Project Business analysis Document

# Functional requirements

Please review the list below and let me know if any additional details are required or if everything looks good.  
  
| \*\*Functional Area\*\* | \*\*Requirement\*\* |  
| --- | --- |  
| User Registration/Login | Users must be able to register and log in to their account<br>Users must receive a confirmation email after successful registration<br>Users must be able to log out of their account |  
| Shopping Cart | A shopping cart feature that allows users to add products and view their total cost<br>Users must be able to modify quantities before checking out<br>Users must be able to remove items from their cart |  
| Payment Gateway Integration | Integration with a third-party payment gateway (e.g., Stripe, PayPal) for secure transactions<br>Users must be able to enter their payment details during checkout<br>Payment gateway must process payments successfully |  
| Product Catalog | A database of electric bikes and accessories with detailed descriptions and images<br>Users must be able to browse through categories or search by keyword<br>Product pages must include pricing and call-to-action buttons for purchasing |  
| Order Management | Users must be able to place orders and track their status<br>Orders must be visible to administrators for monitoring and approval<br>Order statuses must be updateable by administrators |  
| Customer Account Management | Users must be able to manage their personal information and order history<br>Administrators must be able to manage customer accounts and reset passwords |  
| Promotion Management | Ability to create and manage promotional campaigns for products or categories<br>Promotions must be visible on product pages and in the shopping cart<br>Promotion rules must be configurable by administrators |  
| Search Engine Optimization | Implement SEO best practices throughout the site<br>Search engine visibility and ranking must improve over time |  
| Responsive Design | Ensure that the website is responsive and works well on various devices and screen sizes<br>Mobile-friendliness must be tested and verified |  
| Security | Implement security measures to protect user data and prevent fraudulent activities<br>Data encryption must be used during transmission and storage<br>Security vulnerabilities must be identified and addressed promptly |  
  
Please let me know if there are any questions or concerns about these functional requirements.

# User interfaces

Great! Please provide details for each interface type below:  
  
UI/UX Requirements:  
  
### Register/Login Interface  
  
\* A simple and straightforward register/login form that allows users to easily sign up or log in to their account.  
\* A login page with a prominent error message if the username or password is incorrect.  
\* A success message after successful login.  
  
### Product Listing Interface  
  
\* A grid view of products with images, names, prices, and short descriptions.  
\* A filter option to sort products by price, name, or category.  
\* A pagination system to display multiple pages of products.  
  
### Shopping Cart Interface  
  
\* A summary of items in the shopping cart, including quantities and prices.  
\* An option to remove items from the cart.  
\* A total cost of the order at checkout.  
  
### Inventory Management Interface  
  
\* A dashboard to manage inventory levels, including quantity and availability.  
\* A feature to add or remove products from the inventory.  
  
### Customer Review Interface  
  
\* A dedicated section for customers to leave reviews of products they have purchased.  
\* A rating system with stars (e.g., 1-5).  
\* Text fields for customers to write their review.  
  
### Custom Content Management Interface  
  
\* A backend portal for administrators to manage custom content (e.g., blog posts, articles, etc.).  
\* A frontend interface for users to view and consume custom content.  
  
Any other questions or clarifications?

# Use case

Great, let's dive into the details of the Electric Store project!  
  
Can you please describe the following use cases:  
  
### User Interface Types  
  
\* \*\*Homepage\*\*  
 + Display featured products  
 + Show latest deals/discounts  
 + Provide easy navigation to other pages  
\* \*\*Product Page\*\*  
 + Display product details (name, price, description, images)  
 + Include add-to-cart button and quantity selector  
 + Allow users to view similar products  
\* \*\*Cart\*\*  
 + Display current cart contents  
 + Include total cost and tax calculation  
 + Offer options to update quantities or remove items  
\* \*\*Checkout\*\*  
 + Guide users through payment process (shipping address, billing address, etc.)  
 + Provide option to save payment method for future purchases  
 + Include confirmation page after successful payment  
\* \*\*Login/Registration\*\*  
 + Allow users to register new account  
 + Log users in after successful authentication  
 + Recover forgotten passwords  
  
What are the specific technical requirements for each of these use cases?