



Project Title

Price Tracker

Feasibility Analysis Report

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1. Introduction

A price tracker is a tool to track, compare, and analyze prices from different websites. Now a days, most of the customers do their shopping online. For a particular product, the price is not same in different e-commerce websites. Before buying any product, the customers did not visit all websites for comparing the best price and they buy that product at a high price. The goal of every customer is to get the best product in cheapest price. Comparing the cheapest price of the product at different e-commerce sites is a difficult task for anyone. An automated system will be created and finding products at the cheapest price will become easier for the customers who want to buy. The web application contains the browser extension and a Price Tracker website. Additionally, a price history of the products from every e-commerce sites will be shown in the Price Tracker website. If a customer search for any products at any e-commerce sites, they can easily identity whether they are getting the cheapest price or not for the product. The advantage of customers will be saving their valuable time and money.

1.1 Functional Requirements

The functional requirements are:

- i. There will be a login or signup system for the customers.
- ii. When a customer enters a website for buying a product from an e-commerce site, the prices of that product will be fetched from different e-commerce sites and displayed with the help of the Price Tracker browser extension.
- iii. The prices of the product that the customer wants to buy will be compared from different e-commerce sites with the price of the e-commerce site. An alert warning

message and link of the sites will be shown if they want to buy that product at a lower price from other sites.

- iv. The history of the product price will be shown in the Price Tracker website. A link will be created by Price Tracker browser extension before checkout of the product. The full price history of any products will be connected with the Price Tracker website where price history of that specific product at that specific e-commerce site will be shown.
- v. The Price Tracker database will store the prices of the products from several e-commerce sites. If any customer enters in a page of the product then prices of that product from that e-commerce site will be updated in the Price Tracker database if Price Tracker browser extension is installed in the customer computer browser.

2. Feasibility Study Report

The feasibility study plays an important role in the analysis of the system management. The absolute decision of the system analyst is to design a particular system depending on whether the system is feasible or not. The feasibility study can be categorized into:

2.1 Technical Feasibility:

The MySQL database will be used which will store information of products. For server-side scripting language, Python will be used. Django framework will be used for storing, retrieving and updating data to and from the database. Python will be used to communicate with the database system. The browser extension will be created using JavaScript or Python. Bootstrap will be used for the interface and website frontend will be built using bootstrap, HTML and CSS website backend will be built using Django framework. The

data will be fetched from websites like daraz.com.bd, evaly.com.bd, ajkerdeal.com, chaldal.com, pickaboo.com etc.

2.2 Economic Feasibility:

Annually, server cost of 9000 Taka will be required. The cost may rise depending on the load of the server later. Yearly revenue will be about 4 Lac Taka approximately if 50,000 visitors can reach to Price Tracker sites.

2.3 Operational Feasibility:

Developers will decide the tasks that need to be performed and how the task will be completed. This process is required for ensuring best use of resources, money and time. Without the process, the project is intended to flop as the developers will build the system without understanding what the client actually wants.

2.4 Legal Feasibility:

This project will be open source. So, developers will be sure that no fake use of data will happen. The price of any company will never be change and companies favor will not be given. The data history of product price from every e-commerce site will be fetched from their own server so that the data will be correct and exact. From hacker or attacker, the data will be protected and secured. The code will be open source, but the database will not be open source. So, it will be a contribution for the community of open source. Bugs can be found by the developers and can make some improvements and contributions can be added. This project will be better and more secure user experience.

2.5 Schedule Feasibility:

The website and the extension of Price Tracker will require one month for complete development, the design will require 15 days to complete and the prototype will require one month to complete.

2.6 Behavioral Feasibility:

The Price Tracker browser extension will be user friendly and customer can easily interact with the main website without entering lots of websites.

3. Conclusion

The Price Tracker browser extension will be helpful for customers to save their valuable money while shopping from e-commerce sites. It will create a user-friendly small interface. To me, this project will be feasible because the requirements of thousands of e-commerce customers in Bangladesh will be solved easily. But the customer will not get the price history of the products information by the help of Price Tracker browser extension. I will try to show a link to Price Tracker extension which will show price history information of the products as a pop-up. If any customer visits an e-commerce website then they will see the price history information from the site by clicking on the Price Tracker browser extension.