

# RETAIL E-COMMERCE PRICE TRACKER

## Project Plan

**Overview:** The Electronic Price Tracker project aims to develop a comprehensive web application that allows users to track and compare prices of various electronic items across multiple online retailers and receive alerts on price drop. The application will employ web scraping techniques to collect real-time pricing information and present users with a user-friendly interface for effective comparison shopping.

**Goal:** Develop a software solution that empowers consumers to find the best product deals and save money on their online purchases.

### Objectives:

1. **Aggregate product pricing data:** Collect and organize product pricing information from a wide range of online retailers in a timely and accurate manner.
2. **Enable comprehensive price comparison:** Develop algorithms to compare prices across retailers.
3. **Offer personalized deal recommendations:** Recommend the best deal to each user based on their customizable preferences and priorities.
4. **Provide price drop alerts:** Monitor price changes for specific products and send timely alerts to users when desired price drops occur.
5. **Deliver a user-friendly interface:** Create an intuitive and accessible user interface that facilitates easy product search, comparison, etc.

### Scope:

- **Target Products:** Laptops, Smartphones, T.V.s, Refrigerators
- **Target Websites:** Vijay Sales, Croma, Reliance Digital, Flipkart
- **Target Audience:** This application is ideal for consumers who are looking to save money on their electronics purchases. It will be particularly beneficial for individuals who frequently buy or research electronic products

**Technologies:** The project will utilize Python as the primary programming language, with web scraping libraries like BeautifulSoup. Flask will be employed for the backend. The frontend will be developed using HTML, CSS, and Js.