**Flipkart API Documentation**

**1. Product Search API**

**API Name: Search Products**

**API Definition:**

* **API:** https://api.flipkart.com/search
* **Method:** GET
* **Parameters:**
  + query (required): Search term for the product.
  + category (optional): Category ID to filter products.
  + sort (optional): Sorting criteria (e.g., price, popularity).
  + page (optional): Page number for pagination.
  + limit (optional): Number of items per page.
  + api\_key (required): API key for authentication.
* **Description:** Searches for products based on the provided search term and filters.
* **Response Format:** JSON

**Example Request:**

bash

Copy code

GET https://api.flipkart.com/search?query=laptop&category=1234&sort=price&page=1&limit=10&api\_key=YOUR\_API\_KEY

**Example Response:**

json

Copy code

{

"status": "success",

"data": {

"products": [

{

"id": "12345",

"name": "Dell Inspiron 15",

"price": "₹50,000",

"thumbnail": "https://example.com/images/dell-inspiron.jpg",

"rating": "4.5"

},

{

"id": "67890",

"name": "HP Pavilion",

"price": "₹55,000",

"thumbnail": "https://example.com/images/hp-pavilion.jpg",

"rating": "4.3"

}

]

}

}

**Definition:**  
The Product Search API allows users to search for products on Flipkart based on various criteria like search term, category, and sorting options. This API is essential for displaying search results and product listings on the platform.

**2. Product Details API**

**API Name: Get Product Details**

**API Definition:**

* **API:** https://api.flipkart.com/products/{productId}
* **Method:** GET
* **Parameters:**
  + productId (required): Unique identifier for the product.
  + api\_key (required): API key for authentication.
* **Description:** Retrieves detailed information about a specific product, including its description, specifications, and reviews.
* **Response Format:** JSON

**Example Request:**

arduino

Copy code

GET https://api.flipkart.com/products/12345?api\_key=YOUR\_API\_KEY

**Example Response:**

json

Copy code

{

"status": "success",

"data": {

"id": "12345",

"name": "Dell Inspiron 15",

"price": "₹50,000",

"description": "A powerful laptop with Intel i7 processor, 16GB RAM, and 512GB SSD.",

"specifications": {

"processor": "Intel i7",

"ram": "16GB",

"storage": "512GB SSD"

},

"reviews": [

{

"user": "John Doe",

"rating": "5",

"comment": "Excellent performance and value for money."

},

{

"user": "Jane Smith",

"rating": "4",

"comment": "Good laptop but the battery life could be better."

}

]

}

}

**Definition:**  
The Get Product Details API provides comprehensive information about a specific product, including its specifications, description, and user reviews. This API is critical for detailed product pages on Flipkart.

**3. User Authentication API**

**API Name: User Login**

**API Definition:**

* **API:** https://api.flipkart.com/auth/login
* **Method:** POST
* **Parameters:**
  + username (required): User’s email or username.
  + password (required): User’s password.
  + api\_key (required): API key for authentication.
* **Description:** Authenticates a user based on provided credentials and returns a session token.
* **Response Format:** JSON

**Example Request:**

json

Copy code

POST https://api.flipkart.com/auth/login

{

"username": "user@example.com",

"password": "password123",

"api\_key": "YOUR\_API\_KEY"

}

**Example Response:**

json

Copy code

{

"status": "success",

"data": {

"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiIxMjM0NTY3ODkwIiwibmFtZSI6IkpvaG4gRG9lIiwiaWF0IjoxNTE2MjM5MDIyfQ.SflKxwRJSMeKKF2QT4fwpMeJf36POk6yJV\_adQssw5c",

"userId": "123456"

}

}

**Definition:**  
The User Login API authenticates users and provides a session token for subsequent API requests. It is fundamental for managing user sessions and accessing personalized features on Flipkart.

**4. Order Creation API**

**API Name: Create Order**

**API Definition:**

* **API:** https://api.flipkart.com/orders
* **Method:** POST
* **Parameters:**
  + userId (required): Unique identifier for the user placing the order.
  + items (required): List of items to be ordered, including product IDs and quantities.
  + address (required): Delivery address.
  + paymentMethod (required): Payment method (e.g., credit\_card, debit\_card, paypal).
  + api\_key (required): API key for authentication.
* **Description:** Creates a new order with the specified items and delivery details.
* **Response Format:** JSON

**Example Request:**

json

Copy code

POST https://api.flipkart.com/orders

{

"userId": "123456",

"items": [

{

"productId": "12345",

"quantity": 1

},

{

"productId": "67890",

"quantity": 2

}

],

"address": "123 Main Street, City, Country",

"paymentMethod": "credit\_card",

"api\_key": "YOUR\_API\_KEY"

}

**Example Response:**

json

Copy code

{

"status": "success",

"data": {

"orderId": "987654321",

"estimatedDelivery": "2024-08-10",

"totalAmount": "₹1,10,000"

}

}

**Definition:**  
The Create Order API facilitates the placement of new orders, handling item details, delivery address, and payment information. It is essential for processing purchases and managing order workflows on Flipkart.

**5. Order Status API**

**API Name: Get Order Status**

**API Definition:**

* **API:** https://api.flipkart.com/orders/{orderId}/status
* **Method:** GET
* **Parameters:**
  + orderId (required): Unique identifier for the order.
  + api\_key (required): API key for authentication.
* **Description:** Retrieves the current status of a specific order.
* **Response Format:** JSON

**Example Request:**

bash

Copy code

GET https://api.flipkart.com/orders/987654321/status?api\_key=YOUR\_API\_KEY

**Example Response:**

json

Copy code

{

"status": "success",

"data": {

"orderId": "987654321",

"status": "Shipped",

"trackingNumber": "TRACK123456",

"estimatedDelivery": "2024-08-10"

}

}

**Definition:**  
The Get Order Status API provides real-time updates on the status of a specific order, including shipping and delivery information. This API helps users and administrators track order progress and manage logistics.