



SIMATS ENGINEERING

SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES



CHARAN. A

Computer Science Engineering

PROFILE

Charan. A (192011415)

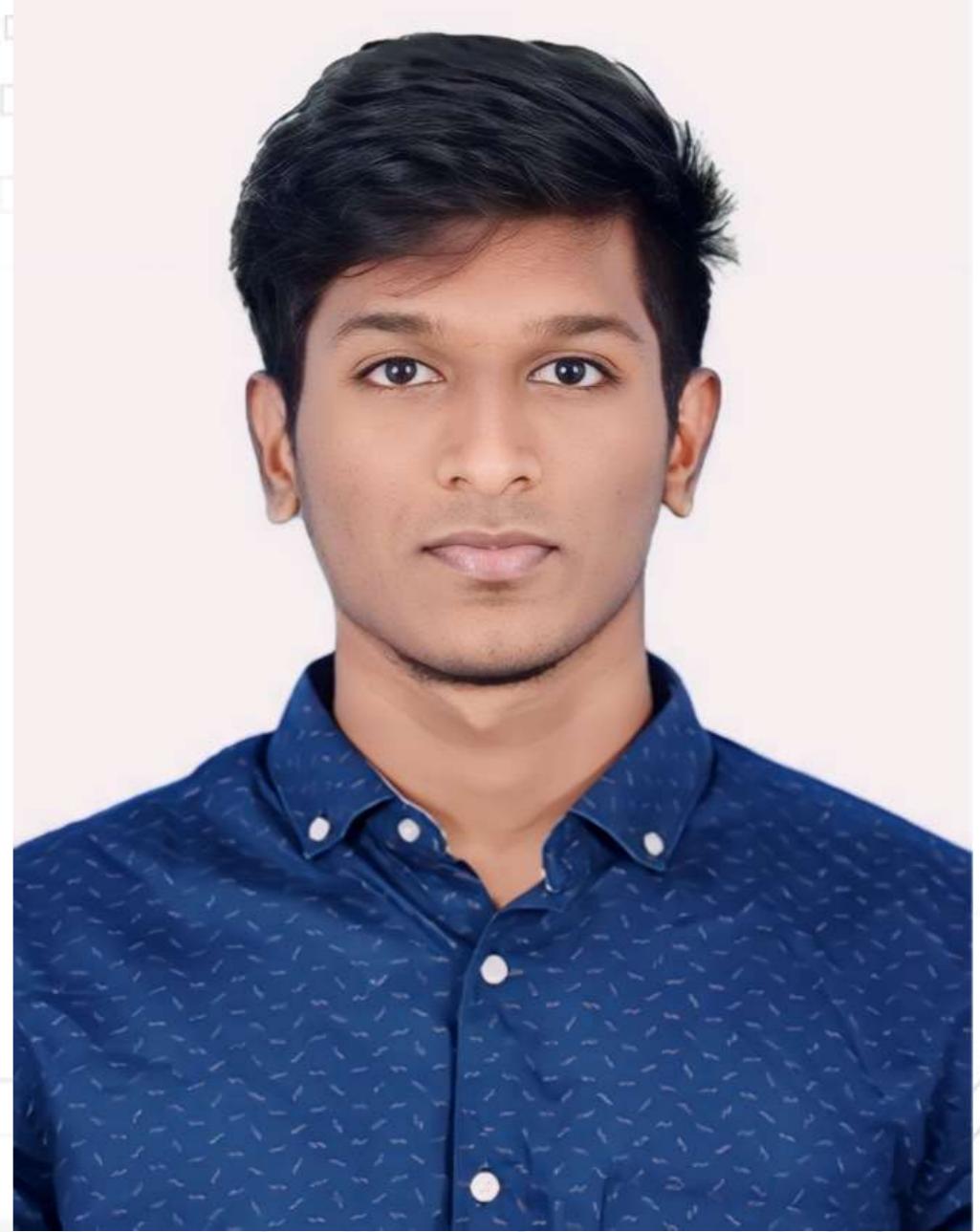
- An aspiring computer science student in the final year of B.E with a strong foundation in algorithms, data structures, and software development.
- Versatile across interdisciplinary fields, adept at integrating knowledge from various domains to solve complex problems and foster innovation.
- I'm passionate about pursuing a career as a Software engineer, where I can leverage my skills to develop innovative solutions.
- Always eager to broaden my understanding and delve into new areas of knowledge.

Technical Skills

- Full stack development
- MERN stack
- Java, Python, C
- Data Structures and Algorithms
- Google Firebase

Interpersonal Skills

- Adaptability
- Critical-thinking
- Initiative
- Patience
- Time-management



ACHIEVEMENTS

- Presented a paper titled “Game testing automation framework for game development studios” in an “National Conference on recent trends in analytics and computing technologies (RTACT -2024)”
- Completed the “Full stack web development” course in udemy.
- Completed the “Data structures and algorithms in C++” course in udemy.
- Completed the “Python data structures and machine learning” course in perfect plan b.
- Secured second place in “National talent hunt - 2024” conducted by l&t edutech.
- Received 2nd Place in Western dance, Battle of bands of SIMAM 2022, Cultural fest of SIMATS for the Samudra’s Team.
- Received 1st Place in Beatbox, Show your skills, Singing, Street jam of SIMAM 2023, Cultural fest of SIMATS as part of the Rajyas team.
- I successfully completed the task of developing a Swiggy clone landing page web app assigned by “OneYes Infotech Solutions” within a day. This achievement demonstrates my ability to deliver high-quality work efficiently under tight deadlines.
- I am honored to have received the SIMAM Recognition Award at the “SIMAM Cultural Event”. This accolade reflects my commitment and contributions to the event, and I am grateful for the recognition.
- I facilitated an intensive one-day workshop on "Guidance for Career Growth" at Saveetha School of Engineering, equipping over 70 junior students with strategies for professional advancement and valuable industry insights. This workshop aimed to empower students with the knowledge and skills necessary to navigate their future careers successfully.
- I successfully cleared Level 1.1 of the Flipkart Grid 5.0 E-Commerce & Tech quiz organized by Unstop. This accomplishment highlights my knowledge and expertise in e-commerce and technology domains.

GRADUATE RECORD BOOK

CERTIFICATE OF COMPLETION

This is to certify that the declaration of the academic activities contained in this Graduate Record book is the bonafide work completed by **Charan. A (192011415)** during his Undergraduate program from 2020-2024

Dr. K. Malathi
Year Incharge

Dr. B. Ramesh
Principal

OVERALL ACADEMIC PROFILE





ACADEMICS



SAVEETHA

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B.E. / B.TECH. DEGREE EXAMINATIONS GRADE SHEET



UG : 2209513

NAME OF THE CANDIDATE	CHARAN A		REGISTER NO.	192011415		
DATE OF BIRTH	16 January 2003		MONTH & YEAR OF EXAMINATION	DEC-2021		
COLLEGE OF STUDY	SAVEETHA SCHOOL OF ENGINEERING		DATE OF PUBLICATION	21/01/2022		
PROGRAMME & BRANCH	COMPUTER SCIENCE AND ENGINEERING		REGULATION	2019		
Sem Code	Course Code	Course Title	Credits	Grade	Result	

02	CSA08	PYTHON PROGRAMMING	04	A	PASS	
02	CSA09	PROGRAMMING IN JAVA	04	A	PASS	
02	CSA10	SOFTWARE ENGINEERING	04	B	PASS	
02	ECA10	MICROPROCESSORS AND MICROCONTROLLERS	04	C	PASS	
02	UBA33	PRINCIPLES OF MANAGEMENT	04	B	PASS	

- END OF STATEMENT -



Semester	I	II	III	IV	V	VI	VII	VIII
Credits Registered		20						
Credits Earned		20						
Grade Point Earned		164						
Grade Point Average (GPA)		8.200						
Cumulative Credits Earned	28	Cumulative Grade Point Average (CGPA)	8.286	Medium of Instruction	ENGLISH			

RA - Reappearance is Required

SA - Shortage of Attendance

Ab - Absent for University Examination

F - Fail



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** - denotes "Non CGPA Course"



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B.E. / B.TECH. DEGREE EXAMINATIONS GRADE SHEET



UG : 2208827

NAME OF THE CANDIDATE	CHARAN A		REGISTER NO.	192011415		
DATE OF BIRTH	16 January 2003		MONTH & YEAR OF EXAMINATION	MAY-2021		
COLLEGE OF STUDY	SAVEETHA SCHOOL OF ENGINEERING		DATE OF PUBLICATION	31/05/2021		
PROGRAMME & BRANCH	COMPUTER SCIENCE AND ENGINEERING		REGULATION	2019		
Sem Code	Course Code	Course Title	Credits	Grade	Result	

01	UBA01	ENGINEERING MATHEMATICS I	04	B	PASS	
01	UBA28	PROFESSIONAL ETHICS AND LEGAL PRACTICES	04	A	PASS	

- END OF STATEMENT -



Semester	I	II	III	IV	V	VI	VII	VIII
Credits Registered		8						
Credits Earned		8						
Grade Point Earned		68						
Grade Point Average (GPA)		8.500						
Cumulative Credits Earned	8	Cumulative Grade Point Average (CGPA)	8.500	Medium of Instruction	ENGLISH			

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GRADE SHEET**

UG : 2301120

NAME OF THE CANDIDATE	CHARAN A	REGISTER NO.	192011415		
DATE OF BIRTH	16 January 2003	MONTH & YEAR OF EXAMINATION	SEP-2022		
COLLEGE OF STUDY	SAVEETHA SCHOOL OF ENGINEERING	DATE OF PUBLICATION	27/09/2022		
PROGRAMME & BRANCH	COMPUTER SCIENCE AND ENGINEERING	REGULATION	2019		
Sem Code	Course Code	Course Title	Credits	Grade	Result
04	BTA01	BIOLOGY AND ENVIRONMENTAL SCIENCE FOR ENGINEERS	04	B	PASS
04	CSA04	OPERATING SYSTEMS	04	B	PASS
04	CSA05	DATABASE MANAGEMENT SYSTEMS	04	B	PASS
04	EEA01	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING	04	C	PASS
04	MEA02	ENGINEERING WORKSHOP	04	B	PASS

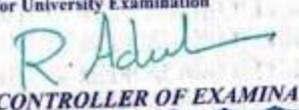
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Semester	I	II	III	IV	V	VI	VII	VIII
Credits Registered				20				
Credits Earned				20				
Grade Point Earned				156				
Grade Point Average (GPA)				7.800				
Cumulative Credits Earned	68	Cumulative Grade Point Average (CGPA)	8.000	Medium of Instruction	ENGLISH			

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GRADE SHEET**

UG : 2300347

NAME OF THE CANDIDATE	CHARAN A	REGISTER NO.	192011415		
DATE OF BIRTH	16 January 2003	MONTH & YEAR OF EXAMINATION	APR-2022		
COLLEGE OF STUDY	SAVEETHA SCHOOL OF ENGINEERING	DATE OF PUBLICATION	31/05/2022		
PROGRAMME & BRANCH	COMPUTER SCIENCE AND ENGINEERING	REGULATION	2019		
Sem Code	Course Code	Course Title	Credits	Grade	Result
03	CSA02	C PROGRAMMING	04	C	PASS
03	CSA06	DESIGN AND ANALYSIS OF ALGORITHMS	04	C	PASS
03	CSA17	ARTIFICIAL INTELLIGENCE	04	A	PASS
03	CSA39	MOBILE COMMERCE	04	B	PASS
03	ITA03	MOBILE COMPUTING	04	B	PASS

- END OF STATEMENT -



Semester	I	II	III	IV	V	VI	VII	VIII
Credits Registered				20				
Credits Earned				20				
Grade Point Earned				156				
Grade Point Average (GPA)				7.800				
Cumulative Credits Earned	48	Cumulative Grade Point Average (CGPA)	8.083	Medium of Instruction	ENGLISH			

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B.E. / B.TECH. DEGREE EXAMINATIONS
GRADE SHEET UG : 2301877

NAME OF THE CANDIDATE	CHARAN A		REGISTER NO.	192011415		
DATE OF BIRTH	16 January 2003		MONTH & YEAR OF EXAMINATION	DEC-2022		
COLLEGE OF STUDY	SAVEETHA SCHOOL OF ENGINEERING		DATE OF PUBLICATION	03/02/2023		
PROGRAMME & BRANCH	COMPUTER SCIENCE AND ENGINEERING		REGULATION	2019		
Sem Code	Course Code	Course Title	Credits	Grade	Result	
05	CSA12	COMPUTER ARCHITECTURE	04	C	PASS	
05	CSA14	COMPILER DESIGN	04	A	PASS	
05	CSA37	SOFTWARE TESTING	04	D	PASS	
05	ECA47	PRINCIPLES OF DIGITAL SYSTEM DESIGN	04	D	PASS	

- END OF STATEMENT -



Semester	I	II	III	IV	V	VI	VII	VIII
Credits Registered					16			
Credits Earned					16			
Grade Point Earned					112			
Grade Point Average (GPA)					7.000			
Cumulative Credits Earned	84	Cumulative Grade Point Average (CGPA)	7.810	Medium of Instruction	ENGLISH			

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B.E. / B.TECH. DEGREE EXAMINATIONS
GRADE SHEET UG : 2306972

NAME OF THE CANDIDATE	CHARAN A		REGISTER NO.	192011415		
DATE OF BIRTH	16 January 2003		MONTH & YEAR OF EXAMINATION	JAN-2024		
COLLEGE OF STUDY	SAVEETHA SCHOOL OF ENGINEERING		DATE OF PUBLICATION	05/02/2024		
PROGRAMME & BRANCH	COMPUTER SCIENCE AND ENGINEERING		REGULATION	2019		
Sem Code	Course Code	Course Title	Credits	Grade	Result	
07	CSA07	COMPUTER NETWORKS	04	B	PASS	
07	CSA16	DATA WAREHOUSING AND DATA MINING	04	A	PASS	
07	UBA09	PROBABILITY AND STATISTICS	04	C	PASS	
07	UBA29	TECHNICAL ENGLISH	04	B	PASS	

- END OF STATEMENT -



Semester	I	II	III	IV	V	VI	VII	VIII
Credits Registered								16
Credits Earned								16
Grade Point Earned								128
Grade Point Average (GPA)								8.000
Cumulative Credits Earned	136	Cumulative Grade Point Average (CGPA)	7.882	Medium of Instruction	ENGLISH			

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**B.E. / B.TECH. DEGREE EXAMINATIONS
GRADE SHEET**

UG: 2304106

NAME OF THE CANDIDATE	CHARAN A		REGISTER NO.	192011415	
DATE OF BIRTH	16 January 2003		MONTH & YEAR OF EXAMINATION	JUN-2023	
COLLEGE OF STUDY	SAVEETHA SCHOOL OF ENGINEERING		DATE OF PUBLICATION	10/07/2023	
PROGRAMME & BRANCH	COMPUTER SCIENCE AND ENGINEERING		REGULATION	2019	
Sem	Course Code	Course Title	Credits	Grade	Result
06	CSA01	PROBLEM SOLVING SKILLS	04	A	PASS
06	CSA03	DATA STRUCTURES	04	A	PASS
06	CSA11	OBJECT ORIENTED ANALYSIS AND DESIGN	04	C	PASS
06	CSA13	THEORY OF COMPUTATION	04	B	PASS
06	CSA15	CLOUD COMPUTING AND BIG DATA ANALYTICS	04	B	PASS
06	MEA01	ENGINEERING GRAPHICS	04	B	PASS
06	UBA04	DISCRETE MATHEMATICS	04	B	PASS
06	UBA20	ENGINEERING CHEMISTRY	04	C	PASS
06	UBA21	APPLIED PHYSICS	04	B	PASS

- END OF STATEMENT -



Semester	I	II	III	IV	V	VI	VII	VIII
Credits Registered					36			
Credits Earned					36			
Grade Point Earned					288			
Grade Point Average (GPA)					8.000			
Cumulative Credits Earned	120	Cumulative Grade Point Average (CGPA)	7.867	Medium of Instruction	ENGLISH			

RA - Reappearance is Required SA - Shortage of Attendance AB - Absent for University Examination F - Fall

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**B.E. / B.TECH. DEGREE EXAMINATIONS
GRADE SHEET**

UG: 2404014

NAME OF THE CANDIDATE	CHARAN A		REGISTER NO.	192011415	
DATE OF BIRTH	16 January 2003		MONTH & YEAR OF EXAMINATION	JUN-2024	
COLLEGE OF STUDY	SAVEETHA SCHOOL OF ENGINEERING		DATE OF PUBLICATION	24/06/2024	
PROGRAMME & BRANCH	COMPUTER SCIENCE AND ENGINEERING		REGULATION	2019	
Sem	Course Code	Course Title	Credits	Grade	Result
08	SPIC3	MINI PROJECT	03	A	PASS
08	SPIC4	CORE PROJECT	06	A	PASS
08	SPIC5	INDUSTRIAL INTERNSHIP	01	S	PASS
08	CSA29	PROGRAMMING USABLE INTERFACE	04	S	PASS
08	CSA34	XML AND WEB SERVICES	04	S	PASS
08	CSA35	ADVANCED DATABASES	04	S	PASS
08	ECA20	MOBILE APPLICATION DEVELOPMENT	04	S	PASS

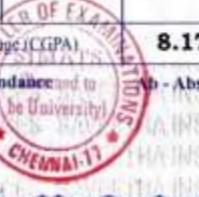
- END OF STATEMENT -



Semester	I	II	III	IV	V	VI	VII	VIII
Credits Registered								28
Credits Earned								28
Grade Point Earned								269
Grade Point Average (GPA)								9.607
Cumulative Credits Earned	164	Cumulative Grade Point Average (CGPA)	8.177	Medium of Instruction	ENGLISH			

RA - Reappearance is Required SA - Shortage of Attendance and to be University AB - Absent for University Examination F - Fall

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ONLINE COURSES





Certificate no: UC-f4f450ac-fddd-40f2-8f80-5ef32297b69d

Certificate url: ude.my/UC-f4f450ac-fddd-40f2-8f80-5ef32297b69d

Reference Number: 0004

CERTIFICATE OF COMPLETION

The Complete 2023 Web Development Bootcamp

Instructors **Dr. Angela Yu**

charan.A

Date **Oct. 6, 2023**

Length **63 total hours**



Certificate no: UC-56e9e934-2bed-4e67-aad2-4e1e6133ba47

Certificate url: ude.my/UC-56e9e934-2bed-4e67-aad2-4e1e6133ba47

Reference Number: 0004

CERTIFICATE OF COMPLETION

C++ Data Structures & Algorithms + LEETCODE Exercises

Instructors **Scott Barrett**

charan.A

Date **June 1, 2023**

Length **7.5 total hours**



CERTIFICATE OF COMPLETION

Presented to

A.charan

For successfully completing a free online course

AWS Vs Azure VS GCP

Provided by

Great Learning Academy

(On April 2023)

To verify this certificate visit verify.mygreatlearning.com/YSYWISPY

A professional photograph of a diverse group of people in a modern office environment. They are dressed in business attire, including suits and blouses. The background is slightly blurred, showing office equipment and a window with a view of the outdoors.

PROFESSIONAL COURSES



Career Essentials in Generative AI by Microsoft and LinkedIn

Learning Path completed by Charan Joseph
Aug 05, 2024 at 01:42PM UTC • 4 hours 53 minutes

Top skills covered

Computer Ethics

Artificial Intelligence (AI)

Generative AI

A handwritten signature in black ink that reads "Dan Bodenitz".

Head of Global Content, Learning

Certificate ID: c4b13c5c16b1838bd05fe4b3efa86db42fcec004819aa6bae6f2393ee0fe5dd2



A group of diverse interns are gathered around a table in an office, focused on a laptop screen. They are dressed in casual professional attire. The background features a large window with a view of a modern city skyline at night, and a sign on the wall that reads "MAKE IT GREAT MAKE IT WORK MAKE IT SO MAKE IT HAPPEN MAKE IT BETTER".

INTERNSHIPS

C.ID: ea75afe



CodSoft

CERTIFICATE

OF COMPLETION
PROUDLY PRESENTED TO

CHARAN A

has successfully completed 4 weeks of a virtual internship program in

Web Development

with wonderful remarks at **CODSOFT** from **01/12/2023 to 31/12/2023**.

We were truly amazed by his/her showcased skills and invaluable contributions to
the tasks and projects throughout the internship.





Founder



MSME
MICRO, SMALL & MEDIUM ENTERPRISES
मात्रम् लक्ष्यं एवं मत्यम् चरणम्

contact@codsoft.in

www.codsoft.in

Date: 03/01/2024



RESEARCH

Title Page:

Comparative Analysis of Response Time in the Pricewise Application Across Android and Web Platforms

Charan A¹, Dr. S.Christy²

Charan A¹ Dr.S.Christy²

Research Scholar, Project Guide, Corresponding Author,
Department of Computer Science and Engineering,
Saveetha School of Engineering,
Saveetha Institution of Medical and Technical Sciences,
Saveetha University, Chennai, Tamil Nadu, India, Pin: 602105.

ABSTRACT

Aim: This research aims to evaluate and compare the user experience and response time of the PRICEWISE online application across different platforms, with a focus on price comparison features. **Materials and methods:** The study involves an analysis of the Web Application and Android Application, with a sample size of (N=12) for each platform, ensuring statistical power of 80%. The study was conducted at Tech University, utilising a sample size of (N=12) for both the Web and Android platforms to ensure robust statistical power. **Result:** The Web Application demonstrates a response time of 25.8983ms, outperforming the Android Application with a response time of 55.2375ms. **Conclusion:** The research indicates that the Web Application provides a faster response time compared to the Android Application in the context of PRICEWISE price comparison features.

Keywords: Web Application, Android, User Experience, Response Time, Price Comparison, Research

INTRODUCTION :

In this study, It delves into the domain of PRICEWISE, a web application designed for efficient price comparison. Its focus lies in analysing and comparing user experiences and response times between the Web and Android platforms (Rezaei and Sajad 2017). As consumers increasingly rely on online platforms for price-related decisions, optimising the user experience is crucial for the success of applications like PRICEWISE (Sreedhar and G. 2018). This aims to identify potential navigation delays and improvements needed in both platforms to enhance the overall user experience in the context of real-time price comparisons (Saurabh 2007). Across existing literature, studies have explored various aspects of user behaviour in the e-commerce

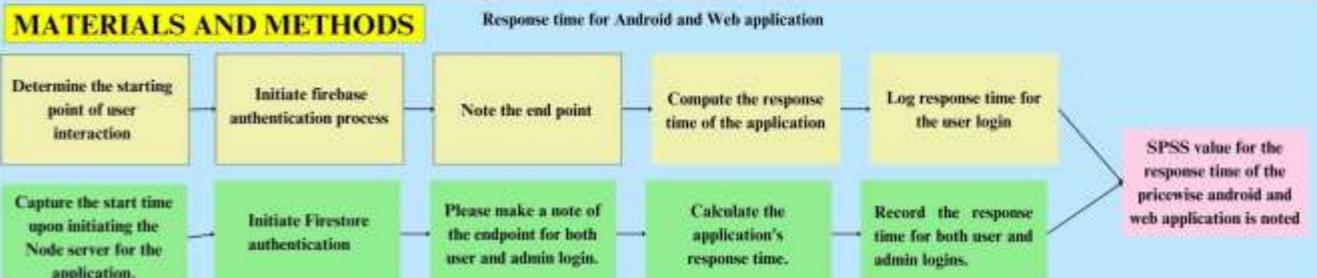
Comparative Analysis of Response Time in the Pricewise Application Across Android and Web Platforms

INTRODUCTION

- Dual user login in Pricewise offers two separate logins, catering to both users and administrators, ensuring a smooth and tailored experience for each role.
- Pricewise simplifies comparing electronic product prices across major platforms like Amazon, Flipkart, Snapdeal, and eBay. Real-time data ensures informed decisions without the headache.
- Efficient administrative management offers admins have powerful tools to oversee the platform, manage products effectively, and enhance instruction quality by adding required products.
- Stay ahead of the game with Pricewise's instantaneous offer notifications. Be the first to seize exclusive deals, discounts, and promotions across various platforms, ensuring to never miss out on valuable savings opportunities.
- Stay in the know with Pricewise's real-time updates on prices, offers, and coupons. The intuitive interface ensures effortless navigation, enabling to compare prices



MATERIALS AND METHODS



RESULTS



Fig.1: Log in page of the Pricewise application. The user ID and password must be the same as those used during sign-up.

Pricewise Android and Web application



Fig.2: User Signup page for the pricewise web application which allows User to register the User Id and password.

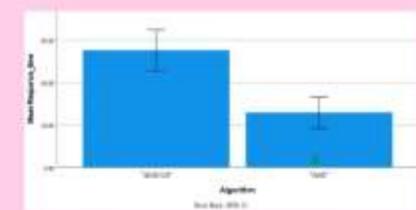


Fig.3: Mean response time: Android Development (55.2375), Web Development (25.8983) Standard deviations: Android Development (4.82386), Web Development (3.71016).

DISCUSSION AND CONCLUSION

- The Advantages of this application are easy user interface navigation in Pricewise user interface and the process of comparing prices and accessing exclusive offers, enabling users to maximize their savings on electronic products from major e-commerce platforms.
- With Pricewise's real-time updates on prices, offers, and coupons, users can stay informed about the latest deals and discounts, ensuring to never miss out on valuable opportunities to save money.
- The Disadvantages of this application is when Pricewise covers major e-commerce platforms like Amazon, Flipkart, Snapdeal, and eBay, it may not include all smaller or niche retailers, potentially limiting the scope of price comparison for certain products.
- Pricewise relies on internet connectivity for real-time updates and notifications. Users in areas with poor internet connectivity may experience delays or difficulties in accessing the latest information.
- Pricewise could expand its coverage by integrating with more e-commerce platforms, allowing users to compare prices and access offers from a wider range of retailers. This would enhance the app's usefulness and attract a larger user base.

BIBLIOGRAPHY

- Mazumbar, Tridib. 2020. Pricing Of Products & Services. World Scientific.
- Rajagopal. 2013. Marketing Decision Making and the Management of Pricing: Successful Business Tools. IGI Global.
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- Stockenschnit, Heiner, and Dietmar Jannach. 2015. E-Commerce and Web Technologies: 16th International Conference on Electronic Commerce and Web Technologies, EC-Web 2015, Valencia, Spain, September 2015, Revised Selected Papers. Springer.

Title Page:

A Comparative Study of Battery Consumption in Electronic Product Price Comparison Applications on Android and Web Platforms: Analysis of Amazon, Flipkart, Snapdeal, and eBay Across Android and Web Platforms

Charan A¹, Dr. S.Christy²

Charan A¹ Dr.S.Christy²

Research Scholar, Project Guide, Corresponding Author,
Department of Computer Science and Engineering,
Saveetha School of Engineering,
Saveetha Institution of Medical and Technical Sciences,
Saveetha University, Chennai, Tamil Nadu, India, Pin: 602105.

ABSTRACT:

Aim: This study aims to assess and compare the user experience and battery consumption of the Pricewise online application on different platforms, with a specific focus on price comparison features. **Materials and Methods:** The research involved an in-depth analysis of both the Web Application and Android Application, employing a substantial sample size ($N=14$) for each platform to ensure statistical reliability with 80% power. The evaluation primarily focused on real-time price comparison features. **Result:** The measured battery consumption for the Web Application was recorded at a remarkable 6.0393%, while the Android Application exhibited a comparatively higher battery consumption of 19.3571%. Statistical analysis, employing a two-sample t-test, indicated a significant difference between the platforms ($p=0.043$). This underscores the Web Application's superior performance in battery consumption, affirming its efficiency in delivering prompt and responsive price comparison features within the Pricewise framework. **Conclusion:** In conclusion, this research highlights the advantageous battery consumption of the Pricewise Web Application compared to its Android counterpart. The findings affirm the Web Application's proficiency in providing users with a swift and efficient experience in real-time price comparisons, thereby enhancing the overall user experience.

Keywords: Web Application, Android, User Experience, Battery consumption, Price Comparison, Research

INTRODUCTION:

The efficient use of battery power becomes a critical factor in the ever-changing world of electronic goods price comparison applications. This study conducts a thorough investigation of power usage on the Android and web platforms, concentrating on four well-known applications: eBay, Amazon, Flipkart, and Snapdeal (D. Li et al. 2014). This study, which drew influence from the influential writings of Adams, Carter, and Harrison, emphasises how crucial it is to maximise energy efficiency in order to improve mobile shopping overall. The current literature has established a strong basis by highlighting methods for improving energy efficiency in cross-platform electronic goods price comparison applications (González-Cañete and Casilar 2020). With rigorous examination and development of the ideas offered by Adams, Carter, and Harrison, this research seeks to make a substantial contribution to this developing topic ("Measuring Power Consumption in Mobile Devices for Energy Sustainable App Development")

A Comparative Study of Battery Consumption in Electronic Product Price Comparison Applications on Android and Web Platforms: Analysis of Amazon, Flipkart, Snapdeal, and eBay Across Android and Web Platforms

INTRODUCTION

- The platform simplifies the process of comparing prices across major e-commerce platforms, including Amazon, Flipkart, Snapdeal, and eBay.
- Pricewise ensures users stay ahead of the curve with real-time notifications about exclusive offers and promotions. Be the first to know about lightning deals, special promotions, and discounts across various platforms, ensuring to never miss out on valuable savings opportunities.
- The platform caters to individual preferences by offering platform-specific insights. Whether hunting for lightning deals on Amazon or special promotions on Flipkart, Pricewise delivers personalized recommendations tailored to shopping needs.
- Users can easily browse and apply free coupons from various e-commerce platforms during the checkout process, maximizing cost savings with every purchase.
- The intuitive interface allows for effortless navigation, price comparison, receiving notifications, and discovering valuable coupons, enhancing the overall shopping journey.

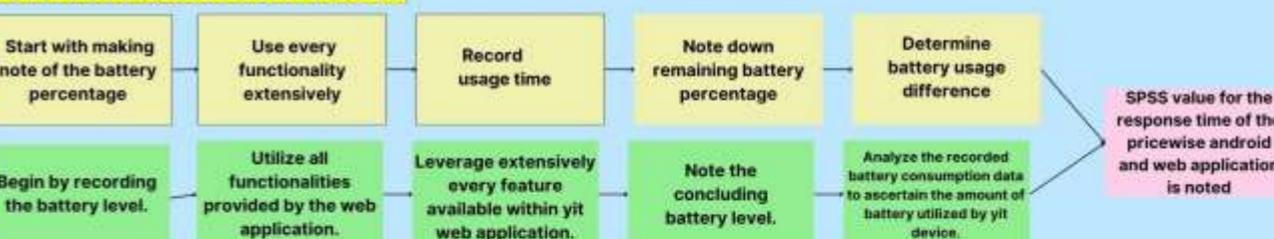
MATERIALS AND METHODS

RESULTS


Fig.1: The list categories of products of Pricewise Web Application shown in this image



Fig.2: Home page of the pricewise web application where the user will be redirected after login.



Fig.3: Mean Battery consumption: Android Development (19.3571), Web Development (6.0393)
Standard deviations: Android Development (3.27243), Web Development (1.62388).

DISCUSSION AND CONCLUSION

- Pricewise boasts a user-friendly interface, ensuring effortless navigation for users. This seamless experience facilitates smooth browsing and enhances overall usability.
- Pricewise simplifies the process of comparing prices and accessing exclusive offers from major e-commerce platforms. Users can effortlessly maximize their savings on electronic products, thanks to the platform's streamlined approach.
- While Pricewise covers major e-commerce platforms like Amazon, Flipkart, Snapdeal, and eBay, smaller or niche retailers may not be included. This limitation could restrict users' ability to compare prices for certain products across a wider range of sources.
- Pricewise's real-time updates and notifications rely on internet connectivity. Users in areas with poor connectivity may encounter delays or difficulties in accessing the latest information, potentially impacting their shopping experience.
- Expansion Potential:** Pricewise has the opportunity to broaden its coverage by integrating with additional e-commerce platforms. This strategic move would enable users to compare prices and access offers from a more extensive range of retailers, thereby enhancing the app's utility and attracting a larger user base.

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Title Page:

Analysing Development Time of Electronic Product Price Comparison Applications on Android and Web Platforms

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ABSTRACT

Aim: The purpose of this study is to evaluate and contrast the PRICEWISE web application's development time across several platforms, with an emphasis on features that allow for price comparison.

Materials and Methods: The study entailed a comprehensive examination of the Web and Android applications, utilising a sizable sample size ($N=10$) for each platform to guarantee statistical dependability with 80% power. Features that allow for real-time pricing comparison were the main focus of the review.

Result: The Android application required 27.6300 hours of development effort, compared to 13.2200 hours for the Web application. A two-sample t-test used in statistical analysis revealed a significant difference between the platforms. This highlights how quickly the Web Application can be developed, confirming its value in providing quick and responsive tools for price comparison within the PRICEWISE framework. **Conclusion:** This study concludes by highlighting the PRICEWISE Web Application's faster development time than that of its Android equivalent. The results confirm that the Web Application is capable of giving consumers a quick and easy way to compare prices in real time, which improves the user experience in general.

Keywords:

Web Application, Android, User Experience, Development time, Price Comparison, Research

INTRODUCTION:

In the dynamic realm of price comparison applications for electrical items, optimising development time becomes imperative. This study focuses on four popular applications: eBay, Amazon, Flipkart, and Snapdeal (Trivedi 2020). It thoroughly examines development time on the Android and web platforms. Based on the seminal works of Adams, Carter, and Harrison, this study highlights the significance of optimising development efficiency to improve mobile shopping as a whole (Papapetrou and Lalou 2015). By emphasising techniques to increase development efficiency in cross-platform electronic products pricing comparison applications, the existing literature has laid a solid foundation (Meier 2010). By conducting a thorough analysis and expanding upon the concepts presented by Adams, Carter, and Harrison, this study aims to significantly contribute to this developing field. This paper aims to close a large research gap by examining the intricate patterns of development time use in cross-platform applications (Ruiz 2015).

Analysing Development Time of Electronic Product Price Comparison Applications on Android and Web Platforms

INTRODUCTION

- Stay ahead with Pricewise's prompt notifications on exclusive deals and discounts across various platforms, guaranteeing users seize every opportunity to save money.
- Pricewise revolutionizes electronic product price comparison across major platforms such as Amazon, Flipkart, Snapdeal, and eBay, ensuring users can easily assess real-time data to make well-informed purchasing decisions.
- Pricewise caters to individual preferences by delivering customized insights for each platform, enabling users to uncover special promotions, lightning deals, and exclusive offers tailored to their specific shopping preferences.
- With its intuitive interface, Pricewise ensures a smooth navigation experience, allowing users to effortlessly compare prices, receive notifications, and discover valuable coupons, thereby enhancing their overall shopping journey.
- Pricewise enables users to track price trends and predict optimal times to make purchases, maximizing their savings potential.

MATERIALS AND METHODS

Development time for Android and Web application

```

graph LR
    A[Capture start time of the development process of the application] --> B[Fully involve in every phase of the development process]
    B --> C[Document the time spent on each development work]
    C --> D[Record the end time of the development process]
    D --> E[Calculate the total development time]
    E --> F[Engage thoroughly in every aspect of the evolving web application.]
    F --> G[Record the initial time prior to the user commencing.]
    G --> H[Allocate dedicated time for the development of the application.]
    H --> I[Record the conclusion time upon completion of the development phase.]
    I --> J[Determine the overall development duration of the web application.]
    J --> K[SPSS value for the Development time of the pricewise android and web application is noted]
  
```

RESULTS

Pricewise Android and Web application

Fig.1: The list Tablet products of Pricewise Web Application shown in this image



Fig.2: Price comparison of a product between different E-commerce platform and prices.

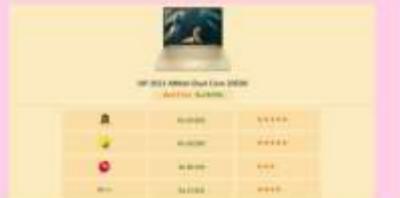
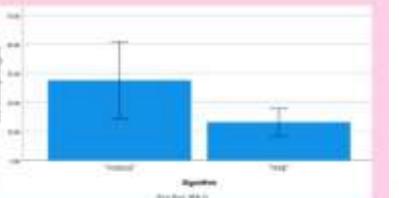


Fig.3: Mean Development time: Android Development (27.6300), Web Development (13.2200) Standard deviations: Android Development (6.63754), Web Development (2.33003).



DISCUSSION AND CONCLUSION

- Pricewise ensures seamless navigation with its intuitive interface, enhancing the browsing experience and making it effortless for users to find what they need.
- Pricewise simplifies the process of comparing prices and accessing exclusive offers across major e-commerce platforms. Users can effortlessly maximize their savings on electronic products with the platform's efficient approach.
- While Pricewise includes major e-commerce platforms like Amazon, Flipkart, Snapdeal, and eBay, it may not encompass smaller or niche retailers. This limitation could hinder users' ability to compare prices for specific products across a broader spectrum of sources.
- Pricewise's real-time updates and notifications are contingent upon internet connectivity. Users in areas with poor connectivity may experience delays or difficulties accessing the latest information, potentially impacting their overall shopping experience.
- Pricewise has the potential to expand its reach by integrating with additional e-commerce platforms. This strategic expansion would allow users to compare prices and access offers from a more extensive range of retailers, thereby augmenting the app's functionality and attracting a larger user base.

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Title Page:

Enhancing User Satisfaction in Cross-Platform Shopping: A Comprehensive Analysis of Electronic Product Price Comparison Applications on Android and Web Platforms

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Department of Computer Science and Engineering,
Saveetha School of Engineering,
Saveetha Institution of Medical and Technical Sciences,
Saveetha University, Chennai, Tamil Nadu, India, Pin: 602105.

ABSTRACT:

Aim: This study aims to assess and contrast user satisfaction levels with the Pricewise web application and Android platform, focusing on features facilitating price comparison. **Materials and Methods:** The study involved a thorough examination of both the Web and Android applications, with a substantial sample size ($N=10$) for each platform to ensure statistical reliability with 80% power. Features enabling real-time pricing comparison were the primary focus. **Result:** Users reported higher satisfaction levels with the Pricewise Web application compared to the Android platform. The Web application scored an average satisfaction rating of 59.6942%, while the Android application received an average rating of 24.7108%. Statistical analysis using a two-sample t-test indicated a significant difference between the platforms, favouring the Web application. **Conclusion:** The study concludes by emphasising the superior user satisfaction levels associated with the Pricewise Web application over its Android counterpart. These results affirm that the Web application provides consumers with a swift and efficient means to compare prices in real-time, thereby enhancing overall user experience.

Keywords:

Web Application, Android, User Experience, User Satisfaction, Price Comparison, Research

INTRODUCTION:

Improving customer satisfaction becomes critical in the ever-changing world of electrical price comparison apps ("Evaluation of User Satisfaction and Usability of a Mobile App for Smoking Cessation" 2019). This study examines user satisfaction on both Android and web platforms for four well-known applications: eBay, Amazon, Flipkart, and Snapdeal (Vinicius H. S. Durelli Federal University of São João del Rei, São João del Rei, Minas Gerais et al., n.d.). Utilising the foundational research of Adams, Carter, and Harrison, this study emphasises how crucial it is to maximise development efficiency in order to improve mobile shopping experiences ("Website," n.d.; Giovanni Grano University of Zurich, Switzerland et al., n.d.). The literature now in publication provides a strong basis by outlining methods to increase user satisfaction in cross-platform electronic product pricing comparison applications. By expanding on the ideas presented by Adams, Carter, and Harrison, this research seeks to significantly advance this developing field ("The Effect of Benefits Generated from Interacting with

Enhancing User Satisfaction in Cross-Platform Shopping: A Comprehensive Analysis of Electronic Product Price Comparison Applications on Android and Web Platforms

INTRODUCTION

- Explore Pricewise's swift notifications, ensuring users never miss out on exclusive deals and discounts across diverse platforms, enabling them to stay ahead and maximize their savings.
- Experience a transformation in electronic product price comparison with Pricewise across leading platforms like Amazon, Flipkart, Snapdeal, and eBay. Empowering users with real-time data, it can make informed purchasing decisions effortlessly.
- Tailored to individual tastes, Pricewise delivers personalized insights for each platform, unveiling tailored promotions, lightning deals, and exclusive offers, perfectly aligned with users' unique shopping preferences.
- With its user-friendly interface, Pricewise facilitates seamless navigation, empowering users to effortlessly compare prices, receive timely notifications, and uncover valuable coupons, thereby enriching their shopping journey.
- Stay in the know with Pricewise's real-time updates on prices, offers, and coupons. The intuitive interface ensures effortless navigation, enabling users to compare prices with ease, rearrange search results, and swiftly discover the best deals available.

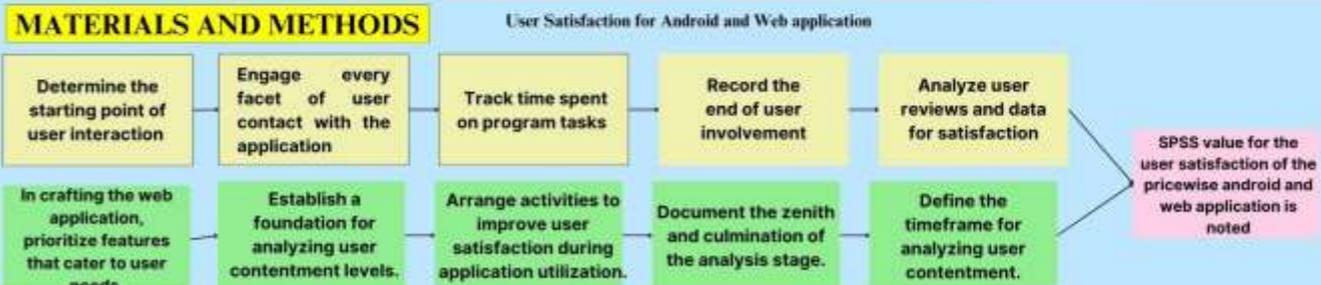
MATERIALS AND METHODS

RESULTS


Fig.1: The Notification page for the pricewise web application



Fig.2: The recent search page which contains the recently searched products

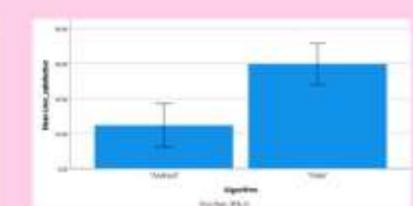


Fig.3: Mean User Satisfaction: Android Development (24.7108), Web Development (59.6942) Standard deviations: Android Development (6.14614), Web Development (5.87336).

DISCUSSION AND CONCLUSION

- Experience seamless navigation through Pricewise's intuitive interface, enhancing the browsing journey and ensuring users easily locate their desired items.
- Streamline the shopping experience with Pricewise, effortlessly comparing prices and accessing exclusive offers across leading e-commerce platforms. Users can maximize savings on electronic products with the platform's efficient approach.
- Although Pricewise covers major e-commerce giants like Amazon, Flipkart, Snapdeal, and eBay, it may overlook smaller or specialized retailers. This limitation could restrict the ability to compare prices for specific products across a wider range of sources.
- Stay updated with real-time updates and notifications from Pricewise, provided that there's internet connectivity. Users in areas with poor connectivity might encounter delays or difficulties accessing the latest information, potentially impacting the shopping experience.
- Unlock new possibilities with Pricewise by integrating with additional e-commerce platforms. This strategic move would enable users to compare prices and access offers from a broader array of retailers, enhancing functionality and attracting a larger user base.

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PRODUCT

Pricewise

TITLE: Pricewise -A Price Comparison App

- Pricewise is a groundbreaking web application designed to transform the landscape of electronic product shopping by offering a holistic approach to finding the best deals. At its heart, Pricewise combines advanced price comparison capabilities with real-time offer notifications, platform-specific insights, and a curated Coupons page, all aimed at elevating the consumer shopping experience. By aggregating data from leading e-commerce platforms such as Amazon, Flipkart, Snapdeal, and eBay, Pricewise provides users with immediate access to the most current prices, exclusive deals, and discounts, empowering them to make informed purchasing decisions with unparalleled speed and accuracy.

• Furthermore, Pricewise distinguishes itself through its dedication to user experience, featuring a straightforward and intuitive interface that facilitates effortless navigation through its extensive range of features. This commitment to simplicity and efficiency underscores Pricewise's mission to serve as a comprehensive shopping companion, ensuring that users can confidently navigate the complexities of online retail to achieve maximum savings and satisfaction. In essence, Pricewise redefines the concept of smart shopping, offering a sophisticated yet accessible solution for those seeking to optimise their electronic purchases in the digital age.

• THE FIELD OF INVENTION

Pricewise revolutionises e-commerce by offering real-time price comparisons, instant offer notifications, and a dedicated Coupons page for electronic products, aggregating data from top platforms like Amazon, Flipkart, Snapdeal, and eBay. Its innovations include a smart price comparison engine and a user-friendly interface, aiming to simplify and enhance the online shopping experience, ultimately driving consumer savings and efficiency

• BACKGROUND OF THE INVENTION

- The advent of the internet and the proliferation of e-commerce platforms have fundamentally altered the landscape of retail, particularly in the electronics sector.

- Consumers now have access to a vast array of products from around the world, often at competitive prices. Traditional methods of price comparison, such as manually checking prices across multiple websites, are time-consuming and inefficient. Moreover, many consumers lack the expertise or resources to keep track of exclusive offers, discounts, and coupons, leading to missed opportunities for savings. The invention of Pricewise marks a significant advancement in the field of e-commerce, specifically targeting the inefficiencies and limitations of traditional price comparison methods. By automating the process of finding the best deals and keeping users informed about the latest offers, Pricewise aims to empower consumers with the knowledge.

• Specifications

- Single User Access: Pricewise ensures a secure and personalised experience for each user, maintaining privacy and data integrity throughout the platform.
- Real-Time Price Comparison: Automatically fetches and compares prices of electronic products across Amazon, Flipkart, Snapdeal, and eBay in real time. Allows users to select specific products or categories for comparison.
- Instant Offer Notifications: Sends push notifications to users about exclusive deals, discounts, and promotions across all supported platforms. Users can customise notification settings based on preferred categories or brands.
- Dedicated Coupons Page: Provides a curated list of free coupons from various e-commerce platforms.

- Users can filter coupons by category, brand, or discount percentage. Direct links to apply coupons during checkout.

- User-Friendly Interface: Intuitive design with easy navigation between price comparisons, offer notifications, and the Coupons page. Responsive design for seamless experience across desktop and mobile devices.

Pricewise

Description

- Pricewise, your go-to solution for intelligently navigating the world of electronic shopping. This cutting-edge web and mobile application revolutionises the way you find the best deals by offering real-time price comparisons, instant notifications of exclusive offers, and a dedicated Coupons page across major e-commerce platforms. With Pricewise, you're always in the know, ensuring you don't miss out on any savings opportunity. From comparing prices on Amazon to applying coupons on eBay, Pricewise brings all your shopping needs under one roof. Enjoy a personalised shopping experience with our intuitive interface, manage your preferences effortlessly, and let Pricewise guide you towards smarter, more cost-effective purchases.

• Functionality:

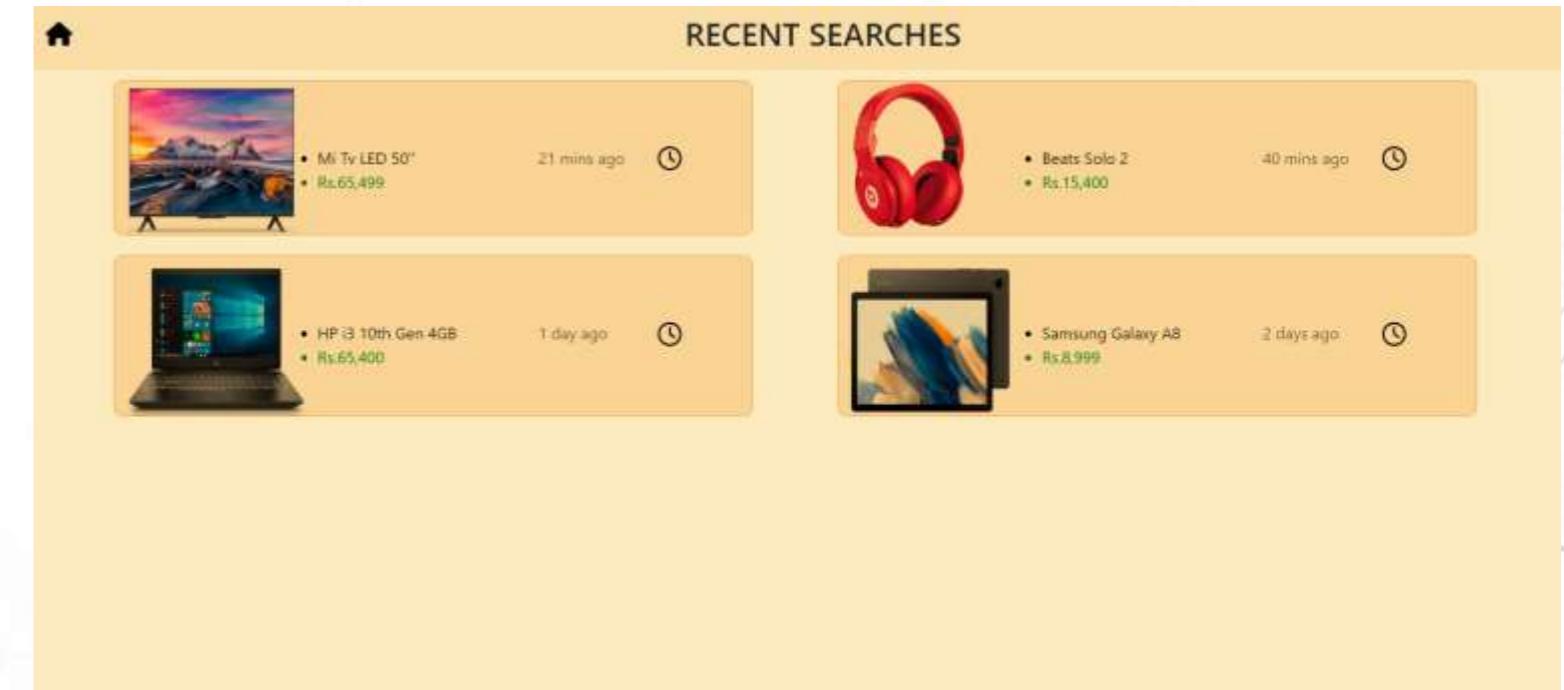
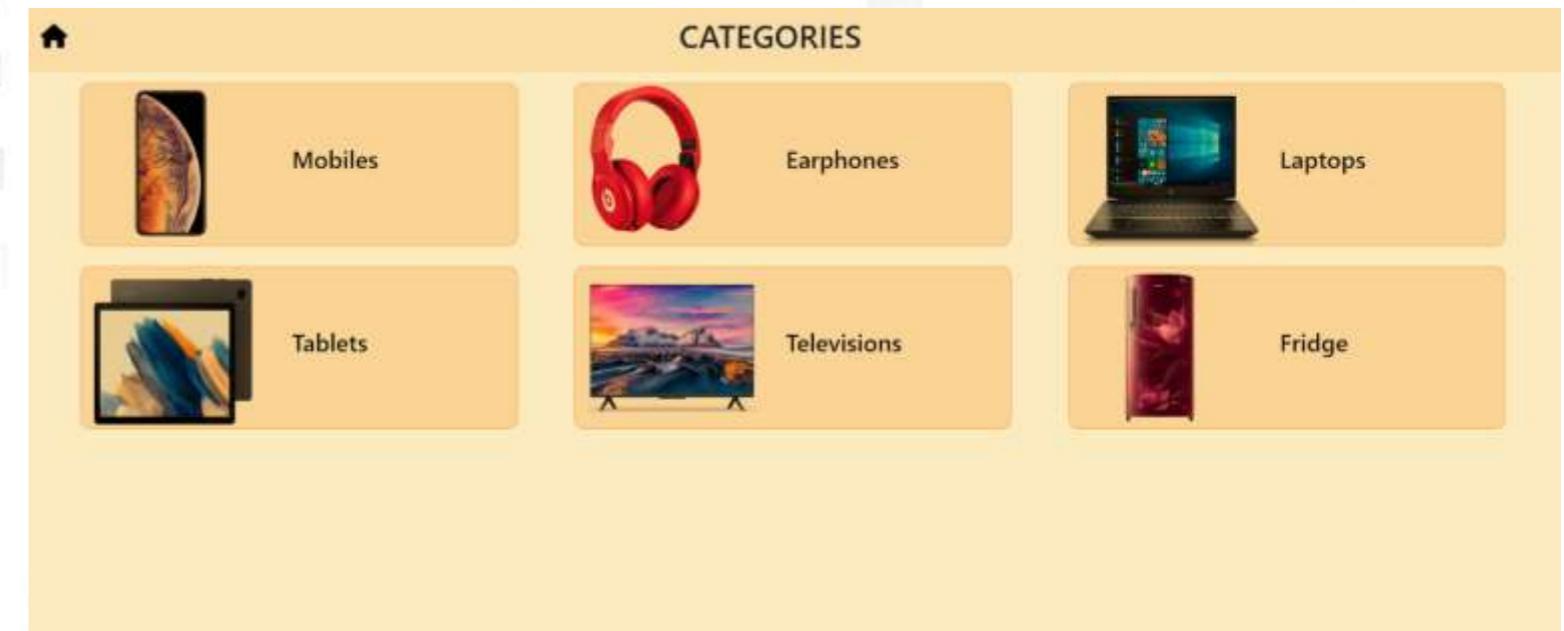
- Pricewise is engineered to transform the online shopping experience for electronic products by integrating a variety of functionalities that cater to users' needs for price comparison, deal discovery, and maximising savings. At its core, it offers real-time price comparisons across leading e-commerce platforms, ensuring users always have the most current pricing information. Instant notifications about exclusive deals and discounts keep users informed and ready to take advantage of savings opportunities. A dedicated Coupons page aggregates free coupons from various sources, allowing users to easily apply discounts during checkout. Platform-specific insights help users identify unique deals available on each platform, tailoring their shopping strategy for optimal savings.

- User profiles and preferences enable personalised recommendations, making the shopping journey more efficient and enjoyable. Advanced search and filter options facilitate easy discovery of products, complemented by a user-friendly interface for seamless navigation across devices. Robust security measures ensure a safe shopping environment, with customer support readily available to assist with any queries or issues. Pricewise is committed to continuous improvement, regularly updating its software and incorporating user feedback to refine its offerings, positioning itself as an essential tool for savvy consumers looking to elevate their shopping experience.

• We Claim

- CLAIM: Maximise Savings: Pricewise helps you save more by providing real-time price comparisons and instant notifications of exclusive offers across top e-commerce platforms.
- CLAIM: Stay Informed: Never miss a deal again with our automatic price checks and timely alerts, ensuring you're always aware of the latest discounts and promotions.
- CLAIM: Convenient Coupons: Access a curated collection of coupons directly through our app, making it easy to apply discounts during checkout and save on your purchases.
- CLAIM: Personalised Experience: Customise your shopping experience with Pricewise by managing your preferences and receiving personalised recommendations based on your interests.

Pricewise App Images





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NATIONAL CONFERENCE ON RECENT TRENDS IN ANALYTICS AND COMPUTING TECHNOLOGIES (RTACT 2024)

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has presented a paper titled

“Game testing automation framework for game development studios”

from Saveetha School Of Engineering

in the **“National Conference On Recent Trends In Analytics And Computing Technologies (RTACT 2024) held on 15th March 2024”** Organized by Department of AR and VR, Institute of CSE, SIMATS Engineering, SIMATS, Chennai - 602105.

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WORKSHOPS



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This certificate is presented to

Mr / Ms A. CHARAN

3rd YEAR CSE

Has actively participated in the One day workshop on
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Department of Medical Biotechnology and Integrative Physiology,
SIMATS School of Engineering,
SIMATS, Thandalam, Chennai - 602 105, Tamil Nadu, India.

14.10.2022

Date



B. Ramesh

Principal
Dr. B. Ramesh



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OF COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

CHARAN A

for completing a 1-Day workshop conducted by
OfficeMaster on PowerBI

June 17th, 2023



Aditya Goenka
Co - Founder



Sharad Anand
Instructor



TECHNICAL EVENTS



CERTIFICATE OF APPRECIATION



PROUDLY PRESENTED TO

Charan A

For his/her participation in FUTSAL Event
of Hackerz'22 held at Chennai Institute of Technology, Kundrathur, Chennai.
We appreciate you, marking your presence in this grand event.

16th May, 2022

DATE



A handwritten signature in black ink, appearing to read "Dr. S. Praveen".

SIGNATURE

NON TECHNICAL EVENTS



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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This is to certify that Mr./Ms. charan . A of Sareetha school of Engineering has participated/won _____ place in the event solo singing, as part of the **26th National Level Symposium - SPANGLES'23**, organised by **Society of Electrical and Electronics Engineers(SEEE) of Easwari Engineering College** on April 15, 2023.

Dr.P.Marish Kumar
Faculty Coordinator

Dr.E.Kaliappan
Head of Department(EEE)

Dr.R.S.Kumar
Principal



SOCIAL ACTIVITIES

Planting Sapling





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