**Flipkart : ONLINE SHOPPING WEBSITE**

**SOFTWARE REQUIREMENTS SPECIFICATIONS:**

**2.1 Purpose:**

Flipkart is an e-commerce website which allows consumers to electronically exchange goods .E- commerce is the activity of buying or selling products on online services or over the internet. E-commerce has expanded rapidly over the past five years and is predicted to continue at this rate or even accelerate. In the past decade or two many services which were then offline are going online to provide contentment to the consumers. Flipkart is one such service which is an online shopping mall for products like mobiles, fashion, electronics , home appliances, books , jewelry , home furniture, sporting goods, beauty & personal care and more. Such e-commerce services also have advantage over local stores like having bigger warehouses , wide selection of products , lower prices of products , convenience not stepping outside.

**2.2 Scope :**

* E-commerce is a term for commercial transaction across internet.
* Flipkart allows users to have the wide selection of products organized according to category.
* This system allows for users to have a virtual cart which allows them to add and remove products over internet.
* Payment of the products ordered can be done through cash on delivery, credit , debit card, UPI, virtual wallets etc according to convenience of the user.
* Monetary transactions can be done through internet.

**2.3 Definitions , acronyms , synonyms:**

* Customer: An end user who places orders for products or services from the website.
* Delivery Partners: A third party that shall deliver the product, after collecting it from the local warehouses to the end users.
* Database: A structure that stores organized information regarding users, products ordered, delivery agents, transaction details , information about delivery, personnel details of the user in a table format.
* Vendor : They add products to the database and supply products to the flipkart warehouses ,which will be seen in the website by the end users.
* Administrators : Administrators are the one who adds and categorize the products.

**2.4 Product perspective :**

•Flipkart provides an easy-to-use interface which user can easily navigate through.

•Since Flipkart is an real time application, for every instance that the app is opened the following are displayed:

1.Recommended products.

2.Menu of products which is categorized to select from.

3.Product’s price along with its availability in your location.

4.Similar products to the product that was opened.

•Provides various modes of payment and interfacing with a register to facilitate the accurate processing of a payment.

•Support errors/warnings/exceptions and monitor all the user actions during the application execution.

•Notifying order and delivery reports to customers and sellers.

**2.5 Product Functions:**

* Login
* Register
* Add to Cart
* Search
* Coupons and Offers
* Notifying order and delivery reports to customer and sellers.
* Payment
* Location Mapping
* Sort / Filter
* Live location of delivery person and time of delivery.
* Delivery Status.

**2.6 Software requirements:**

● 64 bit computer

● Operating System - Windows 10

● Browser – Chrome 48.0.2568

● Database management – Oracle

● JDK 10

● Sublime 3 Text Editor

* Android Studio

**2.7 Hardware Requirements :**

* GPS must be present.
* Must be compatible to low level libraries and dependencies.

**2.8 Functional Requirements :**

* Registration:

The user registers using his phone number ,email and address . The registration is needed to order the products or setting up cart for the user .

* Login:

There is a one time login for this website . It includes the otp of the user

And the confirmation of the location.

* Add to Cart:

The user can select various products and add to cart and then proceed to payment . He can add the quantity of a particular item and also remove any item he wishes to.

* Recommendations of products :

Flipkart uses cookies in the browser to look at the resent past of the surfed websites, searched etc by the user to recommend products to them.

* Related items :

This features allows the user to look at the similar items to the product that is being viewed to find best possible product according to user preferences.

* Easy Exchange :

This feature permits the user to return the item back to the seller after the delivery is done and expect to get full refund of the amount paid.

T&C apply.

* Search:

The search function can be used to search for relevant products needed by the user.

* Payment:

This feature permits various payment options ranging from cash on delivery to debit/credit and net banking, UPI and virtual wallet.

To purchase an item one has to first add in cart and then purchase if he/she logins in via a valid account.

* Location Mapping:

This feature allows for the user to track the location of the product being delivered form within the website and also provides the expected delivery date and other important notification about the

Transit.

* Sort / Filter:

This option allows for the user to sort and filter the product searched or viewed based on many categories like price, specifications of the particular product, availability, brand etc.

* Interface for Vendors:

Provide an interface to all the sellers to add product description and price through their account.

* Customer support :

Provide an online help, FAQs for the troubled customers. Providing customer care helpline phone number and email for queries of the users.

**2.9 Non Functional Requirements :**

* User Interface:

The user interface is easy to understand and can be understood with any assistance.

* Performance:

The live location of the delivery person is updated in real time and the estimated time is calculated every second. The run time of a particular component is highly optimized .

* Security :

The payment is done via a separate payment gateway and provides no scope for any interference from any other source other than user and the bank.

* Reliability :

Reliability of the system is the backup of the database which continuously maintained and updated to reflect the most recent changes.

* Portability :

Since the application is written in HTML and scripting languages , the software can be run on any machine with working and updated browser. Hence the service can be used is any operating system if pc and any mobile application platform.

**2.10 User Characteristics :**

**User Module :**

* The user selects his by manually typing in the address, pin code of the area they are in for the delivery.
* The user can use the sort / filter option to sort on his preferences , let it be popularity or price or delivery time , etc .
* He can add the items into his cart and select the quantity , and further modify any items preexisting in his cart .
* He can use various payment options to pay for the delivery (COD , Netbanking , Credit / Debit ) .
* He can keep track of the delivery person and make calls to the person to stay in control of the order.

**Vendor Module :**

* Vendor or seller has his own user interface to interact with the system.
* Every vendor is a registered and certified user with login credentials.
* The have the interface to add and remove the products that they are selling.
* They can also advertise their products through the Flipkart interface.
* The seller of the product is displayed under the product that is being viewed by the customer.
* Every seller carries a rating which the average of the reviews or rating given the customers.

**Delivery Module :**

* Delivery module constitutes system of delivery model implemented by the system.
* Flipkart can hire a third party delivery services like FEDEX, DHL etc to deliver their products.
* Flipkart consists of its own delivery service e-kart for delivery of products.
* The delivery of the products can be tracked by the user online through the interface provided.
* This delivery system also has local ware houses in city where the shipped order is stored and delivered to the customer through local delivery boys.

**2.11 Constraints & Limitations :**

* This is web- based application along with mobile application and is supported on only IOS and Android.
* This requires the availability of internet during all the foreground lifetime of the application .

**2.12 Assumptions :**

* The internet speed must be good
* Proper version of Android is available
* Google Web browser is present