Department _Information Technology_ Engineering

PRACTICAL / TERM - WORK REPORT

Subject _Web Technology Lab._

Name of the Student _Sonawane Vaishnavi Deepak._

Class _TY. IT_   Division _B_

Batch No. _T3_   Roll No. _129_

Name of the Experiment / Title of Term Work _Case Study on website_
evaluation of planning.

Experiment / Term - Work No. : _01_

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(Name of the Teacher)

Remarks _____

_4 + 4 + 2 = 10_

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Signature _____ 2/2/26 _____   Date _2/2/26_

SANJIVANI COLLEGE OF ENGIEERING, KOPARGAON

(An autonomous Institute affiliated to SPPU Pune)

Department of Information Technology

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Sem-2

Web Technology Laboratory (PCIT311)

Report on: Case Study on Website Evaluation and Planning

Submitted by:
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Class / Year: TY B.Tech

Assignment No - 1

Case Study on Website Evaluation and Planning

Introduction :

In the digital era, websites are essential for communication and services, and proper planning is crucial to ensure good usability and performance. This assignment uses a case study approach to analyze existing websites, identify their strengths and weaknesses, and evaluate their design quality. The objective is to study multiple websites from different domains to understand good design practices and common issues in website development.

Objectives :

- To understand the importance of proper website planning before development.
- To analyze real-world websites from different domains.
- To identify the strengths and weaknesses of website design.
- To evaluate websites based on usability, design, content, and performance.
- To apply these learnings while developing future web projects.

1. National Portal of India

Website URL: https://www.india.gov.in/

Purpose of the Website

India.gov.in is the official national portal of the Government of India. It provides citizens with access to government information, schemes, services, and policies through a centralized online platform.

Domain

- Government
- Public Services

Website Summary

- Centralized government information portal
- Provides authentic and official content
- Connects citizens to government services
- Used by students, researchers, and public

Things Liked in the Website

- Authentic and official information

- Central access to multiple services
- Useful for schemes and policies
- Reliable source for government data
- Multilingual support

Things Disliked in the Website

- Outdated UI design
- Confusing navigation structure
- Slow loading at times
- Too many links on single pages
- Not mobile-friendly in some sections

Lighthouse Evaluation

- Performance – 29
- Accessibility – 78
- Best Practices – 79
- SEO – 100

Overall Evaluation: The website successfully delivers official and reliable government information but suffers from outdated interface design and navigation complexity. Modern UI improvements and better mobile optimization would significantly enhance usability for citizens.

2. TryHackMe

Website URL: https://tryhackme.com/

Purpose of the Website

TryHackMe is an online learning platform designed to teach cybersecurity concepts through hands-on practice. Its main objective is to bridge the gap between theoretical knowledge and real-world application by providing interactive labs, virtual machines, and simulated hacking environments.

Domain

- Cybersecurity Education
- Ethical Hacking
- Online Learning Platform

Website Summary

- Skill-oriented cybersecurity training platform

- Focuses on learning by doing rather than theory
- Provides structured learning paths
- Suitable for beginners to professionals
- Used globally by cybersecurity learners

Things Liked in the Website

- Hands-on labs improve practical understanding
- Gamified learning with points, badges, and streaks
- Well-structured beginner to advanced learning paths
- Real-world scenarios improve industry readiness
- Modern, clean, and focused user interface
- No need for complex setup to start learning

Things Disliked in the Website

- Advanced content requires paid subscription
- Steep learning curve for absolute beginners
- Requires good internet connectivity
- Some labs need higher system performance
- Limited free access compared to premium content

Lighthouse Evaluation

- Performance – 11
- Accessibility – 87
- Best Practices – 57
- SEO – 100

Overall Evaluation: Good

3. Times Of India

Website URL: https://timesofindia.indiatimes.com/

Purpose of the Website

The Times of India website is a digital news platform that provides national and international news related to politics, sports, business, entertainment, technology, and current affairs. Its purpose is to keep readers updated with real-time information and act as an online extension of the printed newspaper.

Domain

- News and Media

- Digital Journalism

Website Summary

- High-traffic digital news portal
- Provides text, image, and video news
- Covers regional, national, and global news
- Designed for frequent content updates

Things Liked in the Website

- Wide coverage of news topics
- Fast and frequent news updates
- Trusted and well-known brand in India
- Regional and international news available
- Suitable for competitive exam preparation

Things Disliked in the Website

- Excessive advertisements
- Slow page loading due to ads
- Sensational headlines reduce credibility
- Cluttered layout affects readability
- Distracting pop-ups and banners

Lighthouse Evaluation

- Performance – 58
- Accessibility – 83
- Best Practices – 54
- SEO – 85

Overall Evaluation

The website is content-rich and informative but requires UI and performance improvements, especially for mobile users.

4. Nykaa

Website URL: https://www.nykaa.com/

Purpose of the Website

Nykaa is an e-commerce platform focused on selling beauty, skincare, wellness, and cosmetic products online. Its goal is to provide customers with access to genuine beauty brands while ensuring product authenticity and quality.

Domain

- E-commerce
- Beauty and Wellness

Website Summary

- Specialized beauty and wellness marketplace
- Combines shopping with beauty content
- Offers reviews, tutorials, and recommendations
- Trusted platform for authentic products

Things Liked in the Website

- Clean and attractive UI design
- Detailed product descriptions
- Customer reviews and ratings available
- Trusted and authentic brands
- Frequent discounts and offers
- Easy product filtering and search

Things Disliked in the Website

- Higher prices compared to competitors
- Website slows down during sales
- Heavy images affect loading speed
- Some features work better on app

Lighthouse Evaluation

- Performance – 31
- Accessibility – 79
- Best Practices – 61
- SEO – 100

Overall Evaluation: Nykaa provides a smooth online beauty shopping experience with reliable products and detailed descriptions. However, performance drops during sales and slightly higher pricing compared to competitors can impact user satisfaction.

5. Quora

Website URL: https://www.quora.com/

Purpose of the Website

Quora is a question-and-answer platform that allows users to ask questions and share knowledge based on personal experience and expertise across a wide range of topics.

Domain

- Knowledge Sharing
- Social Media

Website Summary

- Community-driven knowledge platform
- Encourages discussion and opinions
- Covers academic and real-life topics
- Global user participation

Things Liked in the Website

- Large variety of questions and answers
- Real-world experiences shared
- Helpful for opinions and explanations
- Easy to ask and answer questions
- Community interaction

Things Disliked in the Website

- Feed overload causes confusion
- Too many irrelevant notifications
- Inconsistent answer quality
- Presence of biased opinions
- Difficult to verify accuracy

Lighthouse Evaluation

- Performance – 27
- Accessibility – 72
- Best Practices – 79
- SEO – 85

Overall Evaluation: Quora offers a vast knowledge-sharing platform where users can find opinions and explanations on almost any topic. However, inconsistent answer quality and excessive feed notifications reduce overall user experience.

6. Redbus

Website URL: https://www.redbus.in/

Purpose of the Website

RedBus is an online ticket booking platform that allows users to book bus tickets, check routes, timings, and seat availability from multiple operators in one place.

Domain

- Online Travel
- Ticket Booking

Website Summary

- Centralized bus ticket booking platform
- Aggregates multiple bus operators
- Supports digital payments
- Saves time compared to offline booking

Things Liked in the Website

- Simple and user-friendly booking process
- Multiple payment options
- Seat selection feature
- Useful filters for bus selection
- Time-saving and convenient

Things Disliked in the Website

- Slow during peak travel seasons
- Website performance weaker than app
- Occasional payment delays
- Customer support response can be slow

Lighthouse Evaluation

- Performance – 49
- Accessibility – 68
- Best Practices – 57
- SEO – 100

Overall Evaluation: RedBus simplifies bus ticket booking with convenient filters and payment options, making travel planning easier. However, website performance issues during peak seasons and weaker desktop experience compared to the app need improvement.

7. Buddy4Study

Website URL: https://www.buddy4study.com/

Purpose of Website

Buddy4Study is designed to help students discover and apply for scholarships, fellowships, and educational financial aid opportunities in India and abroad.

Domain

Education Technology (EdTech) / Scholarship & Financial Aid Platform

Things Liked in the Website

• Centralized database of verified scholarships

• Simple eligibility-based search filter

• Useful for students from underprivileged backgrounds

Things Disliked in the Website

• UI feels slightly outdated

• Search results can feel repetitive

• Some scholarship pages lack detailed explanations

Website Summary

Buddy4Study plays an important social role by reducing the information gap around scholarships. While the platform is extremely useful, improving UI consistency and content clarity would significantly enhance user trust and usability.

Lighthouse Evaluation

- Performance – 6
- Accessibility – 74
- Best Practices – 46
- SEO – 85

Overall Evaluation: Buddy4Study plays a valuable role in connecting students with scholarship opportunities. While highly useful, improvements in UI design and clearer scholarship information presentation would enhance user experience.

Case Study

Sr. No	Website URL	Purpose of website	Things liked in the website	Things disliked in the website	Overall evaluation of the website (Good/ Bad)
1.	https://www.india.gov.in/	To provide official government information, services, and schemes to Indian citizens.	Authentic and official information. Centralized access to government services. Useful for citizens and students	Outdated UI design. Navigation is confusing. Slow loading at times.	Good
2.	https://tryhackme.com/	To provide hands-on cybersecurity learning through interactive labs, challenges, and real-world hacking scenarios.	Practical, hands-on learning instead of just theory. Gamified approach keeps users engaged. Clear learning paths for beginners to advanced users.	Most advanced labs require a paid subscription. Can be overwhelming for absolute beginners.	Good
3.	https://timesofindia.indiatimes.com/	To provide national and international news, including politics, sports, entertainment, and current affairs.	Covers a wide range of topics Regular and fast news updates Popular and trusted news source in India.	Excessive advertisements disrupt reading experience Sensational headlines reduce content quality.	Good

4.	https://www.nykaa.com/	To sell beauty, skincare, and wellness products online with trusted brand authenticity.	Clean design with attractive products display. Detailed product descriptions and reviews. Offers genuine beauty brands.	Prices are sometimes higher than competitors. App and website can feel slow during sales.	Good
5.	https://www.quora.com/	To allow users to ask questions and share answers on various topics.	Large variety of real-world questions and experiences. Useful for opinions and explanations.	Navigation is confusing due to feed overload. Too many irrelevant notifications. Quality of answers is inconsistent.	Average
6.	https://www.redbus.in/	To book bus tickets online and check routes, timings, and seat availability.	Clean ticket booking flow. Multiple payment options. Useful filters.	Slow loading at times during peak travel seasons. App performs better than the website	Good
7.	https://www.buddy4study.com/	Helps students find scholarships and financial aid opportunities.	Centralized scholarship database, eligibility filters, useful for students.	Slightly outdated UI, repetitive search results, limited details sometimes.	Average

Conclusion :

This case study highlights the importance of proper planning and analysis before developing a website. By evaluating real-world websites from different domains, it becomes clear that good usability, clear navigation, responsive design, and optimized performance are essential for a positive user experience. The study also reveals common design and performance issues that can negatively affect users if not addressed early.