Project Business analysis Document

# Functional requirements

Hi! How can I assist you today?

# User interfaces

Provide a detailed description of how chatbots will be integrated into the application.  
 Security: Outline the measures taken to ensure data protection and prevent unauthorized access to sensitive information.  
 Performance: Describe performance-related aspects like server capacity, database storage, caching, and scalability.  
 Database Design: Explain the chosen database schema and its components.  
 API Integration: Specify which APIs will be used, their functionality, and how they'll interact with your application.  
 Deployment Strategy: Discuss the deployment strategy for the application, including infrastructure setup, environment configuration, and continuous integration.  
 Maintenance and Support: Outline the plan for maintenance and support, including bug fixes, updates, and future enhancements.  
 Data Storage: Specify where data will be stored, what type of data it will contain, and how it will be accessed.  
 Server Configuration: Detail the server configuration, including operating system, web server, and other essential settings.  
 Caching Mechanisms: Describe the caching mechanisms used to improve performance.  
 Scalability: Outline strategies for scaling the application horizontally and vertically.  
 Load Balancing: Explain how load balancing will be achieved, including techniques and tools used.  
 Monitoring and Logging: Describe the monitoring and logging mechanism used to track application performance and identify issues.  
 Backup and Recovery: Outline the backup and recovery process for critical data and systems.  
 Disaster Recovery: Discuss disaster recovery plans and procedures in place for unexpected events.  
 Quality Assurance: Outline quality assurance processes, including unit tests, integration tests, and manual testing.  
 Code Review: Describe code review processes and how they will ensure high-quality code.  
 Continuous Integration: Discuss continuous integration practices, including automated builds, deployments, and testing.  
 Version Control System: Specify the version control system used and how it will facilitate collaboration and tracking changes.  
 Development Framework: Choose a suitable development framework and explain why it was selected.  
 Content Management System: Specify whether a custom CMS or existing one will be used.  
 Font, Color Palette, and Design: Define the visual identity of the application, including font family, font size, color palette, and overall design.  
 Customization Options: Outline customization options available for users, such as themes, layouts, and personalization features.  
 Accessibility Features: Specify accessibility features implemented, such as screen reader compatibility, keyboard-only navigation, and high contrast mode.  
 Mobile Compatibility: Discuss mobile compatibility, including responsive design and touch-friendly interfaces.  
 Browser Compatibility: Outline browser compatibility, including supported browsers and versions.  
 Search Functionality: Describe search functionality, including filters, sorting, and searching by attributes.  
 Sorting and Filtering: Outline sorting and filtering capabilities, including default sorting orders and filterable fields.  
 Pagination: Describe pagination mechanics, including number of items per page and next/previous links.  
 Error Handling: Outline error handling approaches, including error messages, debugging logs, and retry mechanisms.  
 Internationalization: Discuss internationalization considerations, including language support, date formats, and currency symbols.  
 Localization: Outline localization strategies, including translation files, formatting rules, and cultural adaptations.  
 Payment Gateway Integration: Specify payment gateways integrated and describe their roles in the application.  
 Shipping and Fulfillment: Outline shipping and fulfillment processes, including calculation algorithms, carrier integrations, and order status updates.  
 Inventory Management: Describe inventory management features, including stock levels, reorder points, and low-stock alerts.  
 Customer Management: Outline customer management capabilities, including profile editing, address book, and loyalty programs.  
 Order Tracking: Describe order tracking features, including shipment notifications, delivery estimates, and package tracking numbers.  
 Product Reviews: Outline product reviews feature, including rating systems, comment sections, and moderation policies.  
 Wishlists: Describe wishlist features, including adding/removing products, saving, and sharing lists.  
 Gift Cards: Outline gift card features, including purchasing, redeeming, and balance tracking.  
 Refunds and Returns: Describe refunds and returns policies, including processing timelines, fees, and restocking charges.  
 Discounts and Promotions: Outline discounts and promotions features, including coupon codes, sales, and limited-time offers.  
 Loyalty Programs: Describe loyalty programs, including point accumulation, redemption rules, and rewards tiers.  
 Email Marketing: Outline email marketing features, including newsletters, promotional emails, and abandoned cart reminders.  
 Social Media Integration: Specify social media platforms integrated and describe their roles in the application.  
 Newsletters and Subscriptions: Describe newsletter and subscription features, including opt-in/opt-out options, frequency, and content types.  
 Affiliate Program: Outline affiliate program features, including commission rates, referral tracking, and payout schedules.  
 API Documentation: Specify API documentation format and outline the structure of API endpoints.  
 API Authentication: Describe authentication methods used for API requests, including tokens, keys, and OAuth2.  
 API Rate Limiting: Outline rate limiting strategies for API requests, including limits per minute/hour/day and IP-based restrictions.  
 API Error Handling: Describe error handling approaches for API requests, including error codes, debugging logs, and retry mechanisms.  
 Third-Party Integrations

# Use case

What kind of chatbot do we need? Do we want it integrated with our existing application?  
 Design/UI: Provide a brief description of the overall look and feel of the project. Describe the layout, color scheme, fonts used, etc.  
 Security: How will you ensure the security of the data stored in this online store?  
  
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Here is my attempt at answering your question:  
  
\*\*User Stories\*\*  
  
\* As a user, I want to register/login to the Electric Store so that I can place orders and access my account information.  
 + Acceptance Criteria: User registration and login functionality implemented, user accounts created successfully.  
\* As a user, I want to browse products and add them to my shopping cart without having to log in first so that I can easily compare prices and make informed purchasing decisions.  
 + Acceptance Criteria: Product listings displayed, users able to add products to their cart without logging in.  
\* As a user, I want to view order history and track my orders so that I can keep tabs on my purchases and returns.  
 + Acceptance Criteria: Order history displayed, users able to track orders through email updates or in-app notifications.  
\* As a user, I want to receive promotional emails and offers so that I can stay updated on sales and discounts.  
 + Acceptance Criteria: Email marketing campaign set up, users subscribed to receive promotional emails and offers.  
  
\*\*Chatbot\*\*  
  
We don't necessarily need a standalone chatbot; instead, we could integrate a conversational AI solution like Dialogflow or Botpress directly into our existing application. This would allow customers to interact with us through messaging platforms like Facebook Messenger, WhatsApp, or SMS.  
  
\*\*Design/UI\*\*  
  
Our goal is to create a modern, clean, and intuitive design that appeals to general consumers. We'll focus on creating a visually appealing storefront with a responsive layout that adapts to various devices and screen sizes. Our primary color scheme will feature calming blues (#4567b7) and whites (#FFFFFF) with accents of bright orange (#FFC107). Fonts will include Open Sans and Montserrat.   
  
\*\*Security\*\*  
  
To ensure the security of data stored in our online store, we'll implement robust measures including:  
  
1. Data encryption: All sensitive information will be encrypted using industry-standard algorithms.  
2. Secure servers: Our server infrastructure will be hosted by reputable providers with strict security protocols in place.  
3. Regular backups: Critical data will be backed up regularly to prevent loss in case of unexpected events.  
4. Access control: Only authorized personnel will have access to sensitive areas of the application.  
  
Let me know if this answers your questions accurately! If you'd like me to expand upon any of these topics, please feel free to ask.