






Sentiment Analysis Using Flask

 Subjects	Projects
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 AI summary	The Sentiment Analysis for Laptop Reviews project aims to automate sentiment analysis of user-generated laptop reviews using a Python-based system with Flask and MySQL. It addresses the inefficiencies of manual analysis by providing a user-friendly interface for registration, login, and viewing reviews with sentiment results. The system includes a sentiment analysis module that categorizes sentiments as positive, negative, or neutral, and is designed to enhance accuracy and efficiency in analyzing laptop reviews.

Introduction:

- The Sentiment Analysis for Laptop Reviews project is designed to analyze the sentiment of user-generated reviews for laptops.
- The project aims to provide a user-friendly interface for users to view laptop reviews and sentiment analysis results.

Problem Statement:

- The current manual system of sentiment analysis is time-consuming and prone to errors.
- The manual system requires human intervention to analyze the sentiment of reviews, which can lead to delays and miscommunication.

Proposed Solution:

- The Sentiment Analysis for Laptop Reviews project is a Python-based project that uses a machine learning algorithm to analyze the sentiment of reviews.
- The project uses a database to store user input and sentiment analysis results.
- The project generates sentiment analysis results in the form of positive, negative, or neutral.

Tools and Technologies Used:

- Programming Language: Python
- Python Libraries:
 - TextBlob (for sentiment analysis)
 - Flask (for web development)
 - MySQL Connector (for database connectivity)
- Database: MySQL
- Web Server: XAMPP

Functional Requirements:

- User Registration: Users can register themselves with a unique ID and password.
- Login: Registered users can log in to the system using their ID and password.
- Home Page: The system displays a list of all laptops in the database, along with their details and a graph showing the sentiment analysis of reviews.
- Laptop Details: Users can view the details of a specific laptop, including its specifications, reviews, and sentiment analysis results.
- Logout: Users can log out of the system.

System Design:

- The system consists of a user interface, a database, and a sentiment analysis module.
- The user interface allows users to view laptop reviews and sentiment analysis results.
- The database stores user input and sentiment analysis results.
- The sentiment analysis module uses a machine learning algorithm to analyze the sentiment of reviews.

Screenshots:

Login Page

Register Page

Home Page

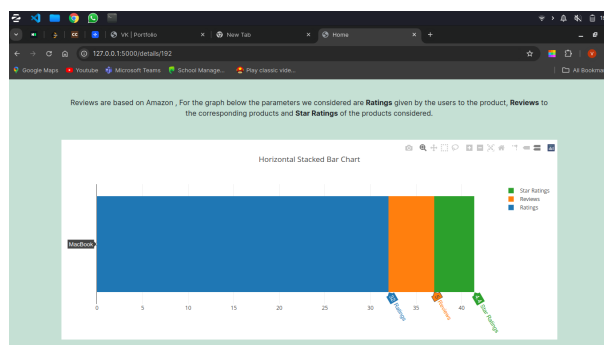
S/NO	Brand	Model	Processor Brand	Ram	Current Price
192	APPLE	MacBook	Intel	8 GB	159990
193	APPLE	MacBook	Intel	8 GB	172090
250	APPLE	MacBook	Intel	16 GB	178990
251	APPLE	MacBook	Intel	16 GB	178990

Sorting Based On Brands

S/NO	Brand	Model	Processor Brand	Ram	Current Price
7	ASUS	ExpertBook	Intel	4 GB	34649
8	Lenovo	i55	Intel	4 GB	39999
11	HP	250	Intel	4 GB	32955
12	HP	250-06	Intel	4 GB	46200
13	Lenovo	IdeaPad	Intel	8 GB	37990
14	ASUS	VivoBook	Intel	4 GB	35990
15	DELL	Vostro	Intel	8 GB	38490
16	RedmiBook	i5	Intel	8 GB	38990
17	HP	Pavilion	Intel	8 GB	33990
18	realme	Book	Intel	8 GB	46990

Sorting Based on Processors

Laptop Details Page



Details Page With Graph

Conclusion:

- The Sentiment Analysis for Laptop Reviews project is a user-friendly and efficient system that automates the manual process of sentiment analysis.
- The system meets the requirements and provides a reliable solution for sentiment analysis.
- Currently, the sentiment analysis using TextBlob is being worked on to provide accurate results.