items.
3. **User Management:**  
   Admins can suspend or reinstate users. Suspended users are unable to log in until their account is reinstated.
4. **Search Functionality:**  
   Similar to users, admins can also search items using the following criteria:
   * **By Title, Size, or Condition:** Locate items based on details.
   * **Exact Match:** Refine results for accurate matching.
   * **Posted After:** Search items added after a specified date.

**Important Notes:**

* Admins do not have trading capabilities and can only oversee and manage user activities.
* Email notifications are implemented for account activation and password reset functionalities.

This project, built using a combination of modern technologies, offers an eco-friendly way for individuals to exchange pre-loved clothing while ensuring a secure and user-friendly experience for all participants.