**A HIGH-LEVEL DESIGN DOCUMENT FOR FLIPKART**

# **Overview or Introduction:**

* HLD is used to develop a system that can solve a larger problem that can be breaking it into smaller manageable pieces.
* It can be easily read and understood by anyone.
* Allows the reader to determine whether this document is helpful/accessible for them.

1. **Features:**

**a) User Management:**

* Top of Form
* User login, registration and authentication.
* User has profile management that includes address, payment methods and preferences.

**b) Shopping Cart:**

* Shopping cart functionality for users to add, remove and modify items.

**c) Checkout:**

* Guest checkout and user account checkout with saved addresses and payment methods.

**d) Order Management:**

* Order tracking and status updates for users.
* Order processing include order confirmation, packaging and shipping.

**e) Search and Navigation:**

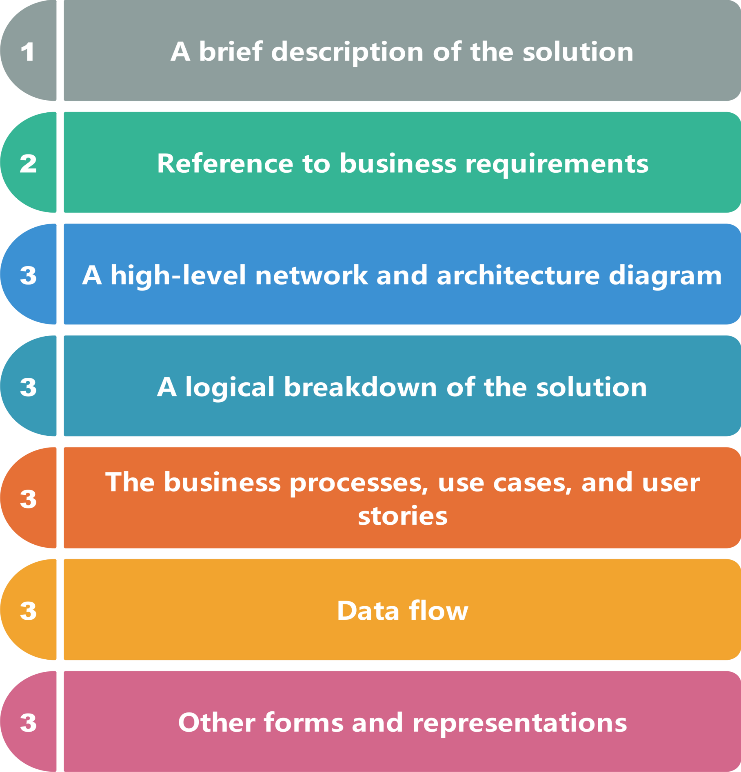
* Advanced search functionality with filters and sorting options.
* Navigation through categories and sub-categories.

**f) Reviews and Ratings:**

* User reviews and ratings for products.
* Aggregate ratings displayed on product pages.

**3.High-Level Design:**

High-Level Design is a general system design and includes the description of the system architecture and design. It aims to provide process flow updates and information pathway changes using diagrams, tables, and other visualizations. Typically, also addresses integration issues with other systems.

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**Fig: The flow of HLD**

**3.1 Application Modules:**

* **Core system components:**

It provides basic IT or business functions.

* **User interfaces:**

**It** tells the reader how users interact with the system or a particular component and what changes can be done in the user level.

* **The database layer:**

It contains that where all the data resides. Data storage and management are a pathway leading to discussions on data backup, disaster recovery, redundancy, and high availability, all of which are critical for uptime and business continuity.

* **The business logic:**

The modules deliver the business functionality of the solution. It is best to have business components depicted in a separate diagram than IT components such as databases or web servers.

* **Application Programming Interfaces (APIs):**

These are essential to call out so that inter-platform dependencies are vividly illustrated.

**4. Data flow and Use cases:**

The data flow and use cases section contain the document all necessary interactions between the user and the system.

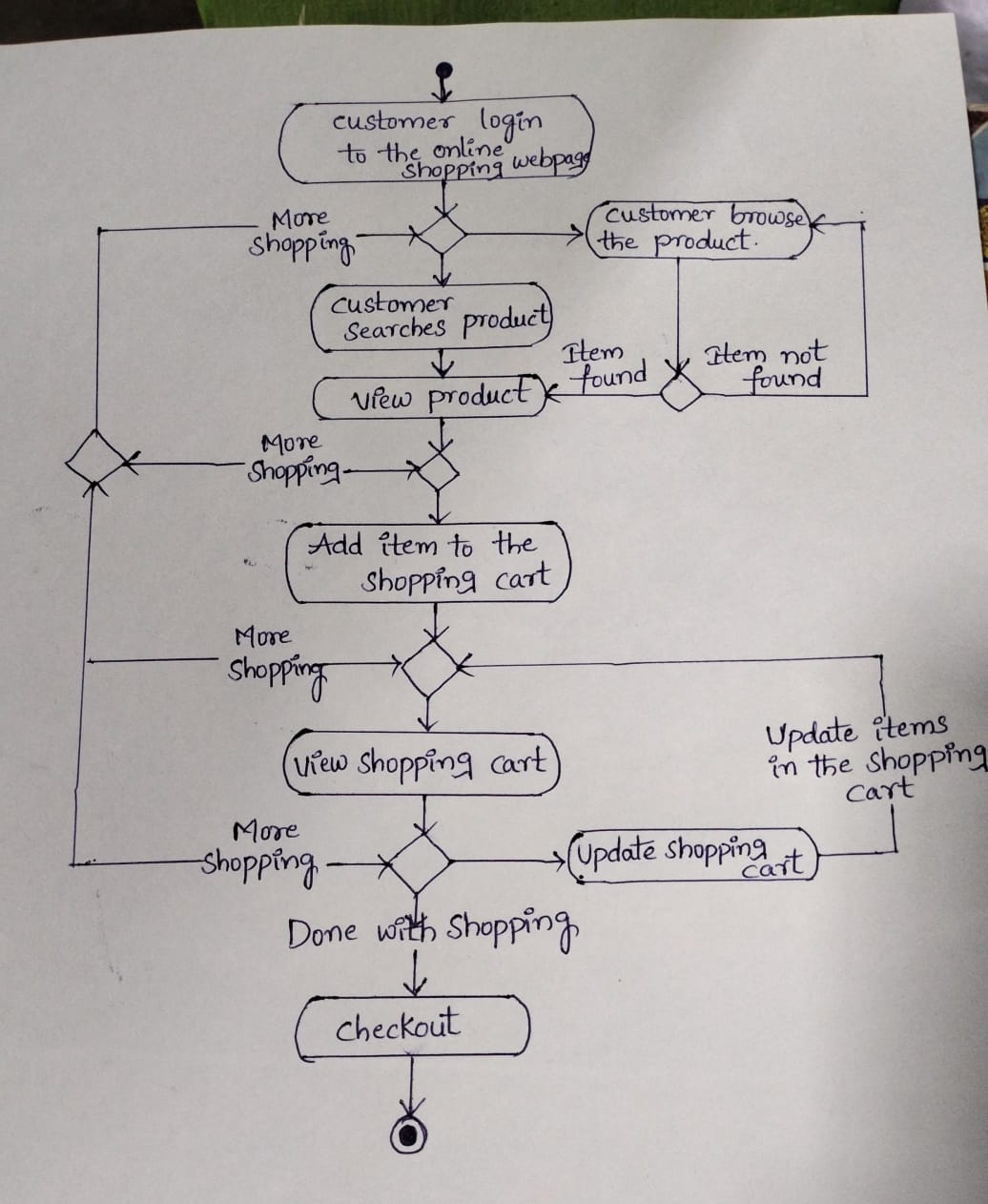


Fig: Visual representation of Flipkart Online shopping Application