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Software Requirement Specification (SRS)

Topic: Lenskart.com

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I. Introduction:-

Lenskart is one of the India's leading e-commerce companies that specializes in selling eyewear products. Lenskart has grown rapidly expanding its products offerrings and customer base across India. Lenskart is an online eyewear platform that provides a wide range of eyeglasses, sunglasses. and contact lenses to its customers. The purpose of this SRS - Software Requirement specification document is to outline the functional and non-functional requirements of the Lenskart website and app. also the detailed SRS for the online wearer. The software aims to provide a digital platform for customers to browse and purchase eyewear products online. and related accessories.

The introduction section of an SRS should provide a brief overview of the website or application and its goals. For lenskart, it could cover the following topics:

- Purpose of the website or application.
- Background information about the company and its mission.
- Target audience of the website or application.
- Key features of websites.

The kenkart website facilitates the user to shop online. The customer or user can browse through the categories and buy any product of his or her choice. Once the customer becomes a registered user, he can create his own account and manage it the way he likes it. Customers will also be able to able to track their orders and recieve notifications about the status of their orders. The SRS document is intended for the development team responsible for building and maintaining the kenkart platform.

II. Scope:

The scope of the project is to design and develop an online platform for Lenskart to sell eyewear to customers. The website will include features such as the ability to search for products based on various parameters, view product details, place orders, and make payments online. Customers will also be able to track their order and receive notifications about the status of their orders.

The main theme is to prove an user-friendly and comprehensive online store where customers can fulfill their eyewear needs. This includes a wide variety of eyewear products, such as sunglasses and lenses.

The Lenskart platform consists of a website and a mobile app, both of which allow customer to browse and purchase eyewear products. The platform also includes a backend system for managing inventory, orders and customer data. The scope of this SRS is limited to the functionality of the website and app.

The Lenskart e-commerce platform will include features such as product catalog, shopping cart, payment gateway, order tracking, user registration and login. The platform will be accessible via desktop and mobile devices.

Definitions, Acronyms and Abbreviations:-

- SRS :- Software Requirement Specification.
- UI :- User Interface.
- API :- Application Programming Interface.
- CMS :- Content Management System.
- SSL :- Secure Sockets Layer.

General Description:-

Product perspective: The lenskart e-commerce platform will be a standalone web application that will communicate with a back end servers via API's. The backend server will handle user data, product data, order data, and payement gateway integration. The frontend UI will be designed with a user friendly interface to ensure ease of use for customers.

↳ Product features:-

- User Registration and login.
- Product catalog
- Product search
- Shopping cart.
- Payement Gateway Integration
- Order tracking.
- User profile management
- Admin dash board.
- CMS integration
- SSL integration
- Mobile Responsiveness.

↳ User characteristics :-

The Kenskart e-commerce platform will be designed for use by both registered and non-registered users. Users will be able to browse the catalogue, seach for product and purchase products via the shopping cart.

↳ Assumptions and dependencies :-

- The application relies on external payment gateways to process transactions
- The application requires a reliable internet connection to function properly.
- The application is dependent on external suppliers for products inventory and shipping.

IV. Functional Requirements :-

1) User Management: Kenskart should have a user management system that allows users to register, login, and manage accounts. Users should be able to update their profile information, view their order history and manage their payment and shipping details.

2) Product Catalog: The Kenskart platform should have a comprehensive product catalog that allows users to browse through different eyewear products such as

sunglasses, and eyeglasses and contract lenses. The catalogs should have a search & filter options to help users find the product they are looking for easily. It should also display detailed product details such as product images, product descriptions & customer reviews.

3.) Cart & checkout: The lenskart platform should have a shopping cart system that allows users to add products to their carts and proceed to checkout. During the checkout process, users should be able to select their shipping and payment options and review their order before finalizing it.

4.) Prescription Upload: Users should be able to upload their prescription while purchasing eyeglasses or contact glasses or lenses. The prescription should be verified by a licensed optometrist before the order is processed.

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5) Virtual try on :- Lenskart should have a virtual try on feature that allows users to see how different eyeglasses and sunglasses would look on their faces. This feature can be implemented by using augmented reality or complete computer vision technology.

6) Order tracking: The lenskart platform should provide users with real time updates on their order status. Users should be able to track order from the time it is placed until it is delivered to their doorstep.

7) Returns and Refunds :- Lenskart should have a hastle free returns and refund policy. Users should be able to return their eyewear products within a special time frame. if they are not satisfied with their purchase The platform should also be able to have a refund policy in place to ensure that users receive their money back in a timely manner.

8.) Customer Support: Lenskart should have a robust customer support system in place to address any queries or concerns that users may have. The platform should also provide users with multiple ways to reach out customer support, such as emails, phone, or live chat.

9.) Loyality program: Lenskart should have a loyality program that rewards users for their repeat purchases. The loyality program can offer users exclusive discounts, early access to new products and other perks.

10.) Security :- The lenskart platform should ensure that users data is secure and protected from any unauthorized access. It should also have a secure payment gateway to ensure that user payement details are not compromised.

11) Social media Integration: LensKart should have integrate and with popular social media platforms to allow users to share their purchases with their friends and followers. This can help the platform to increase its reach and visibility.

12) Mobile app: LensKart should have a mobile app that allows users to browse and purchase eyewear, products on the go. The app should have all the features and functionalities of the website and should be also available on both Android and IOS platforms.

V. Non-Functional Requirements:-

1) Performance:- The LensKart website should be able to handle a large number of concurrent users and provide fast response times for page loading and search queries.

2) Availability: The website should be available 24/7 with minimal downtime or maintenance periods.

3) Usability: The website should be user-friendly, with easy navigations, clear and concise language, and intuitive user interfaces

4) Security: The website should be user friendly and have robust security measures to protect user data and transactions, include encryption secure storage, and secure authentication.

5) Compatability:- The website should be able to compatible with a variety of browsers, devices and operating systems to ensure a seamless user experience across platforms.

6) Scalability:- The website should be scalable to accommodate future growth and changes in user demand.

7) Reliability:- The website should be reliable, with minimal errors, bugs, or crashes and the ability to recover quickly from any failures.

8) Accessibility:- The website should be accessible to all users, including those with disabilities, by comforming to accessible standards.

9) Performace efficiency:- The website should be consume minimal system resources such as CPU, memory and storage.

10) Maintainability:- The website should be easy to maintain and update, with clear documentation and version control.

VI. Constraints:

1) Stakeholder requirements: The SRS for Kenkard needs to concides the requirements of different stakeholders, such as customers, etc. However these stakeholders may have conflicting requirements, which can be constraints for the SRS. The SRS needs to address these conflicts and ensure that the requirements of all stakeholders are met.

2) Technology constraints:- The SRS needs to concides the technology constraints that can impact the development and implementation of the kenekart platform. For example, the SRS needs to ensure that the platform is compatible with different devices and OS and can handle high traffic volumes.

3) Time and resource constraints :- The dev. of kenekart platform needs to be completed within a specified time frame and allocated resources. Any delay in the dev. of process can impact the platform's launch and market competitiveness.

4) Budget constraints :- The dev. and implementation of kenekart platform require a significant investment. However, there might be budget constraints that impact the SRS's scope and functionalities. The SRS needs to ensure that the platform's dev. is within the allocated budget.

5) Quality constraints :- The SRS needs to ensure that the Kenskart platform meets the quality standards expects by the stakeholders. The platform needs to be user-friendly, secure and efficient in delivering the required functionalities. Any deviation from the expected quality standards can impact the platform's acceptance and success.

6) Regulatory Compliance :- The SRS needs to ensure that the Kenskart platform complies with the regulations and laws related to the sale of eyewear products. The platforms needs to provide accurate prescription verification, ensure the quality of products and adhere to consumer protection laws.

VII. Conclusion:

In conclusion, lenskart is a leading player in the Indian eyewear market, providing a range of high quality products at affordable prices. The company has introduced several innovative features to its platform, ensuring a seamless shopping experience for its users. With an extensive offline presence, detailed customer support team and commitment to social responsibility, lenskart has established itself as a trusted brand in the eyewear industry.

This SRS defines the functional and non-functional requirements for the lenskart application as well as its assumptions, dependencies and constraints. By meeting these requirements, lenskart can provide a reliable and user-friendly platform for customers to provide and purchase eyewear products online.

1) Test suite -1:- User account
- User login
- User registration
- User profile Update
- User logout.

2) Test suite -2:- Product search
- Product search
- Product details
- Product Filtering
- Product sorting.

3) Test suite - 3:- Cart management
- Add to cart
- Cart quantity Update
- Cart removal
- Cart checkout.

4) Test suite -4:- Payement processing.
- Payement Details validation
- Payement Authorization
- Payment Capture
- Payment Refund.

5) Order management:-
- Order conformation
- Order tracking
- Order cancellation.
- Order history.

Software Engineering
Test Cases

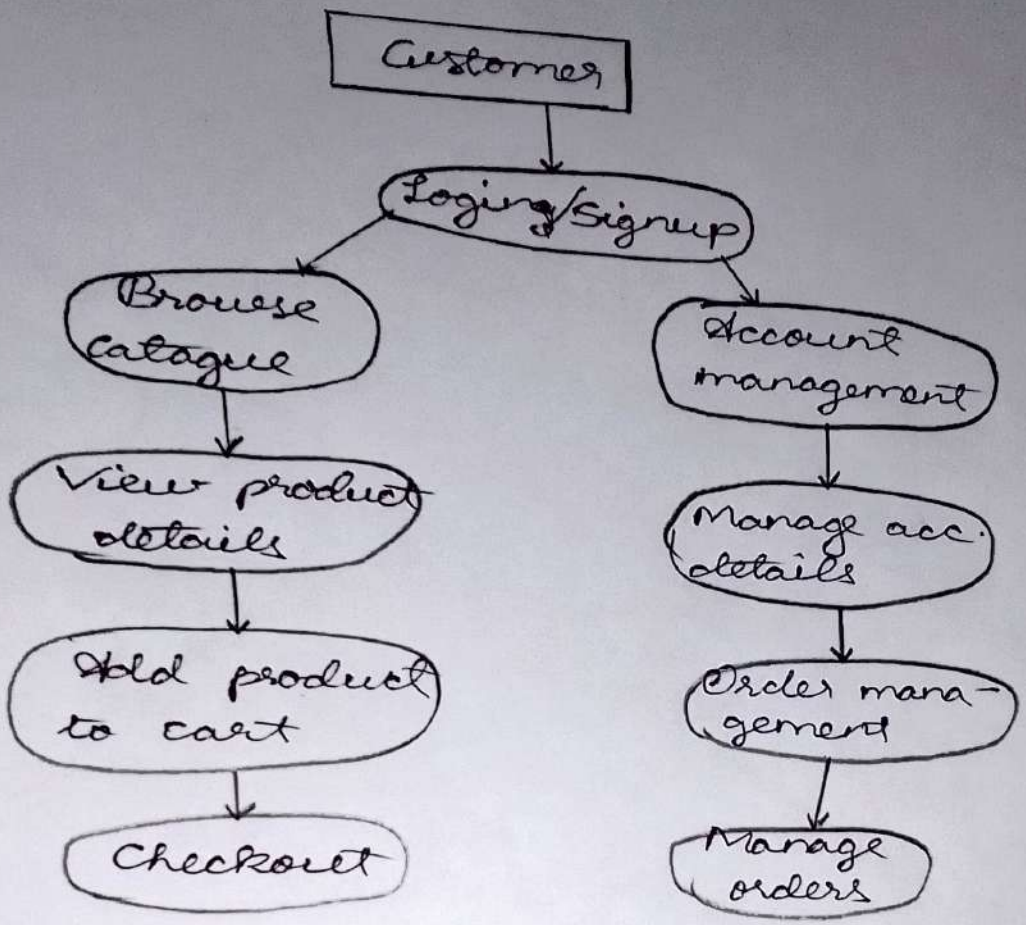
Test Cases

Test Case #:	**Test Case Name:**
System:	**Subsystem:**
Designed by:	
Short Description:	

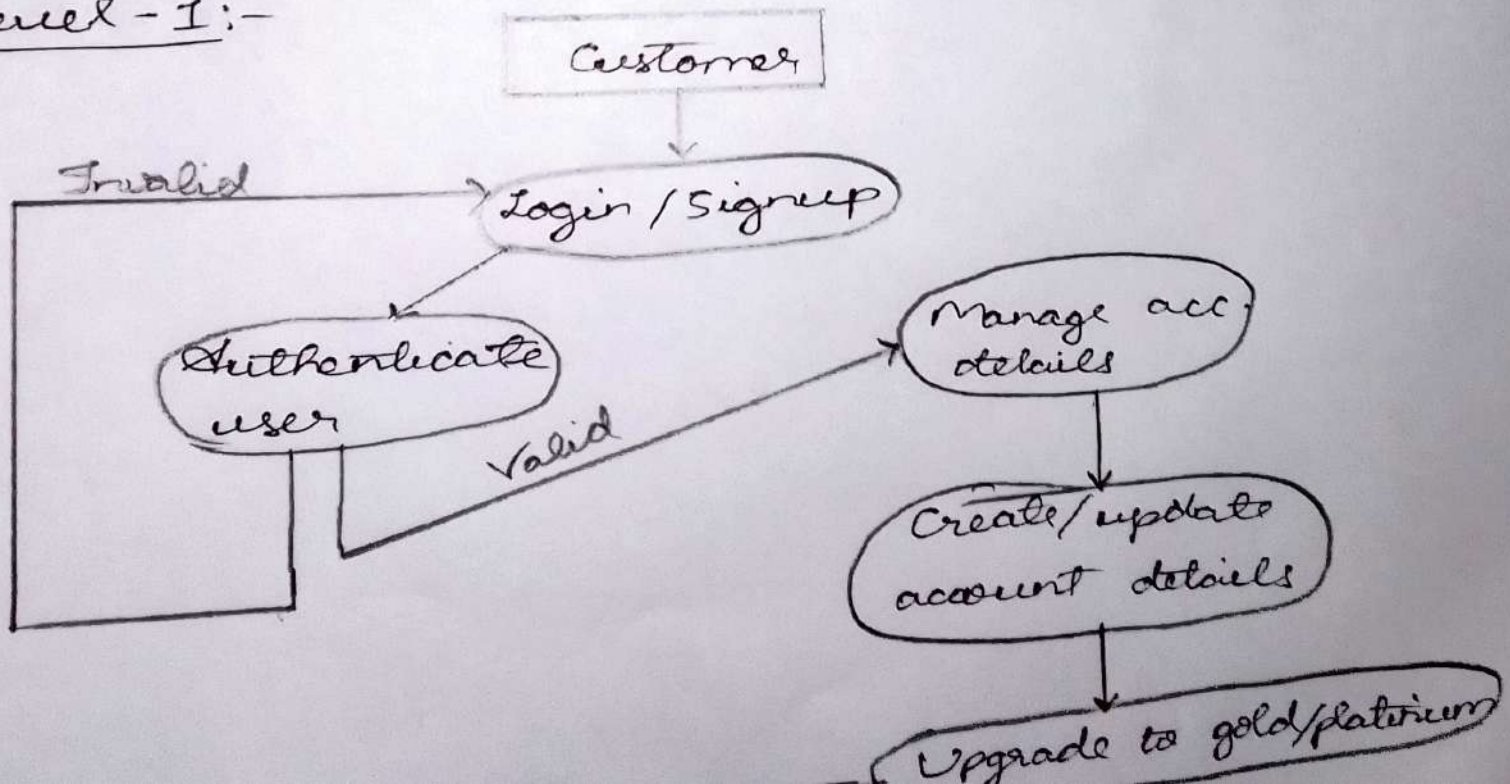
Pre-conditions
The user has all valid information

Step	Action / test cases	Expected System Response	Pass/ Fail	Comment
1	User login	Verify that a user can login to Lenskart system.	Pass	
2		The user should be logged into the Lenskart system.	Pass	
3	Product search	The user should be able to see a list of relevant products	Pass	
4	Product details	The user should be able to view the details of the product.	Pass	
5	Add to cart	The product should be able to user's cart.	Pass	
6	Checkout	The user should be taken to the checkout page, for shipping info.	Pass	
7				

Post-conditions:
The user can surf through the website hastle free.

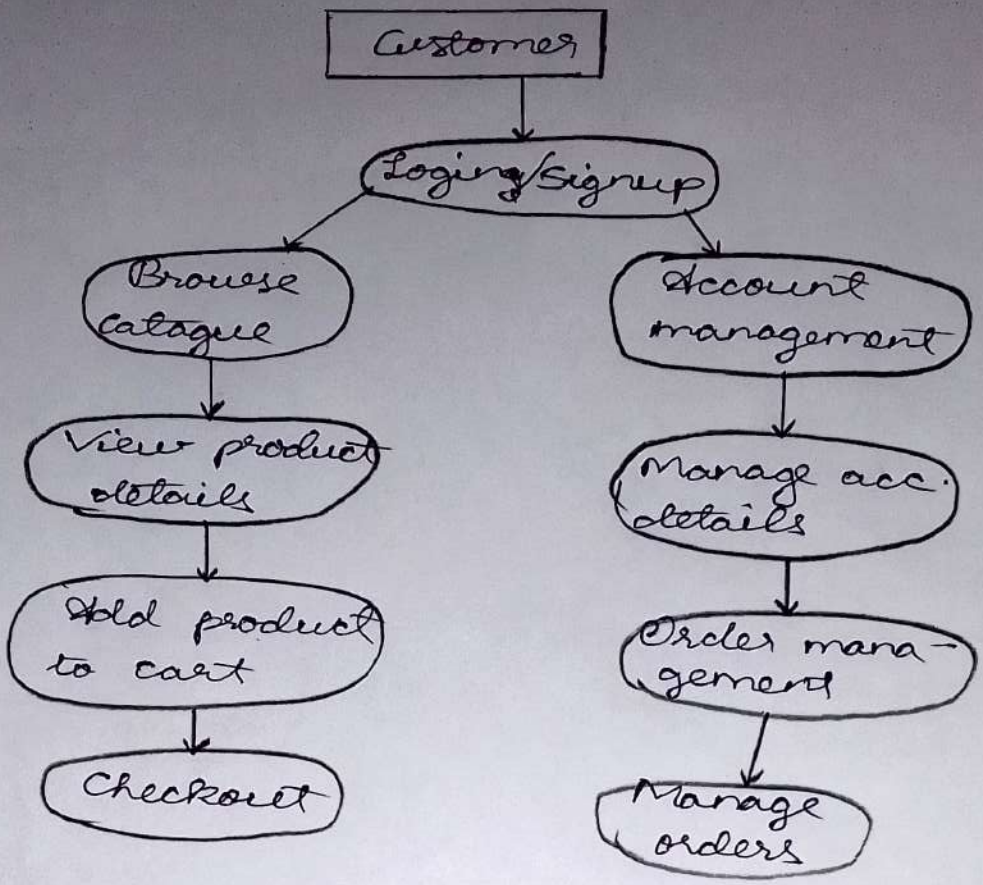

Customer
Login/Signup
Browse catague
Account management
View product details
Manage acc. details
Add product to cart
Order management
Checkout
Manage orders

Level - 1 :-

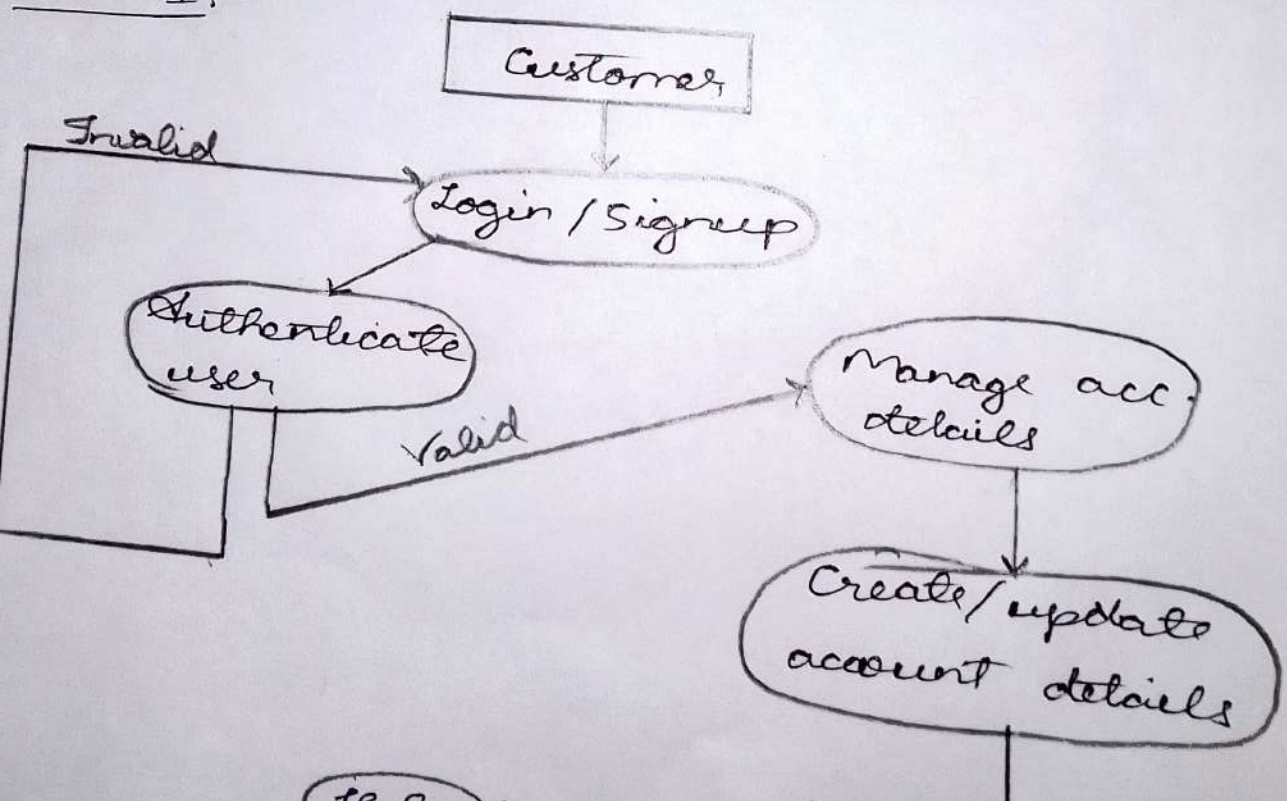

Customer
Invalid
Login / Signup
Authenticate user
Valid
Manage acc details
Create/update account details
Upgrade to gold/platinum

8. DFD for Cartkart :- (Data flow diagram)

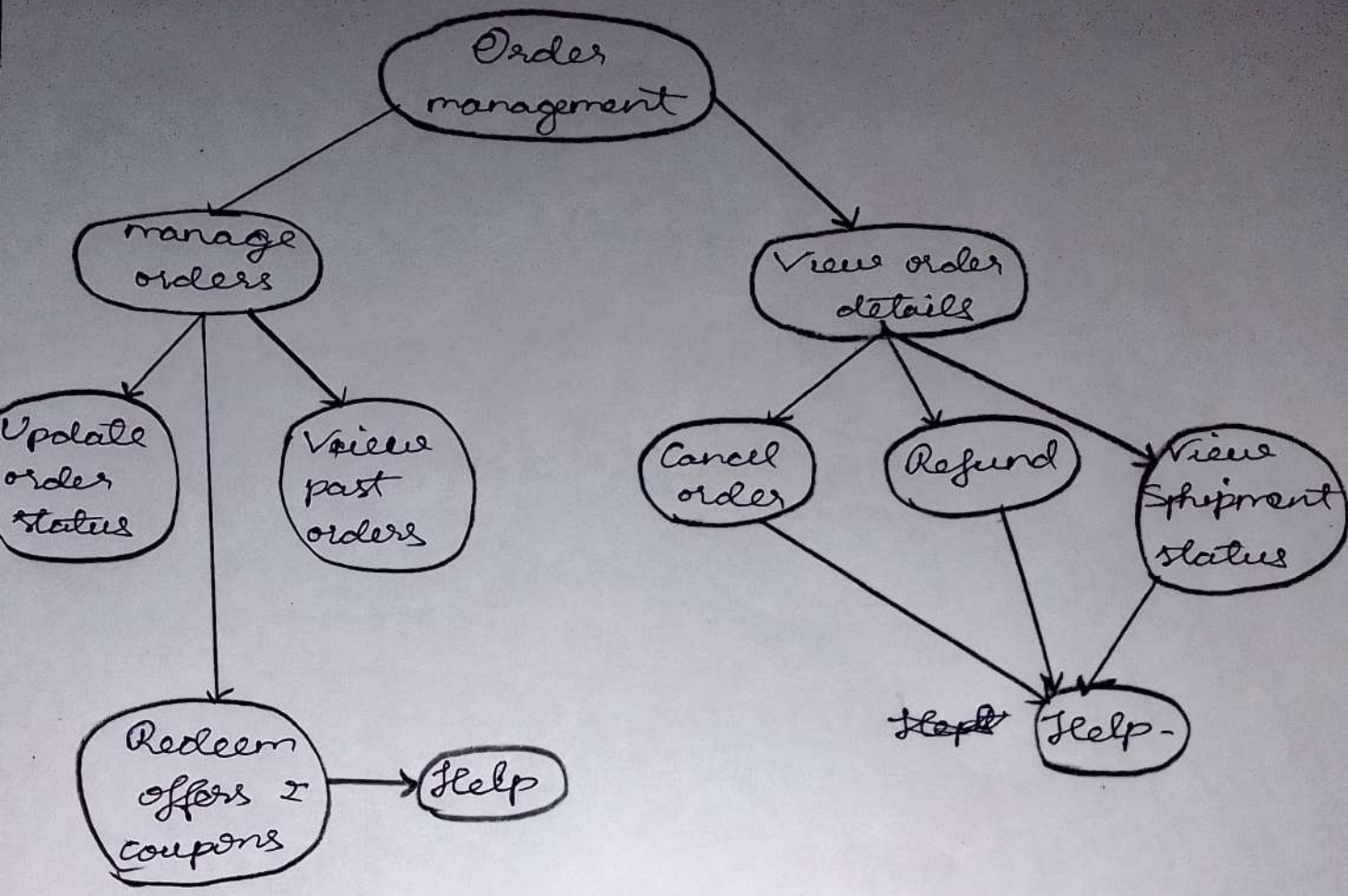
→ Level-0 :-



Level - 1 :-



Level-2:-


Order management
manage orders
View order details
Update order status
View past orders
Cancel order
Refund
View Shipment status
Redeem offers & coupons
Help
Help
Help-