A Project Report on

Product Comparison System

Submitted in partial fulfillment of the requirements for the award of the degree of

Bachelor of Engineering

in

Computer Science

by

Mukesh Singh(15102041)
Radheshyam Yadav(15102048)
Raj Surve(16202015)

Under the Guidance of

Prof. Sukhada Aloni

Department of Computer Science
A.P. Shah Institute of Technology
G.B.Road,Kasarvadavli, Thane(W), Mumbai-400615
UNIVERSITY OF MUMBAI

Academic Year 2019-2020

Approval Sheet

This Project Report entitled ***"Product Comparison System"*** Submitted by ***"Mukesh Singh"(15102041),"Radheshyam Yadav"(15102048),"Raj Surve"(16202015)***is approved for the partial fulfillment of the requirenment for the award of the degree of ***Bachelor of Engineering*** in ***Computer Science*** from ***University of Mumbai***.

(Prof. Sukhada Aloni)
Guide

Prof. Sachin Malave
Head Department of Computer Science

Place:A.P.Shah Institute of Technology, Thane
Date:

CERTIFICATE

This is to certify that the project entitled ***"Product Comparison System"*** submitted by ***"Mukesh Singh" (15102041), "Radheshyam Yadav" (15102048), "Raj Surve" (16202015)*** for the partial fulfillment of the requirement for award of a degree ***Bachelor of Engineering*** in ***Computer Science.***,to the University of Mumbai,is a bonafide work carried out during academic year 2019-2020.

(Prof. Sukhada Aloni)
Guide

Prof. Sachin Malave
Head Department of Information Technology

Dr. Uttam D.Kolekar
Principal

External Examiner(s)

1.

2.

Place:A.P.Shah Institute of Technology, Thane
Date:

Declaration

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, We have adequately cited and referenced the original sources. We also declare that We have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

_____

(Signature)

_____

(Mukesh Singh and 15102041)
(Radheshyam Yadav and 15102048)
(Raj Surve and 16202015)

Date:

Abstract

In this large growing ecommerce industry there are so many products with different brand's price range are available in ecommerce store such as (Amazon, Flipkart, Snapdeal, Paytm Mall, etc.) where product price range varies with same product, there are different prices on different ecommerce websites there may be some seasonal offers on the product or on that store due to which price may vary. In this busy digitial environment searching about same product in different ecommerce websites may be time consuming for consumers to ease that effectively and efficiently we are creating a Product Comparison System named as Buy Smart which will compare product price from different ecommerce websites with their offers and current availability.

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List of Abbreviations

PHP:	Hypertext Preprocessor
JS:	Java Script
PCS:	Price Comparison System
DB:	Database

Chapter 1

Introduction

Buy Smart is a production comparison system to compare prices of products in different websites at same time based on its availability at the user's location. It will display the exact amount by taking data from different websites in which products are available.The system is based on massive data manipulation and content based analysis technique to analyse the price in different websites.

1.1 Objective

The primary objective is to build a system to compare product prices and accordingly show their availability with a respective portal's buy link. Another objective is to show availability of particular product based on user's location.

1.2 Methods

1.2.1 Data Crawling

The function of data crawling is to crawl the similar products information from various online stores according to the requirements of consumers.

1.2.2 Data Parsing

The crawling data exists in the form of web pages and images, so that web data should be extracted, fit in order to get the relevant information. This format processing is called data parsing

1.2.3 Information Searching

When users enter a keyword, the system will search the information in index library, then the search results will be presented in the form of a list of pages.

Chapter 2

Literature Review

1.Price Comparison System Based on Lucene DOI 10.1109/ICCSE.2013.6553894: Lots of online shopping systems are proposed and used practically due to the rich opportunities provided by the Internet. The traditional 088, however, essentially provides basic browsing via category and "advanced" keyword without any analysis. The paper presents a price comparison system of online products to show all the possible prices of products for customers. In particular, the proposed system develops a multithreaded crawler to implement web information crawling, and uses Lucene, a very popular full-text search library, to implement the data indexing and retrieval. The experimental results demonstrate that the proposed system improves shopping efficiencies for the consumers in a flexible and advanced way. The reasoning why online shopping has become so popular. Many authors (Chaing and Dholakia, 2003, Monsuwé et al., 2004 and Poulter, 2013) believe one of the key reasons is convenience. Shopping online offers pronounced convenience. A key reason some consumers favour online shopping is also due to price comparisons. 85 percent of consumers compares price information online, although it is not evident whether these consumers continue and purchase the products online or on the high street.

2.Comparing different quality models for portals: Web portals are Internet-based applications that enable access to different sources through a single interface. They provide personalization, single sign-on and content aggregation from different sources. Moreover, they can help users to find the information,service or product desired from among a large number of providers without having to navigate through them all one-by-one. A web portal is defined as " a Web site or service that offers a broad array of resources and services, such as e-mail, forums, search engines, and on-line shopping malls.". As yet, however, the concept of "portal" is not well defined, and its use, even within the industry, remains problematic.

Chapter 3

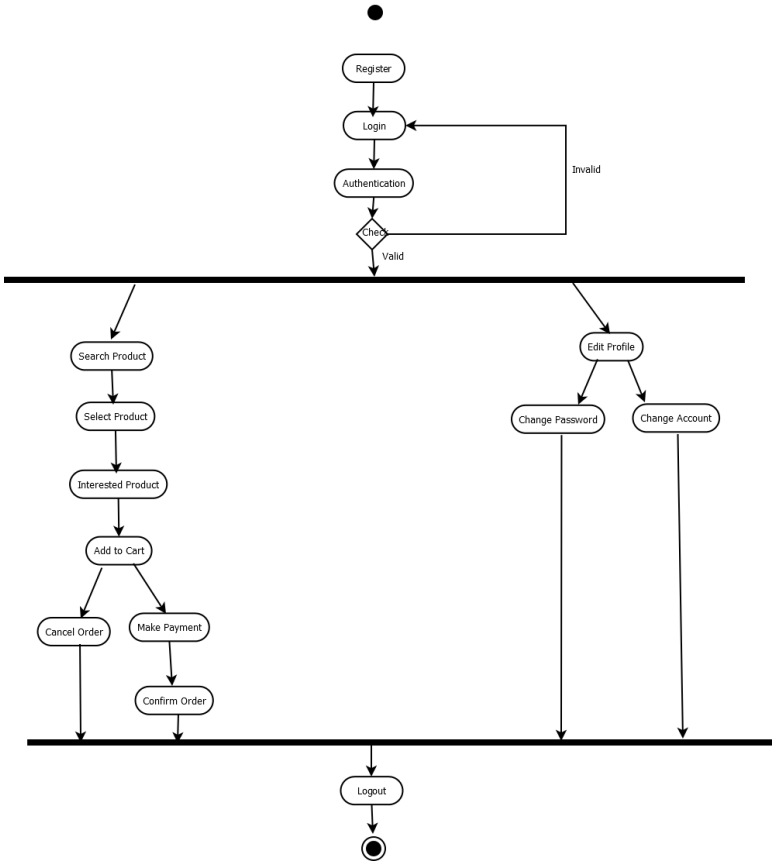
Proposed Concept and Design

3.1 Proposed System

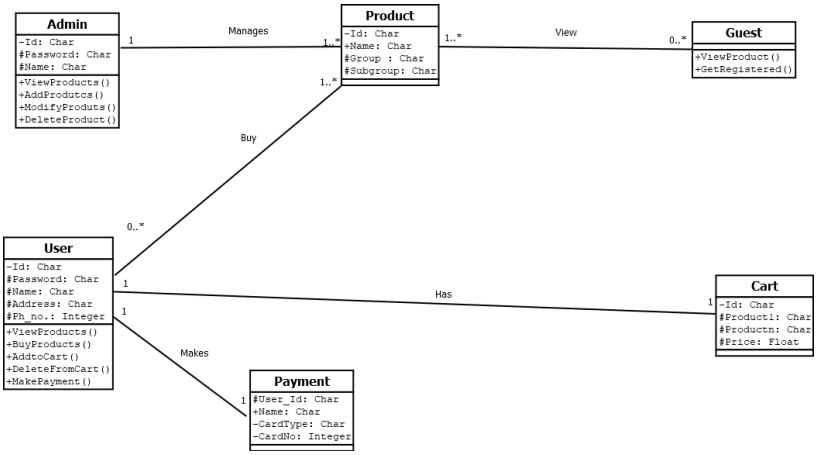
Our system will show the availability status of product. Once, the link of shopping site is pressed it will directly go to to user's respective account, user wont need to enter its login-id again.

3.2 Design

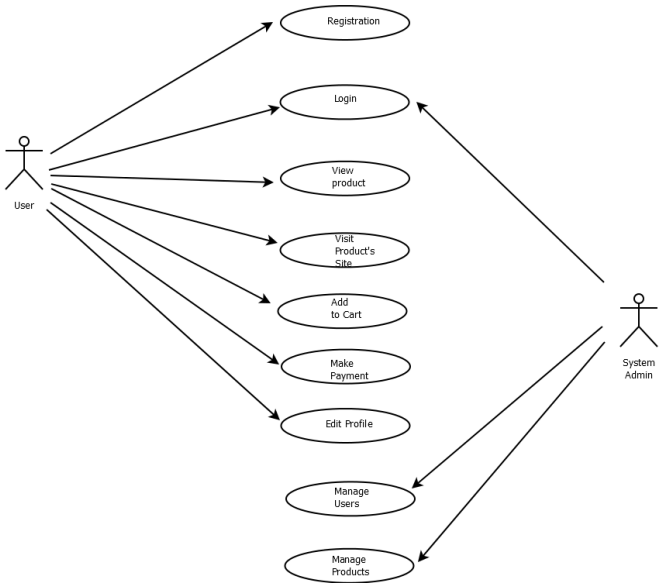
3.2.1 Activity Diagram



3.2.2 Class Diagram



3.2.3 Use Case Diagram



Chapter 4

Project Implementation

4.0.1 Module 1

Login page: This module will help users to register to the system. With this page user information is stored such as name,password,address,payment method,mobile number for authentication this will help user to access the system easily with less difficulties.

4.0.2 Module 2

Home page: Once user gets access to our system, user will enter into our home page where information such as featured product,offers,upcoming product,and various devices will be displayed.

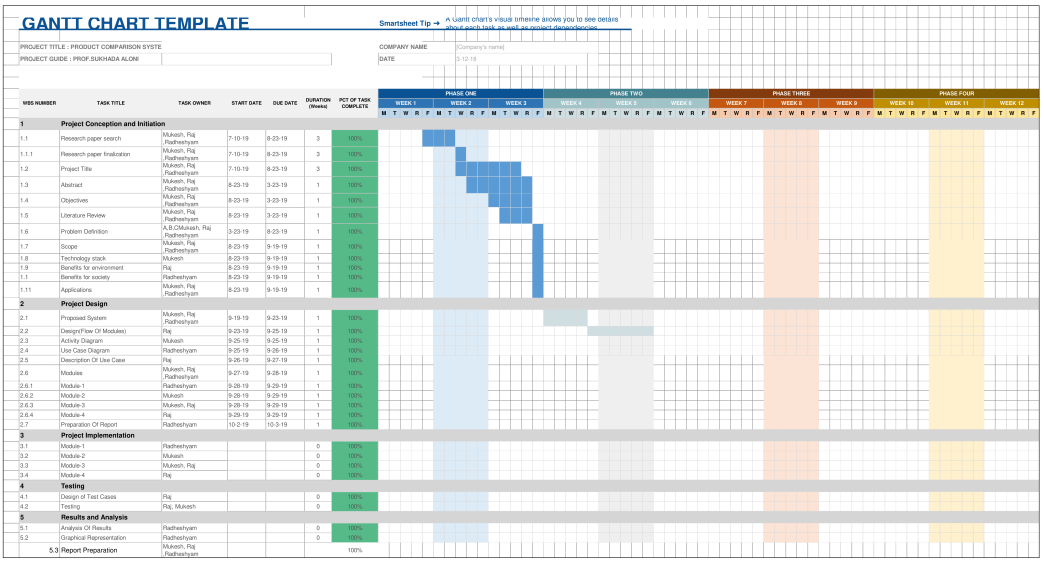
4.0.3 Module 3

Search: In this module user can search the desired device according to user's needs. User can also sort the device on basis of price-range,processor,display,camera system, and various aspects.

4.0.4 Module 4

Device Information: User will get information of the device along with links of various websites where it is available. It will also display ratings and availability details of the devices.

4.1 Gantt Chart



GANTT CHART TEMPLATE

Smartsheet Tip → A Gantt chart's visual timeline allows you to see details about each task as well as project dependencies.

PROJECT TITLE : PRODUCT COMPARISON SYSTE
PROJECT GUIDE : PROF.SUKHADA ALONI
COMPANY NAME [Company's name]
DATE 5-12-19

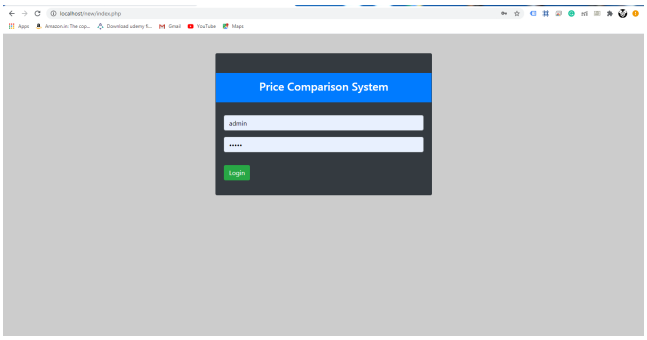
WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION (Weeks)	PCT OF TASK COMPLETE
1	**Project Conception and Initiation**					
1.1	Research paper search	Mukesh, Raj ,Radheshyam	7-10-19	8-23-19	3	100%
1.1.1	Research paper finalization	Mukesh, Raj ,Radheshyam	7-10-19	8-23-19	3	100%
1.2	Project Title	Mukesh, Raj ,Radheshyam	7-10-19	8-23-19	3	100%
1.3	Abstract	Mukesh, Raj ,Radheshyam	8-23-19	3-23-19	1	100%
1.4	Objectives	Mukesh, Raj ,Radheshyam	8-23-19	3-23-19	1	100%
1.5	Literature Review	Mukesh, Raj ,Radheshyam	8-23-19	3-23-19	1	100%
1.6	Problem Definition	A,B,CMukesh, Raj ,Radheshyam	3-23-19	8-23-19	1	100%
1.7	Scope	Mukesh, Raj ,Radheshyam	8-23-19	9-19-19	1	100%
1.8	Technology stack	Mukesh	8-23-19	9-19-19	1	100%
1.9	Benefits for environment	Raj	8-23-19	9-19-19	1	100%
1.1	Benefits for society	Radheshyam	8-23-19	9-19-19	1	100%
1.11	Applications	Mukesh, Raj ,Radheshyam	8-23-19	9-19-19	1	100%
2	**Project Design**					
2.1	Proposed System	Mukesh, Raj ,Radheshyam	9-19-19	9-23-19	1	100%
2.2	Design(Flow Of Modules)	Raj	9-23-19	9-25-19	1	100%
2.3	Activity Diagram	Mukesh	9-25-19	9-25-19	1	100%
2.4	Use Case Diagram	Radheshyam	9-25-19	9-26-19	1	100%
2.5	Description Of Use Case	Raj	9-26-19	9-27-19	1	100%
2.6	Modules	Mukesh, Raj ,Radheshyam	9-27-19	9-28-19	1	100%
2.6.1	Module-1	Radheshyam	9-28-19	9-29-19	1	100%
2.6.2	Module-2	Mukesh	9-28-19	9-29-19	1	100%
2.6.3	Module-3	Mukesh, Raj	9-28-19	9-29-19	1	100%
2.6.4	Module-4	Raj	9-29-19	9-29-19	1	100%
2.7	Preparation Of Report	Radheshyam	10-2-19	10-3-19	1	100%
3	**Project Implementation**					
3.1	Module-1	Radheshyam			0	100%
3.2	Module-2	Mukesh			0	100%
3.3	Module-3	Mukesh, Raj			0	100%
3.4	Module-4	Raj			0	100%
4	**Testing**					
4.1	Design of Test Cases	Raj			0	100%
4.2	Testing	Raj, Mukesh			0	100%
5	**Results and Analysis**					
5.1	Analysis Of Results	Radheshyam			0	100%
5.2	Graphical Representation	Radheshyam			0	100%
5.3	Report Preparation	Mukesh, Raj ,Radheshyam				100%

PHASE ONE: WEEK 1, WEEK 2, WEEK 3
PHASE TWO: WEEK 4, WEEK 5, WEEK 6
PHASE THREE: WEEK 7, WEEK 8, WEEK 9
PHASE FOUR: WEEK 10, WEEK 11, WEEK 12

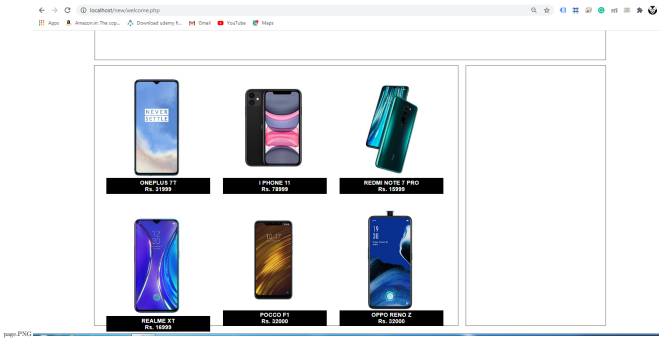
Chapter 5

Output

Login page:

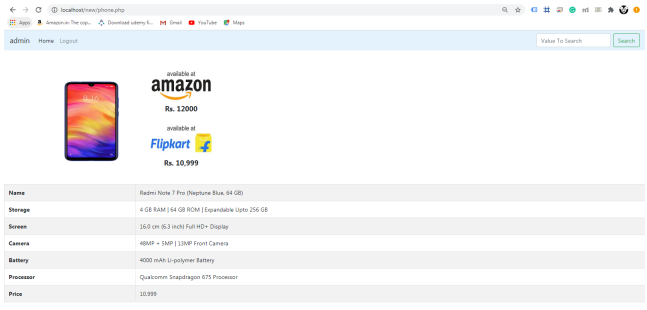


Home page:



page.PNG

Information page:



search module.PNG

Chapter 6

Conclusion and Future scope

By making a single platform available for users to compare and buy products from multiple shopping portals will make their shopping experience much more simple. This will reduce user's time from jumping from one site to another. In future We can add local businessmen and compare prices with shopping sites. This will help to create various opportunities for local businessmen to expand their business.

Bibliography

[1] A Price Comparison System Based on Lucene : DOI 10.1109/ICCSE.2013.6553894

[2] Ángeles Moraga Coral Calero Mario Piattini, (2006),"Comparing different quality models for portals", Online Information Review, Vol. 30 Iss 5 pp. 555 - 568 Permanent link to this document: http://dx.doi.org/10.1108/14684520610706424

[3] METHOD AND SYSTEM FOR PROVIDING ONLINE COMPARISON SHOPPING Inventor: Geoffrey D. Alexander, Chapel Hill, NC (US) Assignee: International Business Machines Corporation, Armonk, NY (US) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 527 days. Appl. No.: 09/863,342 Filed: May 23, 2001

Appendices

Steps to install apache server in windows:

Step 1: download the files.
Step 2: extract the files.
Step 3: configure Apache.
Step 4: change the web page root (optional).
Step 5: test your installation.

Acknowledgement

We have great pleasure in presenting the report on **Product Comparison System.** We take this opportunity to express our sincere thanks towards our guide **Prof. Sukhada Aloni** Department of Computer Science, APSIT thane for providing the technical guidelines and suggestions regarding line of work. We would like to express our gratitude towards his constant encouragement, support and guidance through the development of project.

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Mukesh Singh:
15102041

Radheshyam Yadav
15102048

Raj Surve
16202015