

Mid-Term Report On

Good Notes

Website for Notes and Reference books



Submitted to

Department of Computer Science and Engineering
Nepal Engineering College

In Partial Fulfillment of the
Requirements for the Degree of B.E. in Computer

Submitted By:

Kishor Upadhyaya (021-332)

Aayush Koirala (021-304)

Date: 24/11/2023

Abstract

The increasing number of students and colleges has led to a significant concern regarding the wastage of old college materials. It is depressing to see priceless textbooks, notes, and educational resources thrown away or left unused, creating waste in the environment and missing out on financial savings potential. There will be a need for a solution that encourages sustainability and resource usage, as this problem will attract the attention of educators, students, and environmentalists alike. In order to solve this issue, we will create a website from where we can access notes and reference books that aims to bring students together and will offer a platform for the trade of used course materials. By addressing this urgent problem, we can decrease waste, lessen the financial load on students, and build a more sustainable and effective learning ecology. In the world of the online we will be using HTML, CSS and JavaScript as our programming language to design a website for the online notes. It will be compatible for both mobile and PC users.

In conclusion, the online website for used and unused college notes will serve as a beneficial platform for resource sharing, allowing students to save money, reduce waste, and support sustainable educational practices. The website will promote a collaborative learning environment and increase access to and affordability of education for all by linking students in need with those who will have surplus supplies.

Keywords: - Sustainability, Resource download, websites, notes, financial relief, Affordable learning, Student collaboration

Acknowledgement

The success of this project would not have been possible without the kind support and assistance of many individuals and organizations, and we are immensely blessed to receive support all along the duration of our project. We would like to extend our profound gratitude to each and every one of them.

We are highly indebted to Department of Computer Science and Engineering for constant motivation, as well as for providing the necessary support for the completion of this project. We are thankful and fortunate enough to get continuous support from our seniors of Department of Computer Science and Engineering which helped us incompletion of our project. We would also like to extend our regards to all the non-teaching staff of Department of Computer Science and Engineering for their timely support. Last but not the least, our thanks and appreciations also go to each and every one of our colleagues for their encouragement and support in developing the project.

List of figures

Figure 1:Home Page of Khan Academy	6
Figure 2:Homepage of Notes Villa	7
Figure 3:Sequence diagram of System	8
Figure 4 : Block Diagram of System	9
Figure 5 User Case Diagram.....	12
Figure 6 Class Diagram	13

Table of Contents

<i>Abstract</i>	<i>i</i>
<i>Acknowledgement</i>	<i>ii</i>
<i>List of figures</i>	<i>i</i>
Chapter 1	1
<i>Introduction</i>	<i>1</i>
1.1 Introduction and Background	1
1.2 Problem Statement	2
1.3 Objective	2
1.3.1 Primary objective	2
1.3.2 Secondary objective	2
1.4 Aims	3
1.5 Motivation	4
1.6 Scope	5
Chapter 2	6
<i>Literature Review</i>	<i>6</i>
2.1 Khan Academy	6
2.2 Notes Villa	7
Chapter 3	8
<i>System Design</i>	<i>8</i>
3.1 Block Diagram of system	9
3.2 Software used	10
3.3 Hardware Used	11
3.4 User case Diagram	11
3.5 Class Diagram	13
Chapter 4	14
<i>Implementation and Discussion</i>	<i>14</i>
4.1 Task Completed	14
4.2 Output Obtained	14

4.3 Task Remanning	14
<i>Conclusion</i>	15
Reference	16
APPENDICES	17

Chapter 1

Introduction

1.1 Introduction and Background

A solution that allows for the exchange of used educational materials is required since the high cost of college textbooks has become a considerable financial burden for students. It is getting more and harder for students to afford the necessary resources for their classes as the cost of new textbooks has skyrocketed and surpassed inflation rates. As a result, many students resort to borrowing from friends, relying on library copies, or foregoing textbooks altogether, compromising their academic success. The creation of a static online website intended particularly for downloading notes and reference books. Students will be able to download textbooks, notes, and other educational resources through the creation of an online website, easing financial burden and encouraging resource reuse. In order to provide students with a seamless and reliable experience, the project also focuses user-friendly design and strong security measures. The website's overall goals include easing financial strains, promoting sustainability, and creating a cooperative academic community.

1.2 Problem Statement

- Loss of time
- Difficulty on searching the required books and guides
- Lack of proper management
- Non-portability
- Expensive
- Difficulty on finding handwritten notes

1.3 Objective

Our website is intended for the following objectives

1.3.1 Primary objective

- Facilitate the efficient downloading of college materials by providing a centralized platform.
- Ensure a secure and reliable platform for downloading and taking reference from both the teacher and the student.

1.3.2 Secondary objective

- Enhance convenience and user experience by providing a user-friendly interface that simplifies the listing, searching, and downloading processes.
- Foster a sense of community and knowledge sharing among students, encouraging active participation in the exchange of resources.
- Promote sustainability and reduce waste by encouraging the reuse of college materials, contributing to environmental conservation.
- Improve accessibility to college materials by offering a wide range of subjects, courses, and editions, catering to diverse student needs

1.4 Aims

- Create a user-friendly platform for freely downloading and exchanging college materials.
- Build trust and transparency among users during the process of sharing notes and materials.
- Enhance affordability and accessibility to a wide range of free resources for students.
- Promote sustainability by encouraging the reuse of old college materials without any monetary transactions.
- Cultivate an active community of students and contributors dedicated to freely sharing college materials.

1.5 Motivation

- Addressing a frequent problem of graduate student's college materials.
- Increasing accessibility for students by creating a website where books and other college supplies can be downloaded for free, hence reducing financial pressure.
- Promoting environmental awareness by encouraging material reuse to cut down on waste and the negative effects on the environment.
- A collaborative platform where students may share materials and work together on academic projects would promote knowledge sharing.
- Process streamlining: Creating a user-friendly platform to make uploading and downloading the notes easily.
- Enhancing accessibility involves making a variety of resources readily available to students for their academic requirements.
- Giving students access to pertinent materials that support their academic performance and growth is one way to support academic progress.

1.6 Scope

- For college students, our website provides free and convenient access to resources, notes, and reference materials.
- Students can browse and download resources that seniors use and share.
- By doing away with the need to frequently visit bookstores, libraries, or ask elderly people for old notes, it saves time.
- Due to the fact that all materials are free, the platform is economical.
- A community of collaborative learners might be formed as a result of students contributing their own study materials and notes.
- The intuitive layout makes it simple to navigate and filter search results.

2.2 Notes Villa

An online resource called Note Villa provides extensive study tools for college students. It provides well-organized study materials, lecture summaries, and notes. Easy searching and access to subject-specific materials are made possible by the user-friendly interface. Students can add their own notes, building a community of cooperation but will restrict from uploading notes. There are also extra materials like practice tests and flashcards. Note Villa offers a consolidated location for dependable study resources, saving students time and effort. [2]

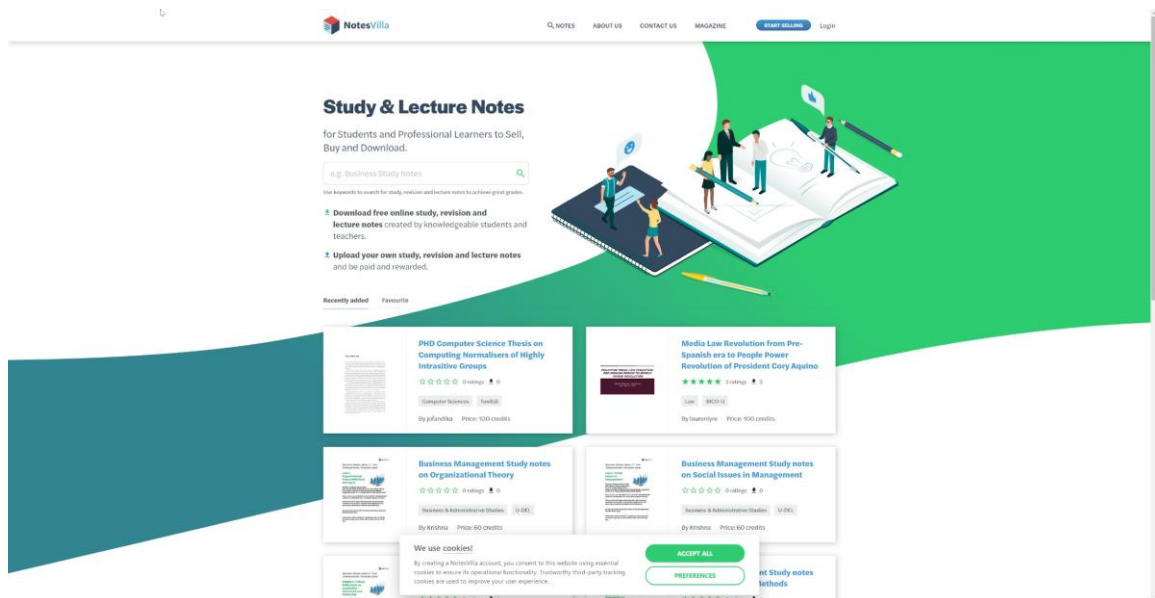


Figure 2:Homepage of Notes Villa

Chapter 3

System Design

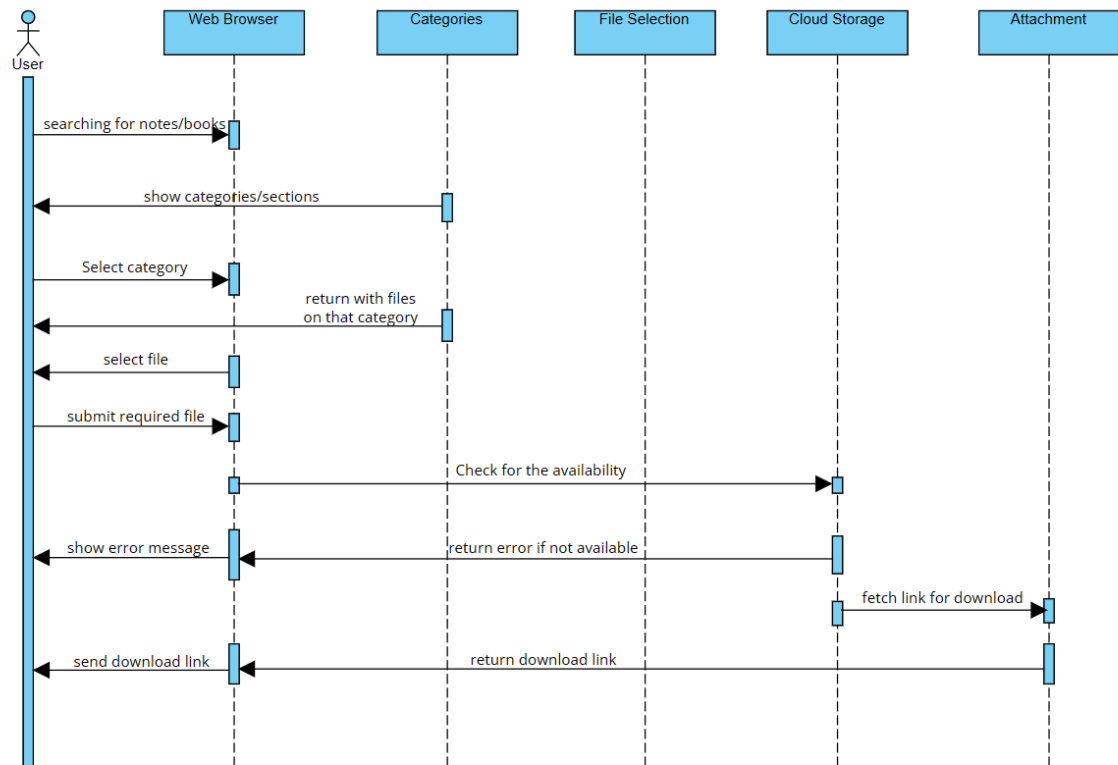


Figure 3:Sequence diagram of System

Here this sequence diagram shows how a user interact with the website using a browser

At first the user enters the website and search for the required notes and books the browser returns with the categories like semester, subject, faculty etc. Then the user is required to select the category then the browser responds by displaying all the files are notes in that category. Then the user is required to select the file which is then submitted to the browser. then the browser checks the availability of the selected file and if the file is available it responds with the file link from the cloud server and if the selected item is not available then it returns with error message to the user.

3.1 Block Diagram of system

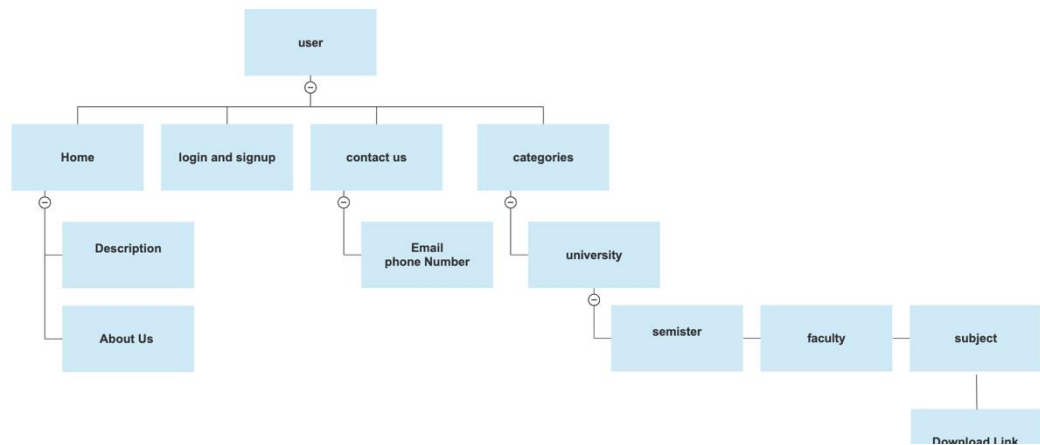


Figure 4 : Block Diagram of System

This shows the general interface of the website it shows how system is designed and how user can interact with the website system.

3.2 Software used

Our website is written completely in HTML, CSS and JavaScript for front end and My SQL is used for database, so the main software required to use the website is a web browser. It is available in both PC and mobile phone so it can be both used from both devices, some of the renowned web browsers are

- Opera
- Google Chrome
- Firefox
- Microsoft Edge, etc.

Operating System

The operating system used for the project is either Windows, Linux, Android, etc.

Frontend Language

The required frontend languages are HTML, CSS and JavaScript.

NodeJS

It is cross platform and open-source runtime environment for executing JS code. It is used for backend services to build APIs (Application programming interfaces). It is used by large production companies such as PayPal, Netflix.it also provides ecosystem of open-source libraries.

Database

My SQL.

3.3 Hardware Used

The hardware component required for the website to be functional is a computer laptop or a mobile device. The processor, RAM and storage for running the website can be low because of the simple design and interface.

- **Basic system Requirements**
 - RAM – 4 Gb
 - Processor -intel i3
 - Hard disk

3.4 User case Diagram

To begin, users create a free account with Good Notes and customize their preferences, specifying subjects and topics. This allows the platform to curate a personalized experience, highlighting relevant materials for each user. Once logged in, users can initiate their search by entering keywords or browsing categories. The advanced search function allows for further refinement using filters such as semester, subject, and date the note is written. Good Notes promises a seamless experience by offering various download options, including direct download and cloud storage integration. This ensures convenient access to downloaded materials across multiple devices.

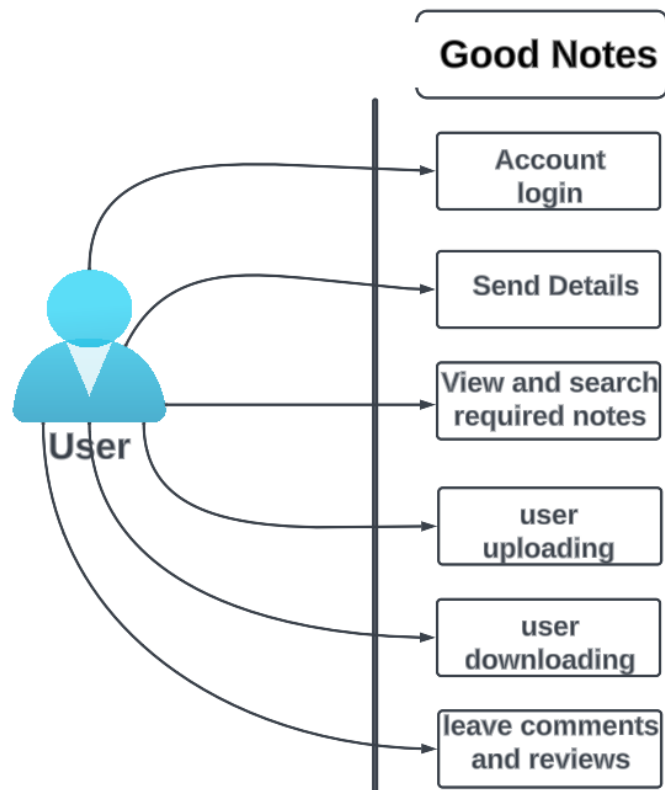


Figure 5 User Case Diagram

3.5 Class Diagram

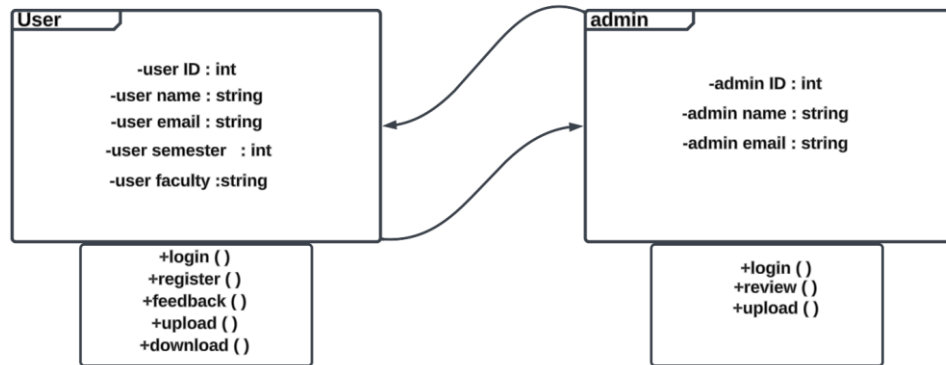


Figure 6 Class Diagram

Chapter 4

Implementation and Discussion

Our website (Good Notes) is designed to be user friendly and reliable so we want the interface of our website to be simple and easy to use. Good Notes runs on any browser and device and easily accessible.

4.1 Task Completed

In the website, user can enter their details such as their name, email, address to register in the website. Later, user can use the same details to get logged in. After they are logged in user can access the notes and books of PU university.

4.2 Output Obtained

- Basic interface of the website is designed.
- User can download the notes from the website.
- User can leave reviews and comments.

4.3 Task Remanning

- Backend of the website is being worked on.
- User upload function will be implemented.
- Updating the website interface.

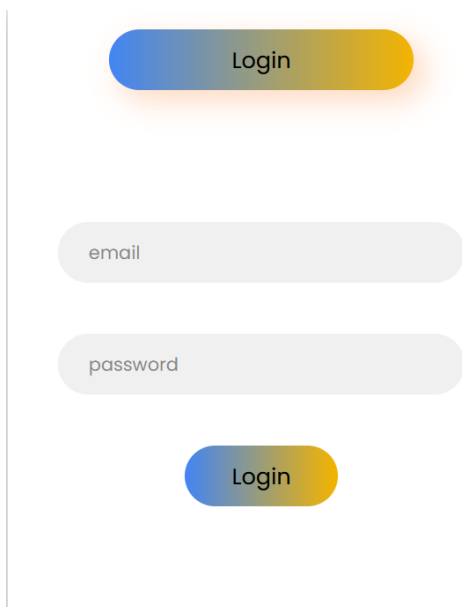
Conclusion

In conclusion, the website proposal that concentrates on notes and reference books for college students is a useful tool. The difficulties students encounter in locating necessary materials are addressed by the central platform it offers. The concept offers students greater convenience while saving them time and money. It is simple to navigate because to the user-friendly interface and search capabilities. The presence of current resources is guaranteed via routine updates. Overall, the proposal encourages learning, supports student achievement in the classroom, and gives students more agency.

Reference

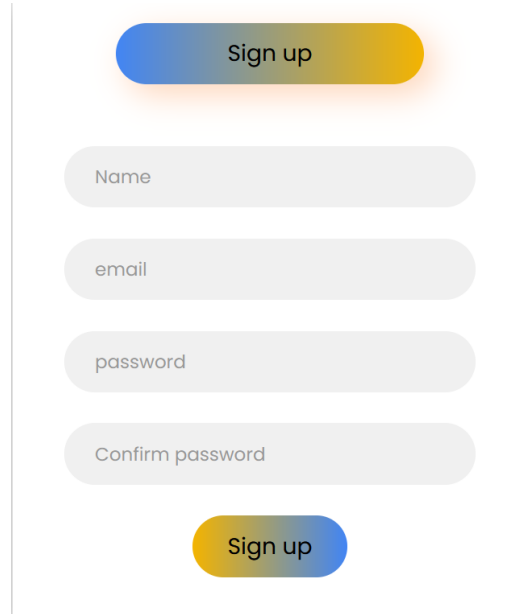
- [1] "Khan Academy," 2023. [Online]. Available: khanacademy.org.
- [2] "Notes Villa," 2023. [Online]. Available: notesvilla.com.

APPENDICES



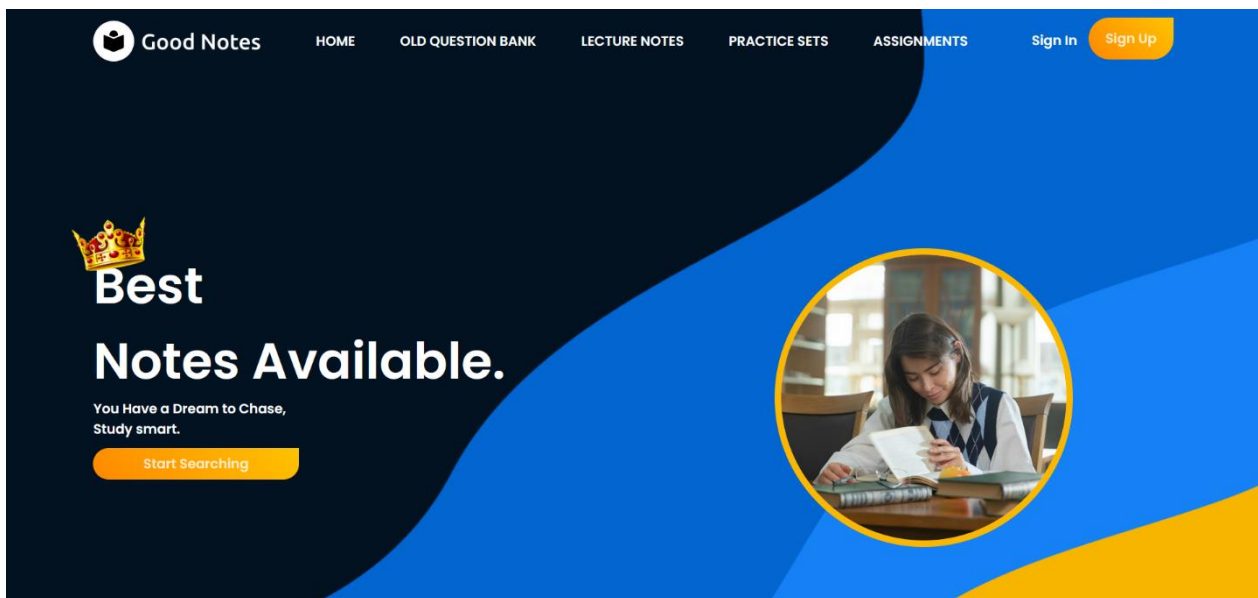
A login interface mockup. At the top is a blue and yellow gradient button labeled "Login". Below it are three light gray rounded rectangular input fields labeled "email", "password", and "password". At the bottom is another blue and yellow gradient button labeled "Login".

Login interface



A sign up interface mockup. At the top is a blue and yellow gradient button labeled "Sign up". Below it are four light gray rounded rectangular input fields labeled "Name", "email", "password", and "Confirm password". At the bottom is a blue and yellow gradient button labeled "Sign up".

Sign up interface



Home page interface



Good Notes

About Us

Making learning accessible and long-lasting is the straightforward goal of GoodNotes. Our commitment is in offering a platform that enables students to openly access the educational resources, such as notes and textbooks. Our goal is to lessen students' financial burdens while encouraging a reuse and sharing of resources culture. To provide a seamless and reliable experience for every Teacher and student, we place a high priority on user-friendly design and strong security measures. Ultimately, we want to foster a collaborative academic community, reduce financial burdens, and promote sustainability by reusing resources. Come along with us at GoodNotes as we transform education. We appreciate you joining us on this path to more environmentally responsible and accessible education.

Weekly Updates

Reliable

User Friendly

About us interface