Habib University

Dhanani School of Science and Engineering

CS/CE 353/374-L2 Software Engineering

Milestone: Black Panther (API Definition Document)

SHOQ Mobiles

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Contents

1   Introduction

This document aims to provide a comprehensive overview of API's that would be integrated in our product. We will be using RESTful APIs in our implementation. Additionally, there is no need to use any external API's in our application

2   APIs for Scrapping

/getSource

END Points: E-commerce website to our database

HTTP Method: Get

Authentication: Not required

Purpose: scrap the entire data available on a specific e-commerce market.

Response (JSON):
- **Success (200):** Request is completed successfully. It returns a JSON or HTML objects for all the data present on the website. We will request only for Product name, model, price and URL to redirect
- **304 (Not Modified):** Indicates that the response has not been modified
- **Errors:**
  - **400 (Bad Request):** Validation errors or missing fields in the request
  - **401 (Unauthorized)** the request requires user authentication information
  - **500 (Server Error):** Internal server errors

3   APIs for Searching

/getResult

END Points: Database to front end

HTTP Method: Get

Authentication: Not required

Purpose: Retrieve search results based on specific criteria.

Request Parameters:
- `query` (string, required): The search query.

Response (JSON):   • **Success (200):** Request is completed successfully. It returns a JSON object containing the search results.

   • **Errors:**
     – **400 (Bad Request):** Validation errors or missing fields in the request.
     – **401 (Unauthorized):** The request requires user authentication information.
     – **500 (Server Error):** Internal server errors.

4   APIs for Redirecting

/getLink

END Points: Database to frontend

HTTP Method: Get

Authentication: Not required

Purpose: Obtain a redirect link for a specific product based on its ID.

Request Parameters: • `productId` (string, required): The unique identifier of the product.

Response (JSON):   • **Success (200):** Request is completed successfully. It returns a JSON object containing the redirect link.

   • **Errors:**
     – **400 (Bad Request):** Validation errors or missing fields in the request.
     – **401 (Unauthorized):** The request requires user authentication information.
     – **404 (Not Found):** The specified product ID is not found.
     – **500 (Server Error):** Internal server errors.

/Redirect

END Points: Front end to the external e-commerce website

HTTP Method: Get

Authentication: Not required

Purpose: Redirect the user to the external e-commerce website based on the provided URL.

Request Parameters: • `redirectUrl` (string, required): The URL to redirect the user.

Response (JSON):
- **Success (200):** Request is completed successfully. It redirects the user to the external e-commerce website.
- **Errors:**
  - **400 (Bad Request):** Validation errors or missing fields in the request.
  - **401 (Unauthorized):** The request requires user authentication information.
  - **404 (Not Found):** The specified URL is not valid.
  - **500 (Server Error):** Internal server errors.

5   References

- https://restfulapi.net/