



ST6012CEM User Experience Design

Individual Case Study

Tutor Finder -Share Your Passion



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Introduction

It is still quite difficult to get quality education and skill-based training in Nepal, particularly in places where local relationships and informal networks are the main source of tutors. This frequently results in issues between teachers and students, making it more difficult for both to receive the support they require for their professional and academic development. This demand is met by Tutor Finder, a service that links students with certified tutors throughout Nepal. It supports a broad range of disciplines and abilities, from high-level to school-level tutoring. Students may easily locate, communicate with, and schedule a local home tutor or an online instructor from a different location using the platform. The MERN stack MongoDB, Express, React, and Node.js was used to create Tutor Finder. It can expand to meet your demands and is quick and secure. React powers the interactive front end, while Node.js and Express.js manage the backend, which is responsible for handling the server logic. Tutor profiles, student data, and session reservations can all be stored in MongoDB. Tutors can be sorted by price, location, availability, subject, and mode (online or offline). Profiles provide information about tutors, assisting users in making informed decisions. Tutors can manage their contact list, profile data, and session requests via their dashboard. High quality and platform security are ensured via an integrated admin panel. To maintain openness and trust, administrators can monitor user activity, verify a tutor's credentials, and respond to concerns. Tutor Finder's user-friendly interface and robust technology make it easier for more people to receive an education. It helps students obtain the support they need and gives tutors a chance to reach more individuals, which promotes equity in education and aids in the skill development of Nepalis.

**Tutor Finder bridges Nepal's education gap,
connecting students with qualified tutors.**

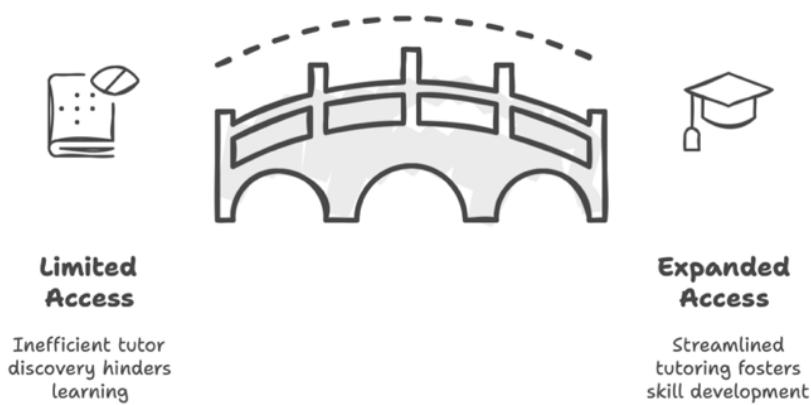


Figure 1: Introduction

Literature Review: Analysis of Existing Tutor-Finding Platforms in Nepal

The increasing demand for accessible and quality education in Nepal has led to the emergence of various digital platforms aimed at connecting students with qualified tutors. Among the prominent platforms are Prosikshya and Mero Tutor, each offering unique approaches to tutor-student matchmaking. This literature review provides a comparative analysis of these two platforms, highlighting their features, strengths, limitations, and implications for the development of Tutor Finder.

Prosikshya is a popular Nepali website that helps students discover subject-specific instructors at different levels of study. It was set up to help students and tutors in Nepal connect with each other. It offers both online and in-person tutoring. From a UI/UX point of view, Prosikshya's login process requires users to enter a password-protected account, which can make it hard for casual users to look for teachers or services. This is different from Tutor Finder, which has a public-facing directory that anybody may browse without logging in. This makes it easier for new users to get started. In terms of features, Prosikshya lets you browse by subject, has a built-in whiteboard for online classes, and has a clear cost structure (no commissions). But it doesn't have integrated processing or centralised scheduling, which makes user trips less smooth. Also, interactions are not actively watched, which makes quality assurance unreliable.

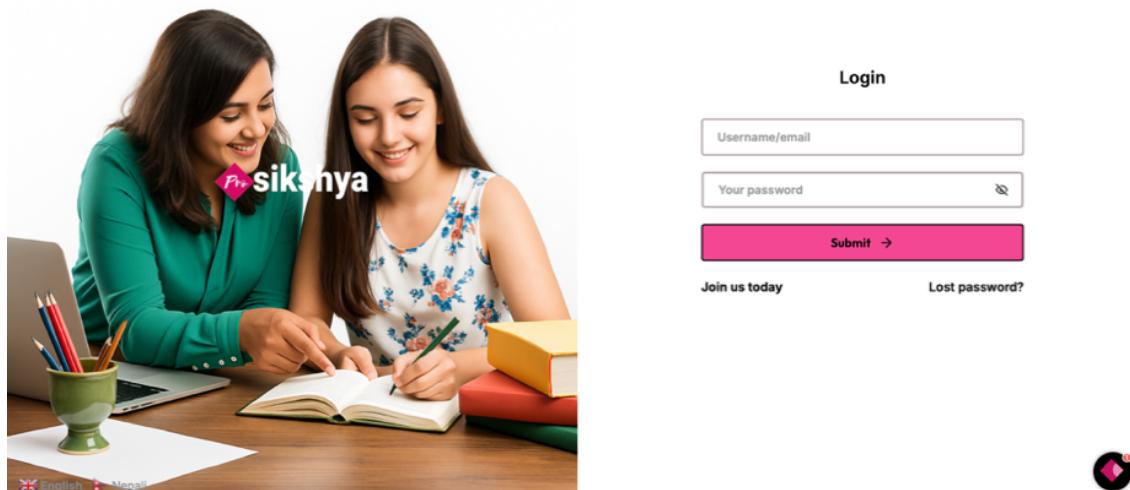


Figure 2: Prosikshya Login page

Mero Tutor (also known as Tutors Nepal) focuses primarily on home-based tutoring for school-level subjects and competitive exam preparation. Tutors can build customizable profiles and receive tutoring leads via website and WhatsApp. In terms of **user interface**, Mero Tutor lets users browse and contact without logging on, unlike Prosikshya. Subject filtering and tutor discovery are limited.

Tutor Finder has integrated payments, online teaching tools, and profile verification, however Mero Tutor does not. It also lacks a calendar or booking system, making coordination harder.

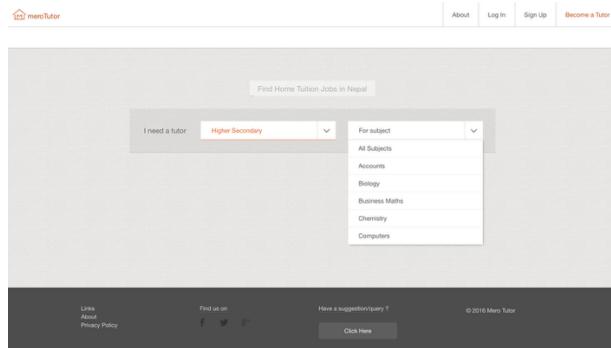


Figure 3 : MeroTutor Subjects Limitation

Comparison and Implications for Tutor Finder

Prosikshya and **Mero Tutor (Tutors Nepal)** both contribute meaningfully to Nepal's digital tutoring landscape, each emphasizing distinct strengths. **Prosikshya** stands out for its verified tutor base, broad subject offerings, and built-in online learning tools. In contrast, **Mero Tutor** prioritizes personalized, home-based learning and provides national exposure for tutors through direct assignment listings.

However, despite their contributions, both platforms face notable limitations from a system design and user experience perspective:

- **No Centralized Scheduling:** Session bookings rely heavily on manual coordination, which can result in delays or miscommunication.
- **Lack of Integrated Payment Systems:** Users and tutors handle transactions independently, reducing trust and creating potential friction.
- **Limited Monitoring & Feedback Mechanisms:** Without a built-in review or rating system, maintaining quality and accountability remains a challenge.

- **Fragmented User Interface:** Both platforms lack a cohesive and structured interface that supports intuitive navigation and efficient discovery.

Implications for Tutor Finder

The development of **Tutor Finder** provides a unique opportunity to address these limitations and offer a more robust, user-centric experience:

- Assistance for All Forms of Learning (Skills-Based + Academic)
Tutor Finder is not restricted to traditional education, in comparison to the other two platforms. It links students with teachers in a wide range of subjects.
- Integrated and Secure Payment Processing
Integrated payment features simplify the payment process for tutors and students alike while guaranteeing secure, transparent transactions that enhance trust.
- Enhanced Performance Monitoring and Profile Verification
Tutor Finder improves credibility, encourages quality, and upholds accountability by implementing a formal verification process, public tutor ratings, and session feedback.
- Simplified Public Discovery and UI/UX
Tutor Finder provides public tutor browsing with advanced filters and an easy-to-use interface based on Superprof, in contrast to Prosikshya's password-gated access or Mero Tutor's restricted filtering. This facilitates well-informed decision-making and reduces user contact.

PACT Analysis

People:

- **Students:** The primary users who are seeking tutors to help them in various subjects and skills. Students range from school children to adults looking to acquire new skills.
- **Tutors:** People sharing their skills and knowledge in a variety of fields, including math, science etc. They could be skilled individuals with specialised knowledge or professional educators.
- **Admins:** Administrators who run the platform, make sure everything runs smoothly, check out tutors, settle disputes, and keep users safe and happy.
- **Parents (in case of younger students):** Parents might be involved in selecting tutors for younger children or monitoring the tutoring process.

Activities:

- **Search and Discovery:** Students use the platform to search for tutors based on their subject needs, and location. Tutors also search for students based on subjects they want to teach.
- **Making a reservation and paying:** Students make reservations for sessions, and the platform handles payments safely. Tutors decide how much to charge.
- **Reviews:** After each session, students give tutors a rating and feedback that helps other students choose the right tutor.
- **Profile Management:** Students and tutors can both change their profiles to include their personal information, availability, subject preferences, and other information.
- **Administrative Oversight:** Admins keep an eye on what happens on the platform, check tutor profiles, handle complaints or disagreements, and make sure the platform stays safe and reliable.

Contexts:

- **Online and Offline Learning:** The platform supports both online video-based tutoring and in-person sessions, making learning flexible and accessible.
- **Geographical Variation:** The platform caters to users from both urban and rural areas, allowing students in remote locations to access tutors and vice versa.
- **Diverse Demographics:** The platform is designed to serve a wide range of users from various educational backgrounds, age groups, and skill levels. It includes learners of all ages (children to adults) and tutors with varied specializations.
- **Academic and Non-Academic Learning:** The platform supports a wide range of subjects from traditional academic subjects (Math, Science) to non-academic skills (Music, Dance, Language learning), creating a diverse educational environment.

Technologies:

- **Website Platform:** Developed using the **MERN stack** (MongoDB, Express.js, React.js, Node.js), the platform is optimized for desktop and web browsers, ensuring a smooth user experience.
- **Secure Payment Gateway:** Integrated payment system for safe and secure transactions, enabling students to pay for sessions online and tutors to track their earnings.
- **Security and Privacy Features:** Data encryption and secure login systems ensure the safety of personal information and payment details for both students and tutors.

- **Admin Dashboard:** A dashboard for admins to manage the platform's operations, such as user management, review tracking, tutor verification, and platform analytics.

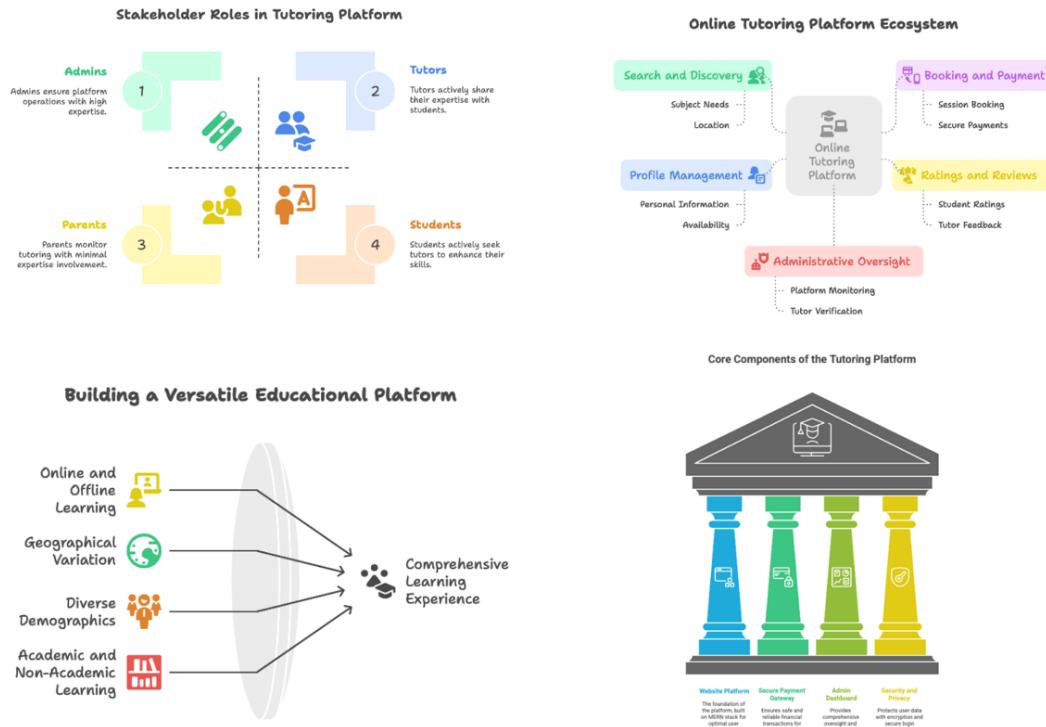


Figure 4: PACT Analysis

Requirement Analysis for Tutor Finder

Before developing Tutor Finder, a requirement analysis was done to understand user demands and system goals. The goal is to provide a simple system that helps students and teachers search, and collaborate.

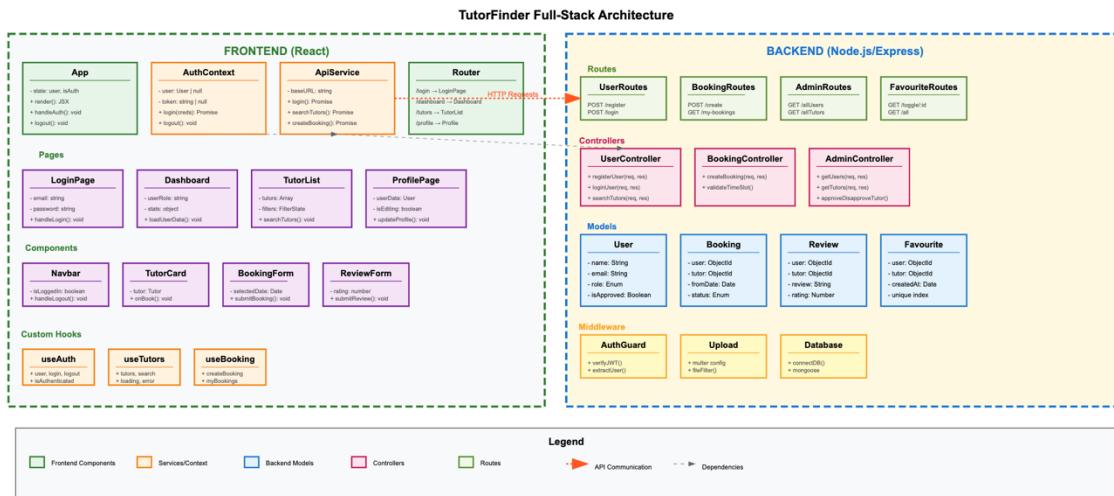
The top system needs were identified through informal research and contextual observation. This required examining Nepalese tutor and skill-sharing sites' capabilities, limitations, and user behaviour. Recurring issues like faulty booking systems, unverified tutors, insufficient filtering, and unsafe payment methods were a priority.

According to this survey, three main types of users are learners who wish to develop, instructors who give services, and platform administrators. Assumption-based personas helped us determine their aims and how they could influence platform design.

These requirements highlighted the following crucial system needs:

- Functional Requirements: Learner, instructor, and admin role-based registration, profile management, skill/tutor search with filters, scheduling, reviews, and payment integration. Administrators should have verification and moderation tools.
- Non-Functional Requirements: The system must be responsive and easy to use, scalable, secure, fast, and always up and running.
- User Requirements: Students should be able to identify, compare, and book teachers with a variety of talents. Instructors should be able to demonstrate and choose their own hours. Administrators should check profiles, monitor site activity, and handle complaints.

System Architecture



Architecture Pattern: MVC + Component-Based Frontend

Frontend: React Components → Context/Services → API Layer
 Backend: Routes → Controllers → Models → Database
 Communication: RESTful APIs with JWT Authentication

Figure 5: Class Diagram

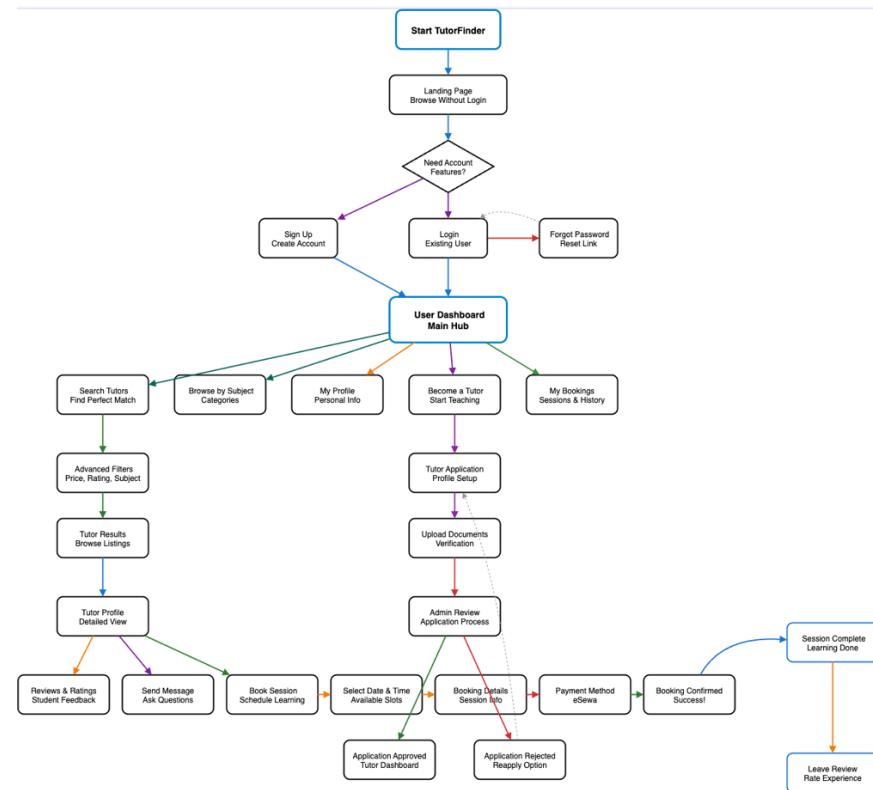


Figure 6: Userflow Diagram

Business Process Modeling (BPM)

Business Process Modelling (BPM) was a key component in the creation of the Tutor Finder platform since it helped organise the way users interact with the system at various phases. By outlining the interactions between learners, tutors, and administrators, BPM helps visualize system behavior, task flow, and user decisions in a logical and sequential manner. These models act as initial blueprints that direct the creation of consistent user experiences, effective workflows, and easy-to-navigate pathways. Key processes, such as tutor discovery, booking, feedback, and user registration, were represented by BPM diagrams like task-based pathways and user journey flows rather than just textual descriptions. These visuals make it easier to comprehend how the platform should work, guaranteeing that every feature satisfies user requirements and advances the more general goals of usability, accessibility, and trust.

Business Process Improvement (BPI), which is a complement to BPM, focusses on streamlining these workflows by locating errors, problems, and areas for improvement. A more thorough assessment of possible inefficiencies in areas like tutor verification, session scheduling, and search filtering is made possible by the application of BPI in this project through comparative analysis with well-known platforms like Superprof. Superprof, for instance, provides tutors with quick onboarding, but Tutor Finder adds a systematic verification system to guarantee authenticity and quality, which builds trust but necessitates a more efficient backend procedure. In a similar vein, the platform enhances discovery and personalisation by introducing multi-level filters (such as location, subject, teaching mode, and price) that go beyond conventional search techniques. These improvements were carefully incorporated into the system design after being found using BPI techniques. BPM and BPI work together to create a development process that is both structured and flexible. While BPI guarantees ongoing optimisation, BPM guarantees clarity in execution. This dual strategy is especially helpful in scalable systems like Tutor Finder, where user satisfaction is based on both the effectiveness and ease of use of each process in addition to core functionality. As a result, the platform is not only reliable in terms of functionality but also keeps improving to satisfy the demands of actual users. The result is a platform that is not only functionally sound but also continuously evolving to meet real-world user needs.

Tutor Finder Platform Development Funnel

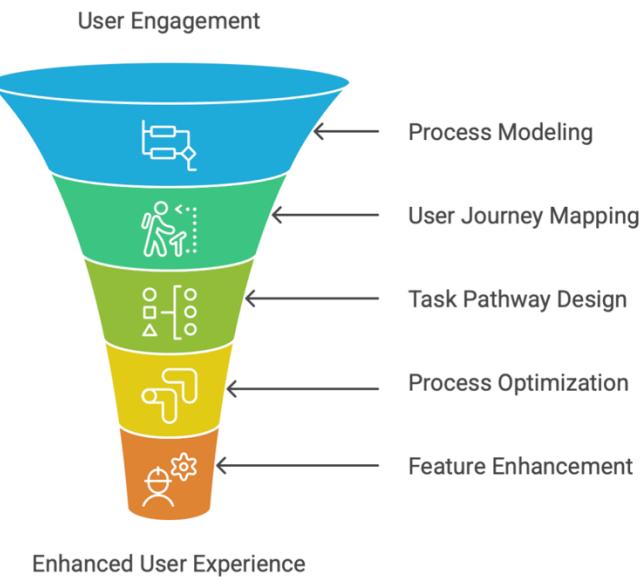


Figure 7:Tutor Finder Platform Development Funnel

Wizard of Oz (WoZ) in Tutor Finder Development

Early on in the Tutor Finder platform's development, the Wizard of Oz technique was used to model essential features before creating the real backend systems. As a result, it was possible to evaluate user experience and design effectiveness without implementing the full technical infrastructure. In the Tutor Finder project, the Wizard of Oz technique focused on simulating essential features like tutor matching, session scheduling, and availability checks. These manual simulations made it possible to observe how users navigated the system, what actions they attempted, and where confusion or hesitation occurred. This provided critical feedback on how users interpreted the interface and engaged with its components. To ensure that the feedback reflected realistic user behavior, representative users were selected for testing. This group included both students and tutors who closely matched the intended personas of the platform. Their participation helped identify usability issues, improve task flow, and refine the structure of key processes. By collecting observations and reactions from this early group, the design could be adjusted and optimized before moving forward with more advanced development stages. The use of the Wizard of Oz method proved valuable not only in validating the concept but also in guiding user centered decisions.

Low-Fidelity Prototyping in Tutor Finder Development

One important tactic used in the early phases of the Tutor Finder platform's design was low-fidelity prototyping. This approach allowed for the exploration of platform features, user navigation, and interface layout without requiring complex technical development. Basic wireframes, hand-drawn sketches, and simple digital mockups were created to represent major system components such as tutor search, booking, and profile management for both learners and tutors. Early testing of the content organisation, page transitions, and general task flow was made possible by these visual representations, which also helped to make clear how users would interact with the system. One of the main goals of this approach was to identify issues in labeling, layout, or navigation that could confuse users or slow them down. Because the prototypes were simple and easy to revise, multiple design variations could be evaluated and improved quickly without committing significant resources. By using low-fidelity prototypes, design flaws were identified early and corrected through iterative adjustments. This not only saved time and effort in the long term but also supported the development of a more user-friendly platform. The process enabled the team to make meaningful design decisions based on observed behavior rather than assumptions. Overall, low-fidelity prototyping played an essential role in shaping a clear, efficient, and intuitive interface.

Transition from Low-Fidelity to High-Fidelity Prototyping in Tutor Finder

The transition from low-fidelity to high-fidelity prototyping in the Tutor Finder project was guided by critical insights gathered during early usability evaluations. The visual structure and task flow were the main focus of the first prototypes, but usability testing showed a number of issues with clarity, navigation, and the user experience as a whole. One major issue identified was the use of ambiguous button labels such as "Search Now" or "Start Booking," which several participants found unclear. The high-fidelity design addressed this by completely rewriting the interface text by replacing more understandable phrases like "Find a Tutor," "Check Availability," and "Book a Session" for confusing terms. In order to enhance accessibility and facilitate greater comprehension among various user groups, visual aids like icons and hover states were also included. Additionally, users expressed confusion about navigating backward or editing previous steps. In response, the updated prototype included consistent button placements, such as "Edit" buttons next to summary sections and clearly labelled "Next" and "Back" options, allowing users to edit data without having to restart the process. Another significant improvement was the establishment of a clearer visual hierarchy. During early testing, participants found it difficult to distinguish primary actions from supporting ones. This was fixed in the high-fidelity version by giving the primary action

buttons affecting colour treatments and popular positioning, while the secondary options were displayed in basic colours. In order to promote a feeling of professionalism and trust, the previous pink gradient theme was swapped out for a soothing blue gradient based on comments regarding visual appeal and emotional trust. A single, well-structured screen flow that put tasks like tutor selection, date availability, and session confirmation was used to streamline the booking process and reduce user tiredness. Better context continuity and less friction from frequent page transitions had been in turn provided. Overall, the high-fidelity prototype, developed in Figma, built upon the initial framework while eliminating sources of confusion and inefficiency.

High Fidelity Prototype

The high fidelity prototype of **Tutor Finder** represents a near-final version of the platform, showcasing its visual design, interactive flow, and user experience. Designed with attention to detail, this prototype mirrors the real functionality of the system including tutor discovery, profile browsing, secure messaging, and skill-based filtering. Built using intuitive UI components and responsive layouts, the prototype allows stakeholders to experience the platform as actual users would.

- **Visibility of System Status** is demonstrated in the Tutor Finder prototype through features like the favorites icons. When clicked, the icon changes visually to confirm the action, and the favorite status is saved across sessions. This immediate feedback keeps users informed of system responses, aligning with Nielsen's first usability heuristic.

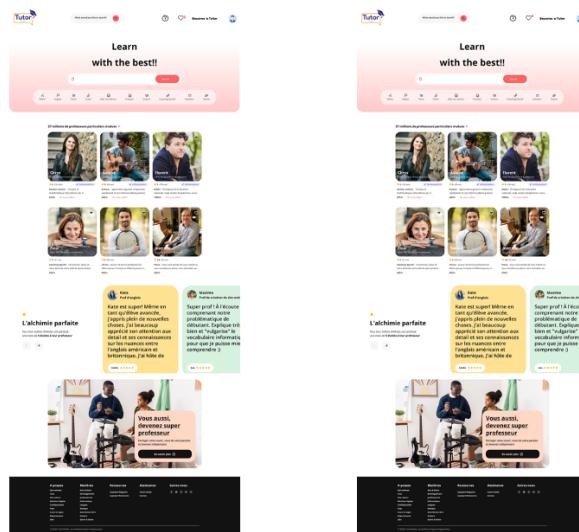


Figure 8: Visibility of System(Favorite Button)

- **Match Between System and the Real World** is reflected in Tutor Finder through intuitive language and familiar design patterns. Terms like “Mode,” “Location,” and “Subjects” shows real-world concepts, making navigation simple. This alignment helps users interact naturally with the platform.

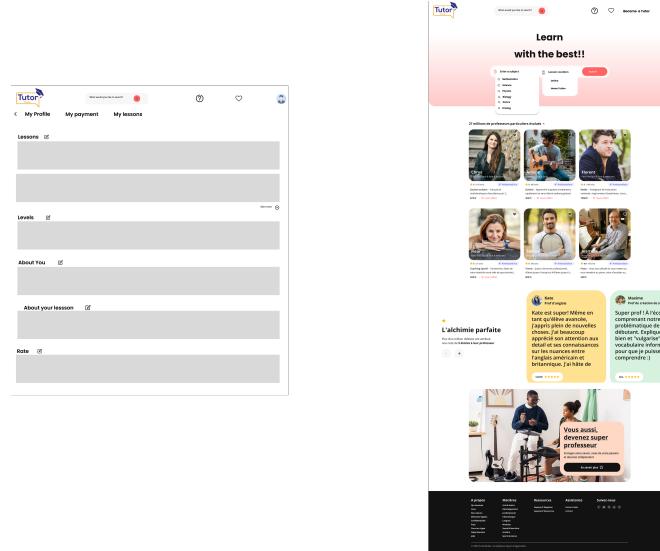


Figure 9: Match Between System and the Real World

- **User Control and Freedom** is supported in Tutor Finder through flexible features like the close button on booking modals and easy navigation between steps. Users can cancel or modify inputs without restarting the process, giving them control and reducing pressure. This aligns with Nielsen’s third heuristic by allowing smooth recovery from unintended actions.

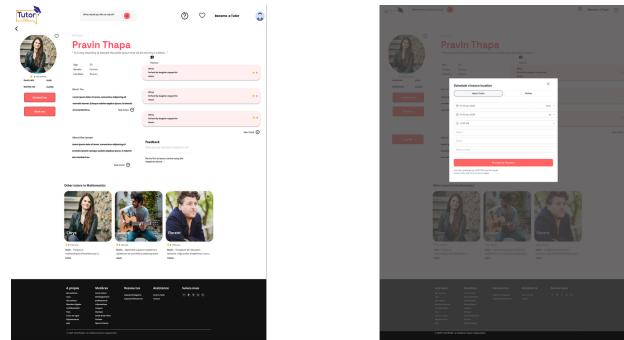


Figure 10: User Control and Freedom

- **Consistency and Standards** are maintained in Tutor Finder through uniform layouts, typography, and icon usage across all screens. Features like red action buttons, rounded fields, and recognisable icons make it easy for users to identify patterns and actions. This consistency reduces confusion and supports a smooth, intuitive user experience.

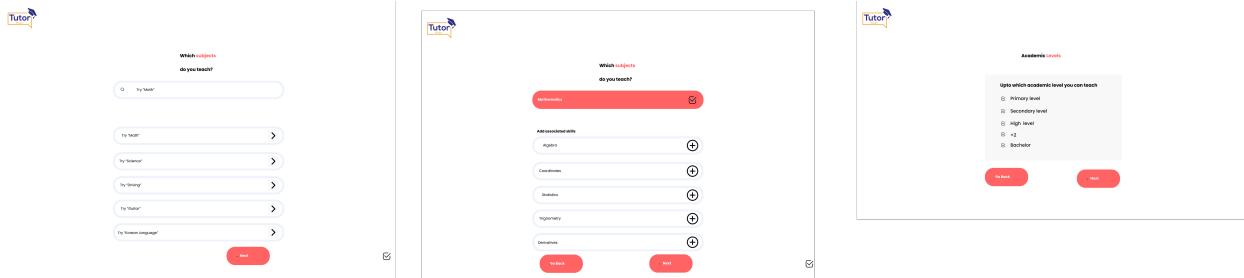


Figure 11:Consistency and Standards

- **Error Prevention** is addressed in Tutor Finder through clear labels, placeholder text, and validation in input forms. Actions like disabling the “Sign Up” button until all fields are correctly filled help prevent mistakes. Google login is one option that makes the process even simpler, lowering errors and boosting user confidence.

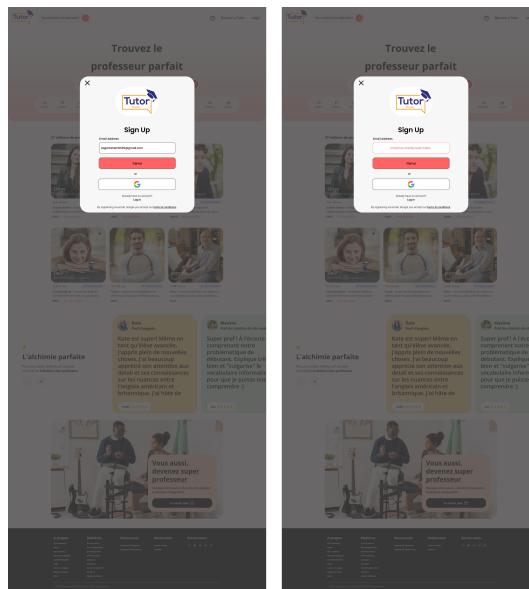


Figure 12:Error Prevention

- **Recognition Rather Than Recall** is achieved in Tutor Finder by displaying subject and location filters as dropdowns and chips, helping users choose from visible options instead of remembering them. Selections stay visible, reducing cognitive load and supporting easy navigation through visual cues.

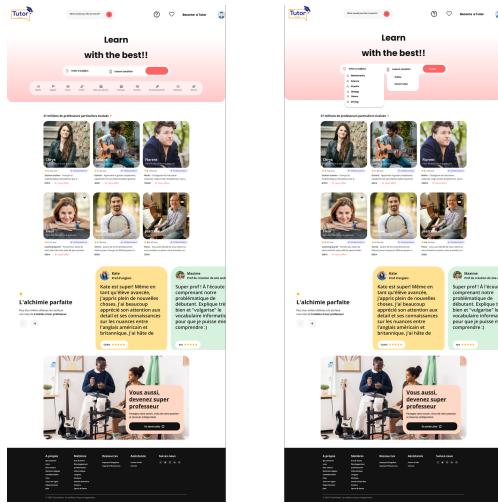


Figure 13: Recognition Rather Than Recall

- **Flexibility and Efficiency of Use** is supported in Tutor Finder through features like a sticky header with a persistent search bar, allowing users to access key tools without scrolling. This design enhances speed and convenience, especially for experienced users, by minimizing repetitive actions and supporting efficient navigation.



Figure 14: flexibility and Efficiency of Use

- **Aesthetic and Minimalist Design** is reflected in Tutor Finder through a clean layout, soft colors, and well-organized content. This design supports clarity, readability, and ease of navigation, helping users stay focused on essential tasks.



Figure 15:Aesthetic and Minimalist Design

- **Help Users Recognize, Diagnose, and Recover from Errors** is implemented in Tutor Finder through clear error messages like “Invalid email or password” and visible recovery options such as “Resend login code.” Input fields highlight issues without clutter, helping users fix mistakes easily and continue with confidence.

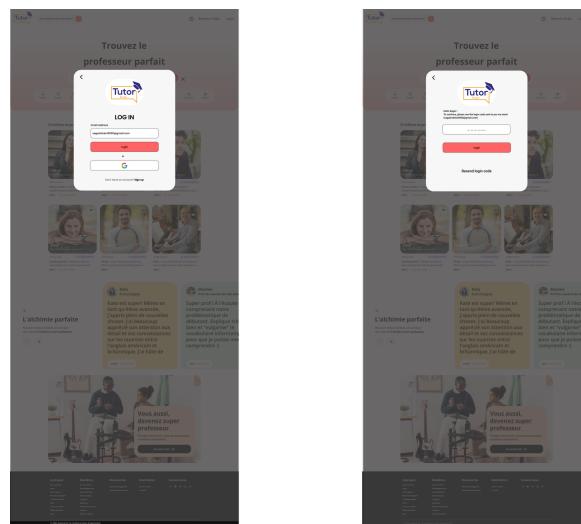


Figure 16:Help Users Recognize, Diagnose, and Recover from Errors

- **Help and Documentation** is supported in Tutor Finder through a dedicated Help Center with a clear search bar and role-specific content for students and tutors. Categorized FAQs and a simple layout make it easy to find guidance, ensuring users can quickly access support when needed.

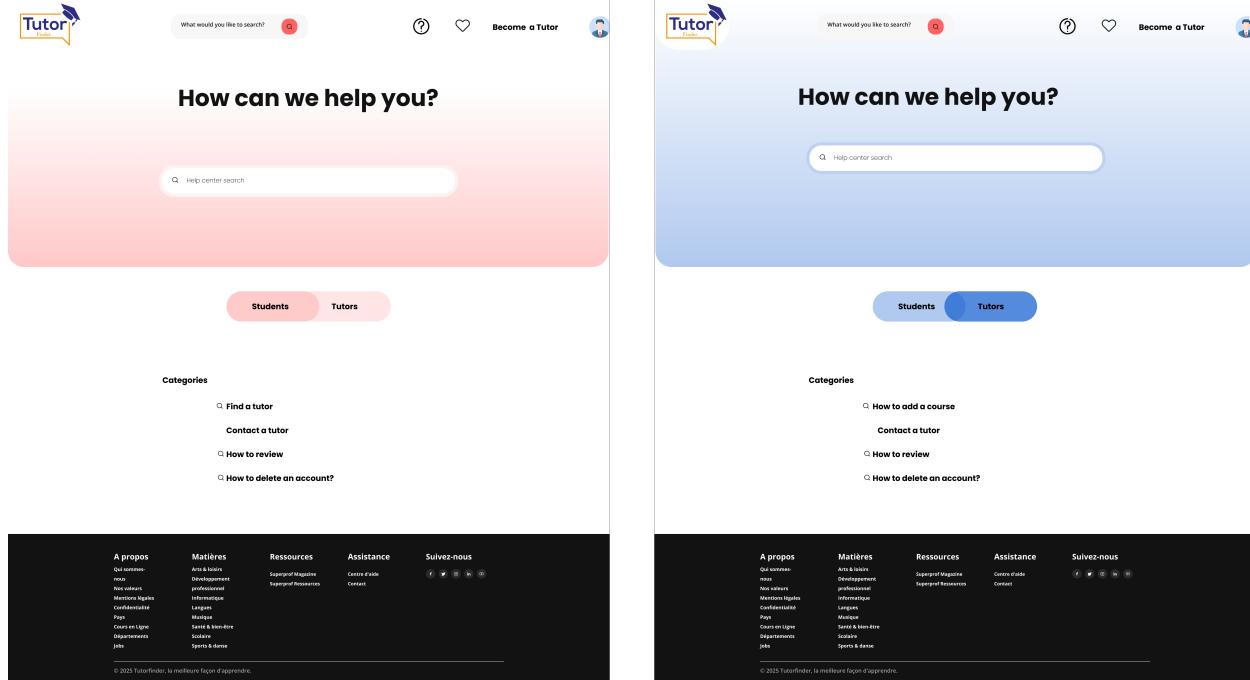


Figure 17:Help and Documentation

High-Fidelity Testing Using Guerrilla Methodology

To determine how valuable and easy to use the high-fidelity Tutor Finder prototype was, "guerrilla testing" was undertaken. It involves approaching people in college ,hostel , and inviting them to try the prototype for a few minutes. This meant that there were a lot of varied users, some of whom were more comfortable with technology and had more experience with online learning platforms than others. They had to search for teachers, use filters, browse profiles, and schedule sessions like ordinary users. Certained observation was noticed like how they clicked, how long tasks took, and any vocal or nonverbal signs of confusion in real time. Most users found the site straightforward to use and loved the clear, smooth UI. Many praised the responsive design and logical option arrangement. Tests revealed other issues that needed improvement. Some clients weren't sure if their booking went through, thus the confirmation message should be clearer. Some experienced problems getting help or changing their profile after setting it up. Since insights could be translated into tiny but crucial design modifications

quickly, it made design adjustments conceivable. This light testing procedure provided a good final check before full-scale development. It ensured the interface worked properly in many user contexts.

Transition from High-Fidelity Prototyping to Final Product in Tutor Finder

A planned and thorough process made sure that the design goal and the functional reality matched, from high-fidelity prototyping to the implementation of the Tutor Finder platform. Users tested better layouts, realistic interactions, and navigation flows in the high-fidelity prototype, which was an interactive blueprint. It was a visual guide and a reference for front-end and back-end developers throughout the production cycle. Keeping everything visually consistent, especially with colour palette, typography, spacing, and component styling, was crucial during this move. The Figma prototype established font family, padding, margin, and box styling for all interface elements. This level of design integrity ensured every screen and device looked and felt the same. Some key prototype design choices were applied in the final build to make it more practical and realistic. The system switched from the concept of a "login code" to a safer email and password login. Most consumers were satisfied, and the authentication process was strengthened. Tutor registration used to be done on many screens, but now it's all done on one multi-section form. This coming together let teachers enter their personal information, areas of expertise, teaching mode, qualifications, pricing, and availability in one process. Section headers and progress indicators helped maintain clarity without disrupting the user's flow. User feedback during prototype testing led to a "Forgot Password" option on the login screen. This feature allows email account recovery, making them easier to access and more secure without outside aid. There were also consistent hover effects, more space between grouped items, a higher contrast on the call-to-action button, and a design that worked well. Visual hierarchy was maintained by using bright accent colours for important activities and quiet tones for minor ones. These changes enabled user-tested concepts to work in real life. The high-fidelity prototype was more than a design artifact; it was a strategic base that helped construct a scalable, easy-to-use, and beautiful Tutor Finder platform.

Final Product

Flat Design

Tutor Finder uses flat design principles to make a user interface that is clean, responsive, and easy to use, which improves both functionality and visual clarity. The platform focusses on simplicity and usability by getting rid of extra gradients, shadows, and 3D elements. Buttons, input fields, and navigation bars are all examples of core UI elements that have clear shapes, bold colours, and consistent alignment. This design choice makes it easy for both students and teachers to use the platform, which cuts down on confusion and mental effort.

The homepage makes it easy for users to find tutors, sign up, and look through subjects without making things too busy with extra graphics. Users can find important features by following flat icons and a consistent colour scheme, which also keeps the look of the site in harmony. The font family stays the same across the platform, which helps create a clear visual order that makes things easier to read and draws users' attention.

Metaphor

Meaningful metaphors are incorporated into the Tutor Finder platform to produce a comfortable and interesting user experience. The process of locating the ideal tutor is portrayed as a guided learning path, with learners moving through phases like "Explore Tutors." This is similar to what one might do to get ready for school or personal development.

The idea that each tutor represents a distinct skill or subject area to be unlocked is reinforced by the tutor profiles' visual structure, which is modelled after learning cards. The booking system resembles scheduling a class or lesson, further reinforcing the educational metaphor. Even inexperienced users can easily navigate the platform thanks to these well-known analogies, which streamline intricate procedures like filtering, booking, and profile comparison. Tutor Finder sustains a unified, relatable experience in line with its educational goal by employing metaphors consistently.

Crow's Feet Emotions

Through understated, user-centred design elements that inspire comfort, satisfaction, and trust, Tutor Finder employs the idea of "crow's feet emotions." An emotionally engaging user experience is enhanced by small details like animated status updates, visual confirmation following a session booking, and the seamless transition when adding a tutor to favourites.

For instance, a soft checkmark animation and message that appears when users receive a booking confirmation reinforces the sense of accomplishment. Small features like quick-glance badges for verified tutors and responsive hover states for tutor profiles give the interface a more human touch and a sense of assurance. These well-considered design cues create a positive emotional connection with the platform by reflecting real-life moments of clarity and confidence. This attention to emotional design ensures that Tutor Finder is not just functional, but also memorable and enjoyable to use.

Strange Metaphor

Tutor Finder introduces subtle, unconventional metaphors to create a more engaging and meaningful experience without relying on complex gamification or abstract visuals. The platform reimagines the tutoring journey as a guided quest for knowledge, where students act as explorers navigating a personalized path toward growth. Each interaction—whether it's browsing, filtering, or booking—is framed as a purposeful step in discovering the right mentor.

The subject, location, and mode (online/offline) filters function metaphorically as “compass tools,” helping learners narrow their direction and refine their educational journey. Tutor profiles act as “learning gateways,” each offering a unique opportunity for development based on expertise, teaching style, and availability. Booking a session becomes a symbolic action similar to “starting a learning chapter” where students initiate meaningful engagement with a chosen guide.

Even without complex progression tracking or gamified visuals, these subtle metaphors enhance the user experience by shifting the narrative from simple task execution to meaningful exploration.

Development Methodology: Trello

Trello was used to manage tasks and track progress during the agile-inspired development of the Tutor Finder platform. The development lifecycle was arranged into manageable stages using Trello's card-based interface, which offered a flexible and visual framework. Clear progress tracking and efficient prioritisation were made possible by the task classification into lists like Backlog, To Do, In Progress, Testing, and Completed. On the Trello board, each card stood for a distinct feature or task, such as "Profile UI Design," "Tutor Search Filters," or "User Authentication." Due dates, labels (such as UI, Backend, and Bug Fix), and checklists to deconstruct subtasks were applied to these cards, which made it simpler to

monitor progress at both the macro and micro levels. Trello's visual workflow made it easier to stay on track and concentrate on iterative improvements. To indicate milestones, completed tasks were moved to the last column, and for clarity, testing notes and feedback were added straight to the appropriate cards. This simple and easy-to-use system, which provided structure and flexibility without being overly complicated, worked particularly well in a solo development environment. The Tutor Finder project was able to maintain organisation, efficiently monitor progress, and guarantee that important features were delivered on schedule and in accordance with priority by utilising Trello as the primary tool for planning, development, and revision.

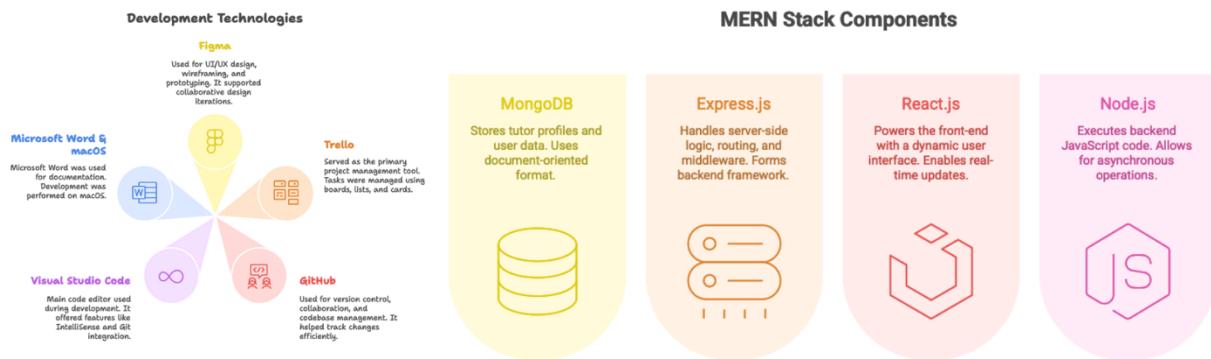


Figure 18: Tools and Technology

Version Control and Configuration Management

Github : <https://github.com/sagarchhetri2003/tutorfinder.git>

YoutubeLink: <https://youtu.be/jxTduse3o5k>

Github : <https://www.figma.com/design/Z4RoMGsZSAGIkduJuvGyvb/Tutorfinder?node-id=0-1&t=WlMQvG4AZz9gKbz-1>

Consent form and Low Fidelity Link:

<https://drive.google.com/drive/folders/19NWi40HKppHbTm7INP8QQ5oQMhopepD3?usp=sharing>

Low fidelity Questionare with Response : <https://forms.gle/x2K9NTwzZA2ir6wi9>

High fidelity Questionare with Response :

https://docs.google.com/forms/d/e/1FAIpQLSejTbt_TjGl90Bpzvl7QvfppNFL6TLR_cM4axzwaRg8j_TFeAg/viewform?usp=header

Low Fidelity participants Vedio: https://youtu.be/g1_BSOOpBAcU?si=wcfiK_cp3WGA6cFr

High Fidelity participants Vedio: <https://youtu.be/jxTduse3o5k>

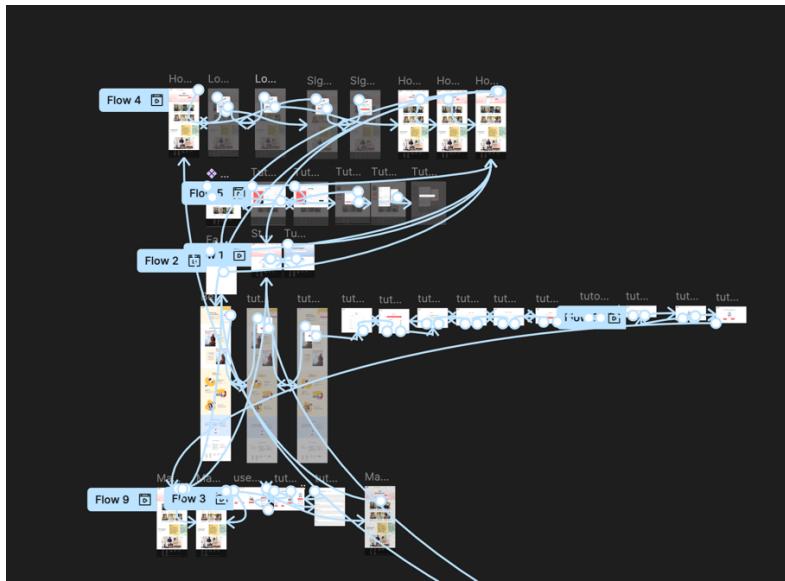


Figure 19:Figma

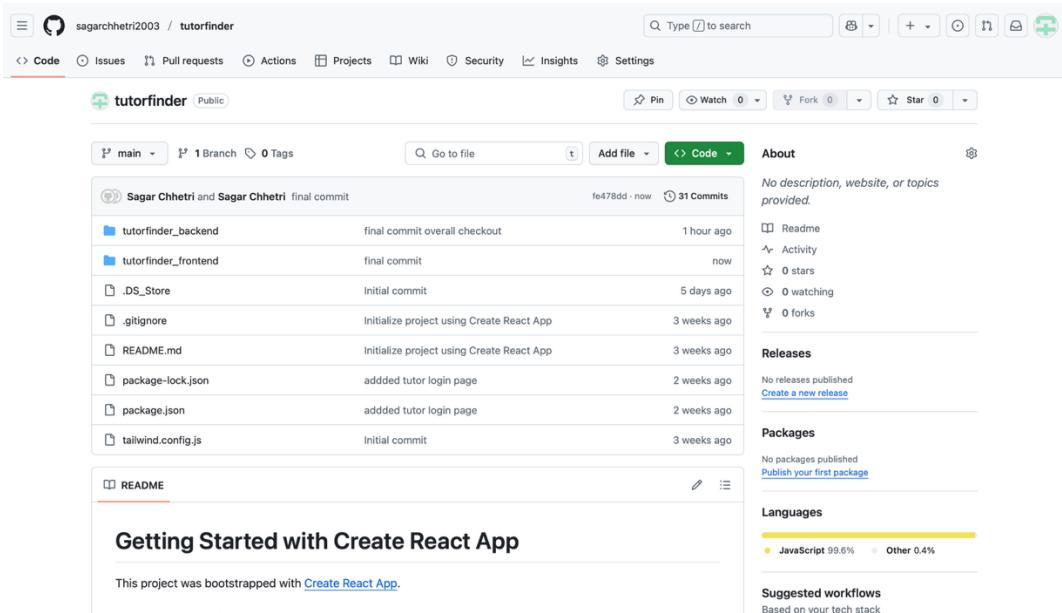


Figure 20:Github

Conclusion

The final product of the Tutor Finder project represents the culmination of a user-centered design process that began with early-stage ideation and evolved through iterative prototyping and testing. Guided by Nielsen's usability heuristics, every feature and interface element was designed with clarity, flexibility, and user empowerment in mind.

Throughout development, low-fidelity wireframes enabled rapid testing of layout and flow, while high-fidelity prototypes brought the platform closer to its real-world form, enabling refined interaction design and accessibility adjustments. Flat design principles ensured simplicity, consistency, and modern aesthetics across all devices, while metaphor-driven elements gave the platform personality and purpose. Subtle emotional cues such as confirmations, tooltips, and animated feedback created moments of connection that enriched the user experience. Unconventional metaphors further deepened engagement by aligning platform tasks with meaningful narratives. Together, these tactics helped to create Tutor Finder into a smooth, user-friendly, and emotionally impactful platform that enables tutors to easily connect with the right audience and students to find the right guidance.

References

- SuperProf - the platform for private tutors. (n.d.). Superprof. <https://www.superprof.com/>
- Prosikshya. (n.d.). *Nepal's best private tutor finder*. Retrieved July 20, 2025, from <https://prosikshya.com/>
- Mero Tutor. (n.d.). Tutors for all grades and subjects in Kathmandu. Retrieved July 20, 2025, from <https://merotutor.com/>
- Atlassian. (2022, May 23). What is Trello? Atlassian Support. <https://support.atlassian.com/trello/docs/what-is-trello/>
- Meltzer, R. (2023, May 11). Flat Design: A Complete Beginner's Guide. CareerFoundry. <https://careerfoundry.com/en/blog/ui-design/what-is-flat-design/>
- Nielsen, J. (2024, February 20). 10 Usability heuristics for user interface design. Nielsen Norman Group. <https://www.nngroup.com/articles/ten-usability-heuristics/>
- Rosala, M., & Paul, S. (2025, June 10). The Wizard of Oz Method in UX. Nielsen Norman Group. <https://www.nngroup.com/articles/wizard-of-oz/>

- UXtweak. (2023, August 24). Guerrilla Usability Testing - Guides - Learn user testing & UX research | UXtweak. Guides - Learn User Testing & UX Research | UXtweak. <https://www.uxtweak.com/usability-testing/guerrilla/>
- Gradient Backgrounds –  The best gradient sites all in one place. (n.d.). CSS Gradient. <https://cssgradient.io/gradient-backgrounds/>
- ESewa Document. (n.d.). <https://developer.esewa.com.np/>
- Documentation - Tailwind CSS. (2021, June 17). <https://v2.tailwindcss.com/docs>
- What is REST?: REST API Tutorial. (2025, April 1). REST API Tutorial. <https://restfulapi.net/>
- AEJuice LLC. (2024, June 17). How to animate gradient in After Effects. AEJuice. Retrieved July 12025, from <https://aejuice.com/blog/how-to-animate-gradient-in-after-effects/>
- Figma. (n.d.). Figma: The collaborative interface design tool. Retrieved July 1, 2025, from <https://www.figma.com>
- W3Schools.com. (n.d.). <https://www.w3schools.com/nodejs/>

Appendix

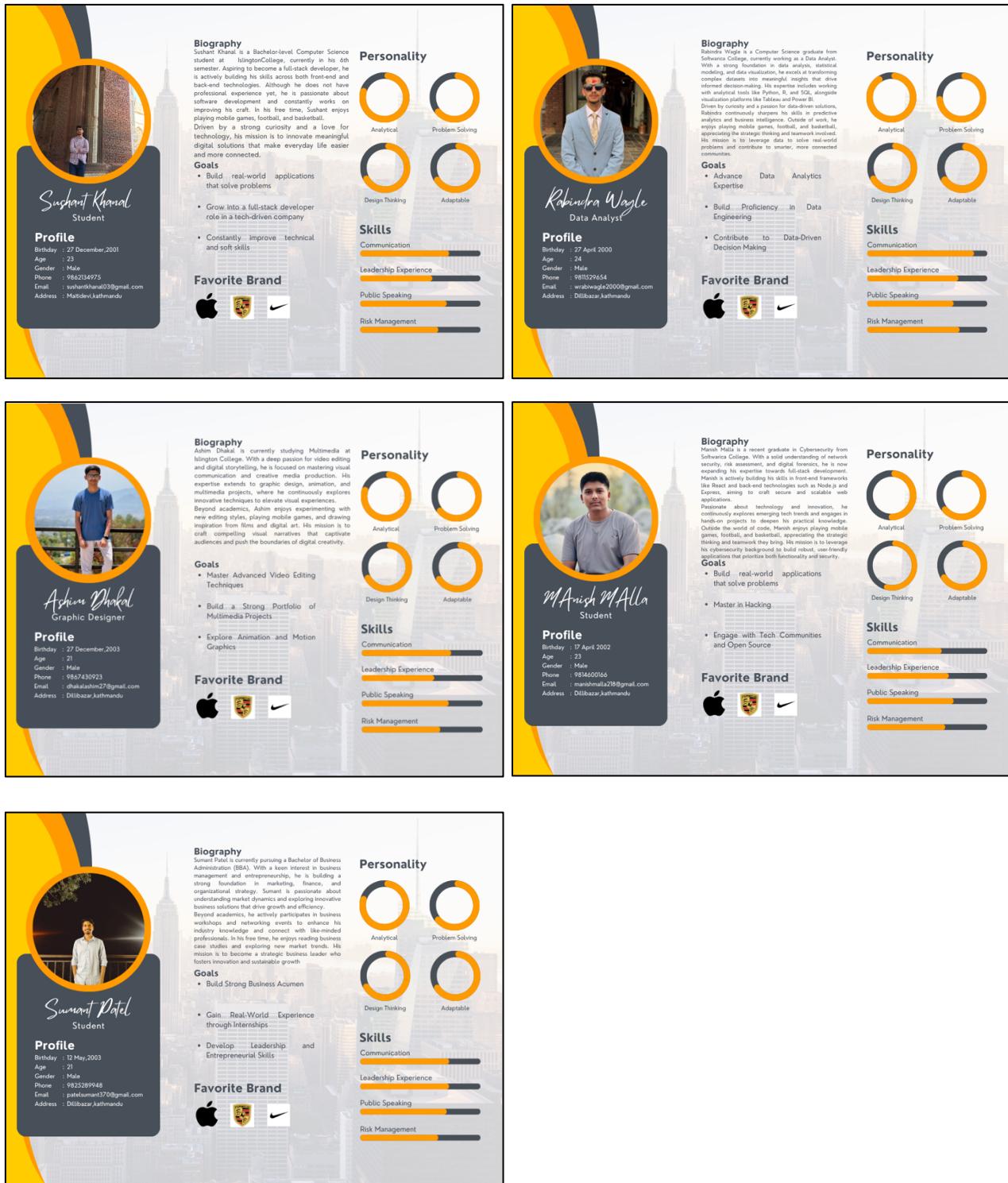


Figure 21:User Persona1



Figure 22:User Persona2

Response

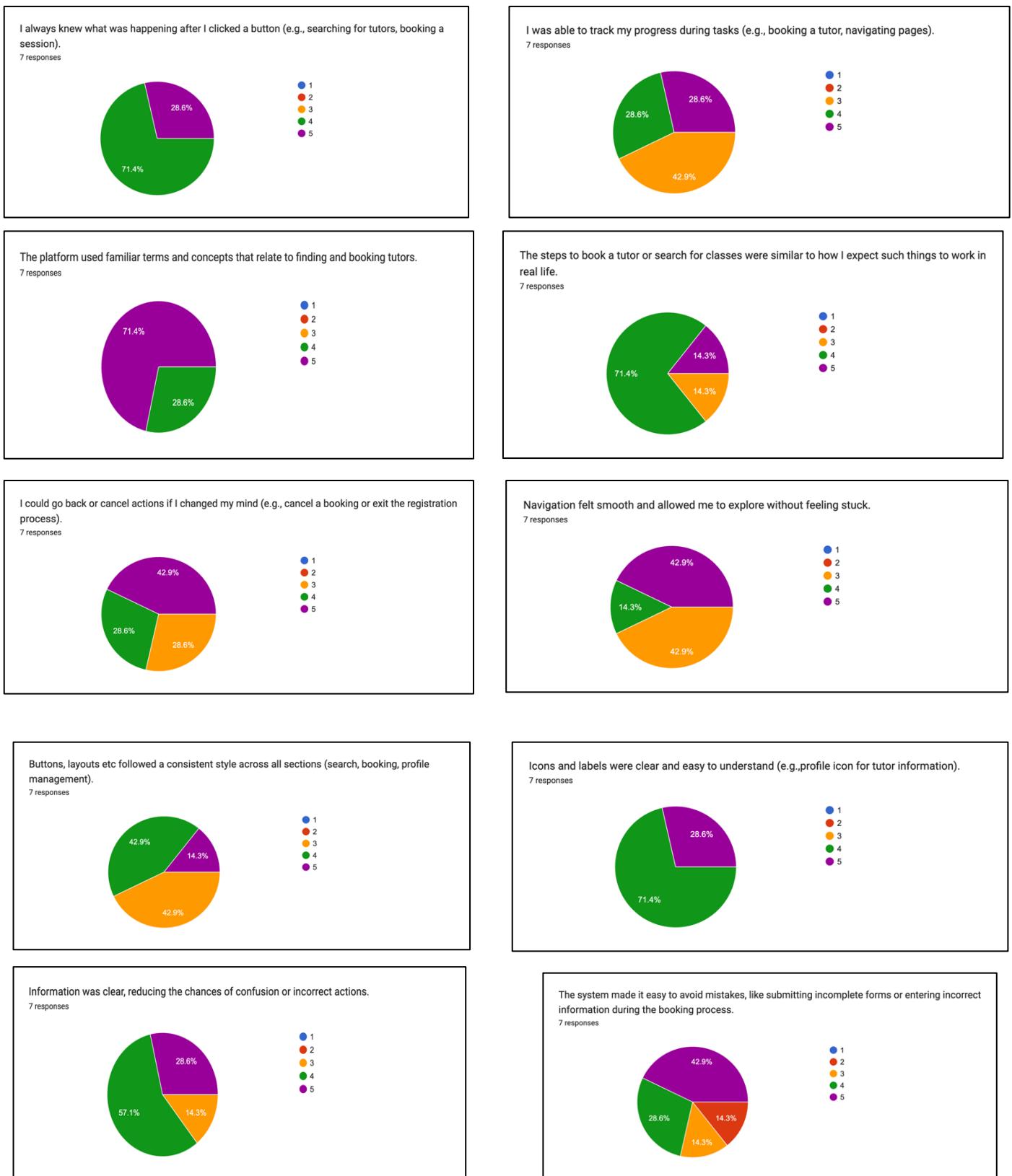


Figure 23: Low Fidelity Response 1

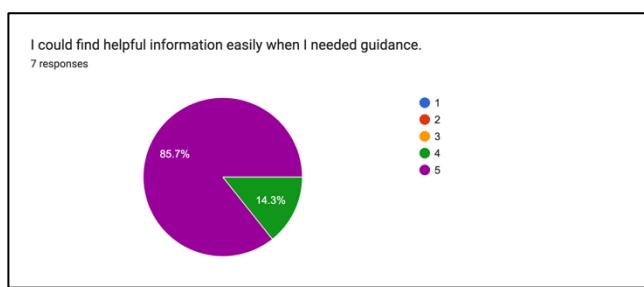
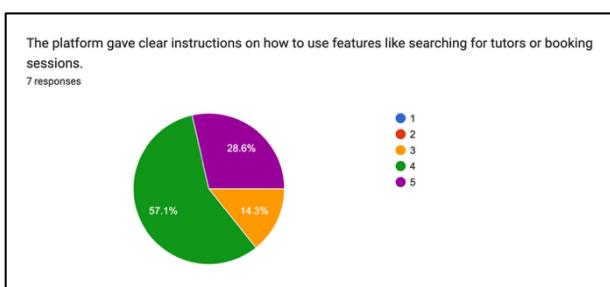
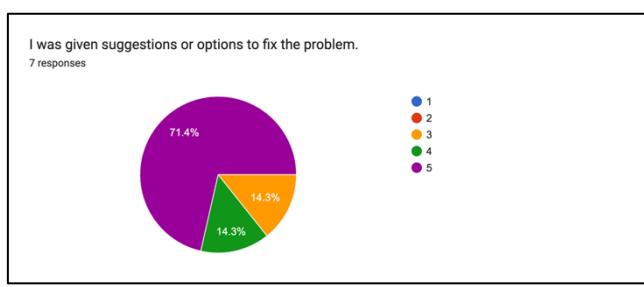
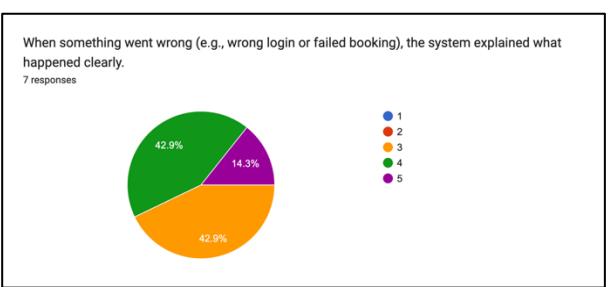
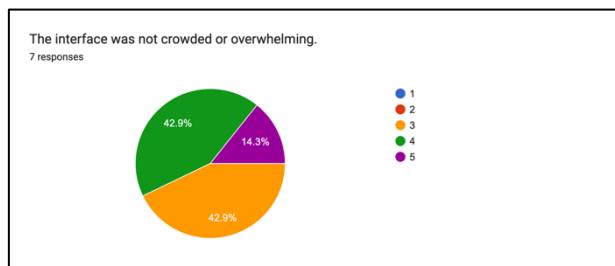
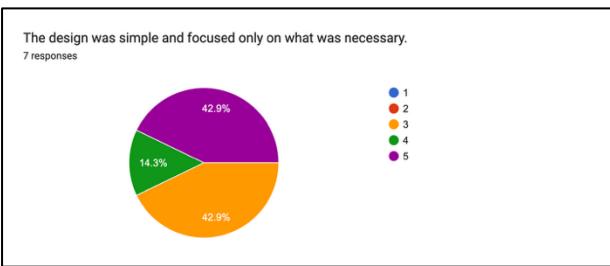
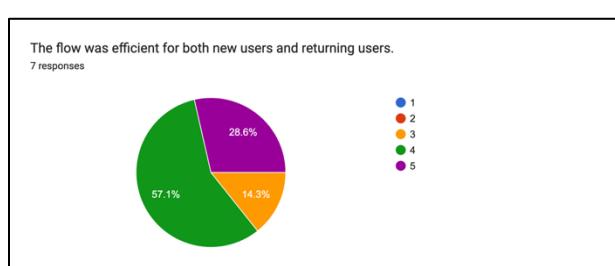
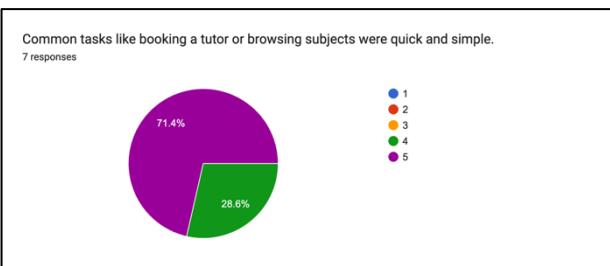
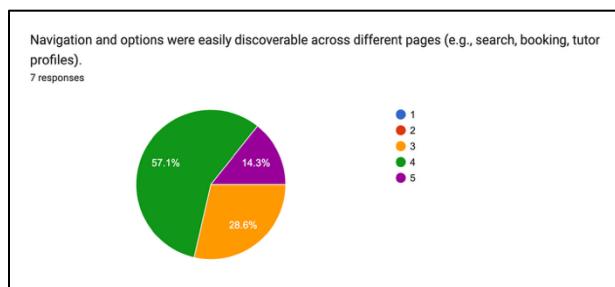
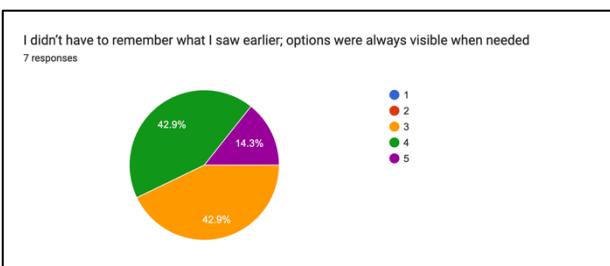
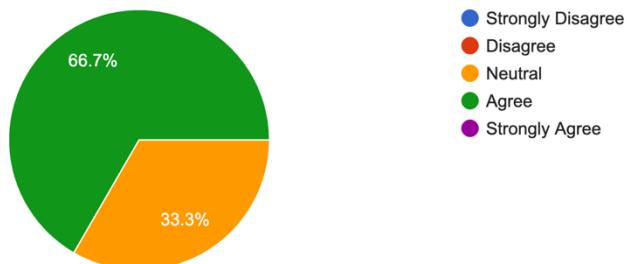


Figure 24: Low Fidelity Response2

When you interacted with features like the favorite button or booking form, did the system provide immediate visual feedback to confirm your action?

6 responses



Were you always aware of the current state of the system (e.g., loading indicators, confirmation messages)?

6 responses



Were the terms used throughout the interface familiar and easy to understand?

6 responses

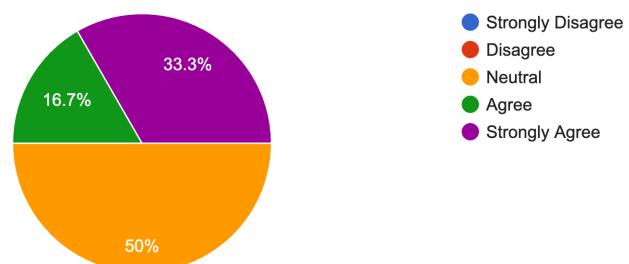
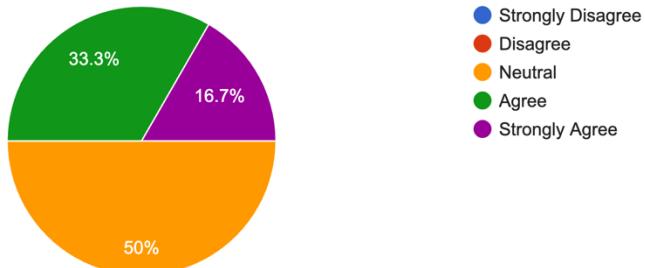


Figure 25: High Fidelity Response 1

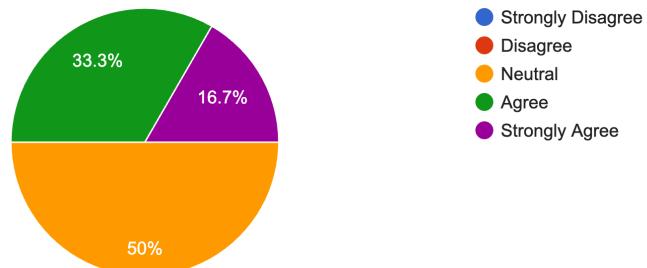
Did you feel in control when navigating the site, without getting stuck in a process?

6 responses



Could you easily undo or cancel actions such as booking, logging in, or editing profile details?

6 responses



Did the layout and content feel natural and logically organized based on your expectations?

6 responses

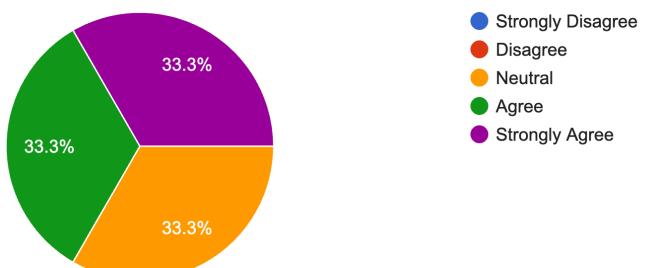
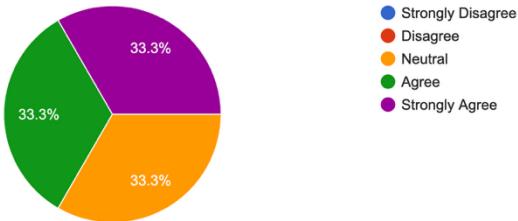


Figure 26:High Fidelity Response2

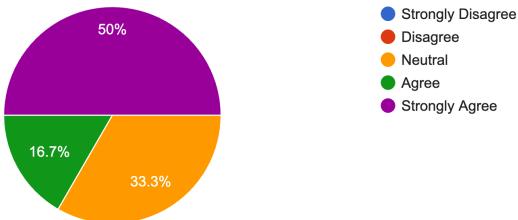
Were similar actions always designed in the same way across the platform?

6 responses



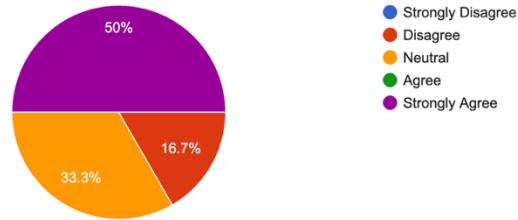
Did the visual design feel consistent throughout your experience?

6 responses



Was the layout visually clean and helpful in focusing your attention on important elements?

6 responses



Did the system guide you to avoid mistakes (e.g., required fields, form validation)?

6 responses

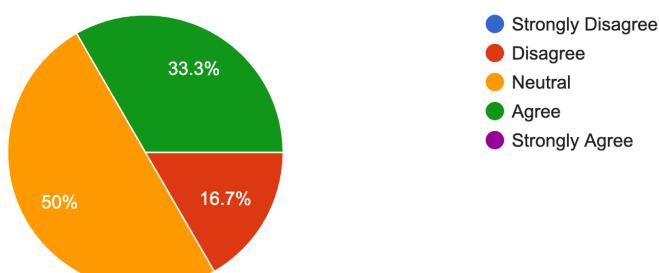


Figure 27: High Fidelity Response3

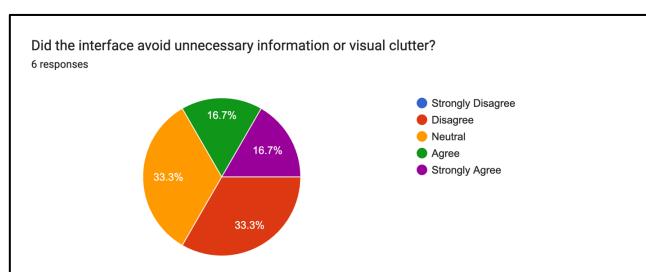
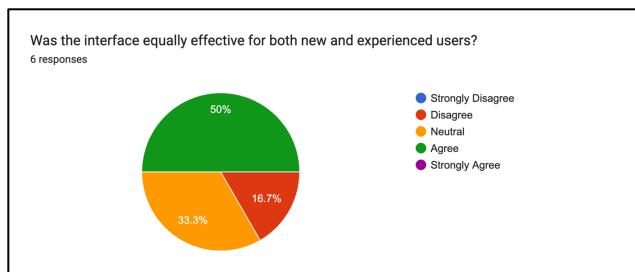
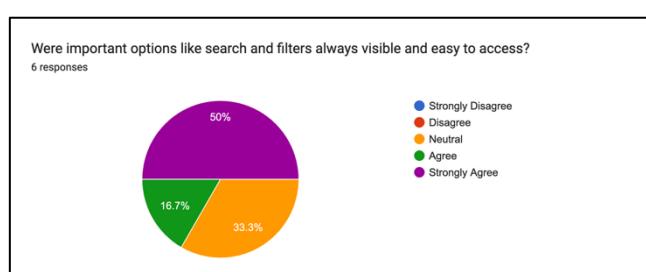
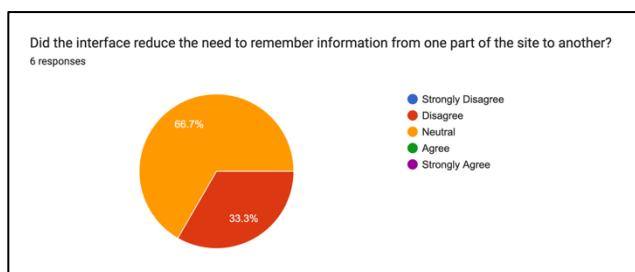
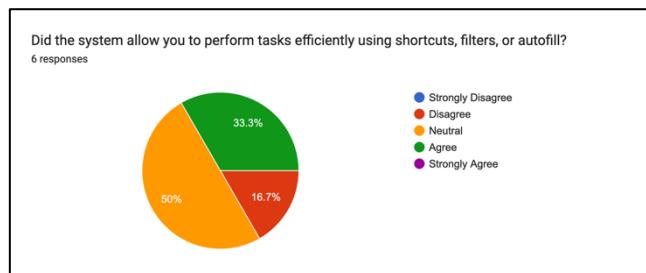
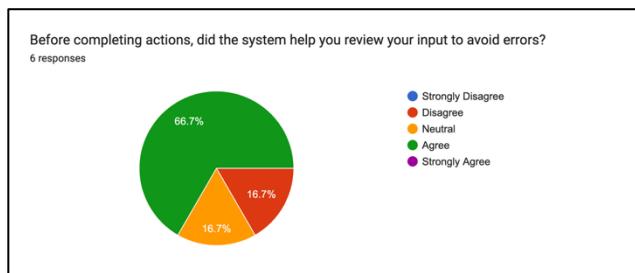
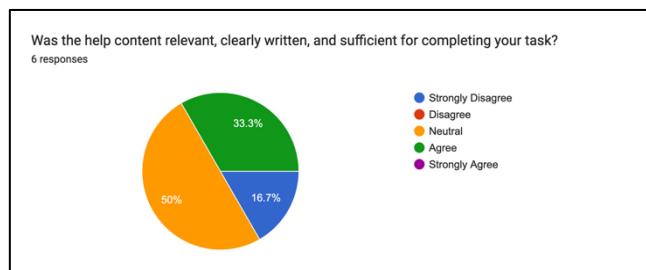
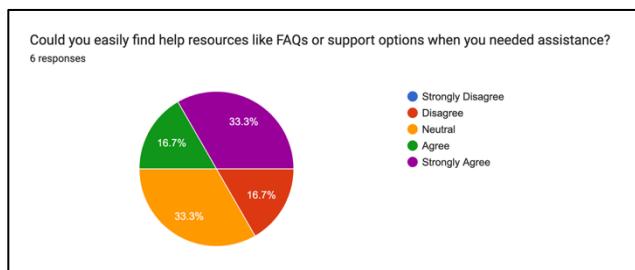
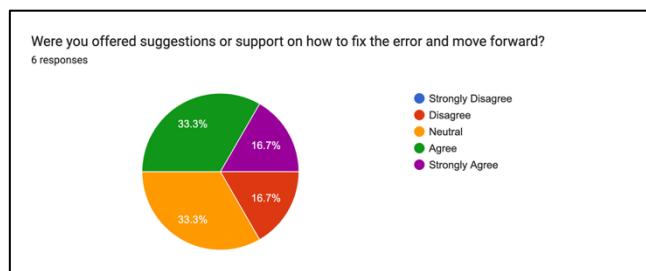
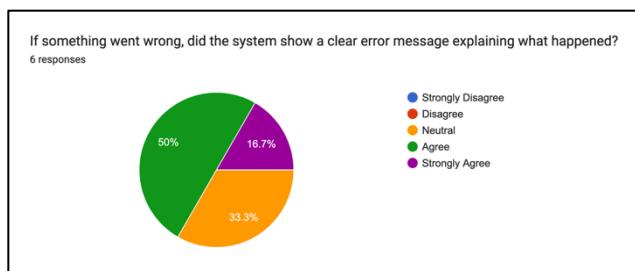


Figure 28:High Fidelity Response4

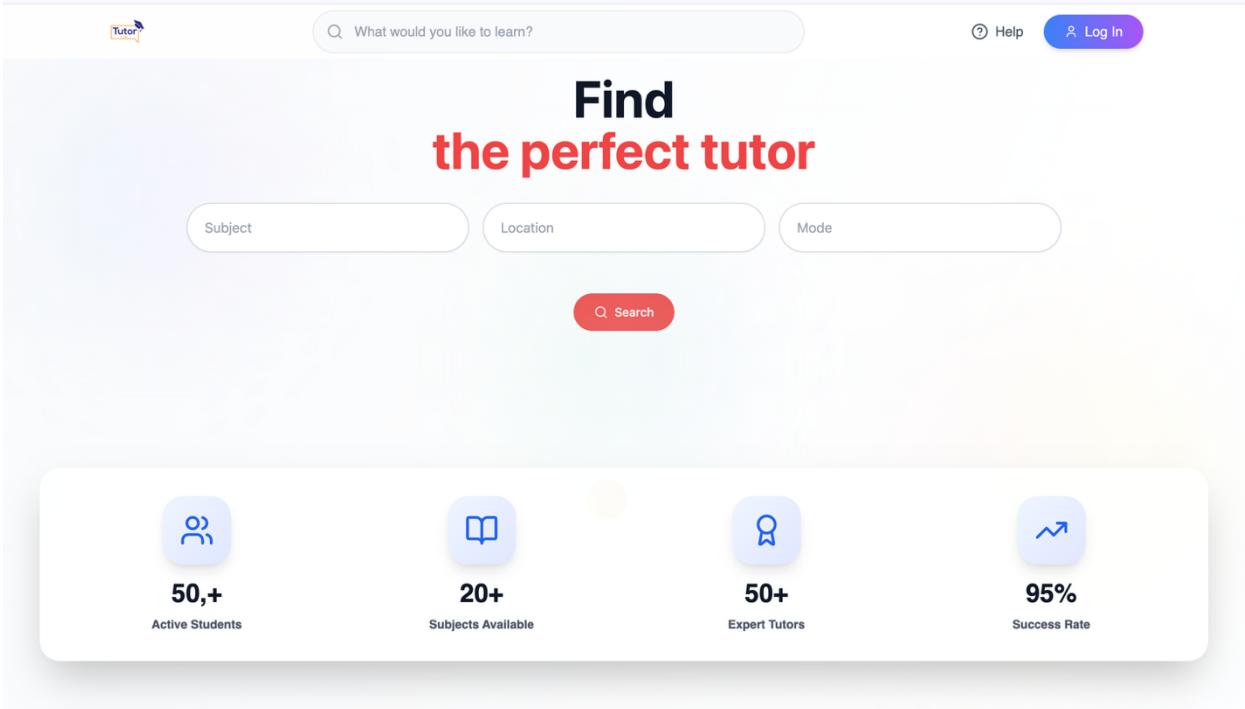


Figure 29:LandingPage

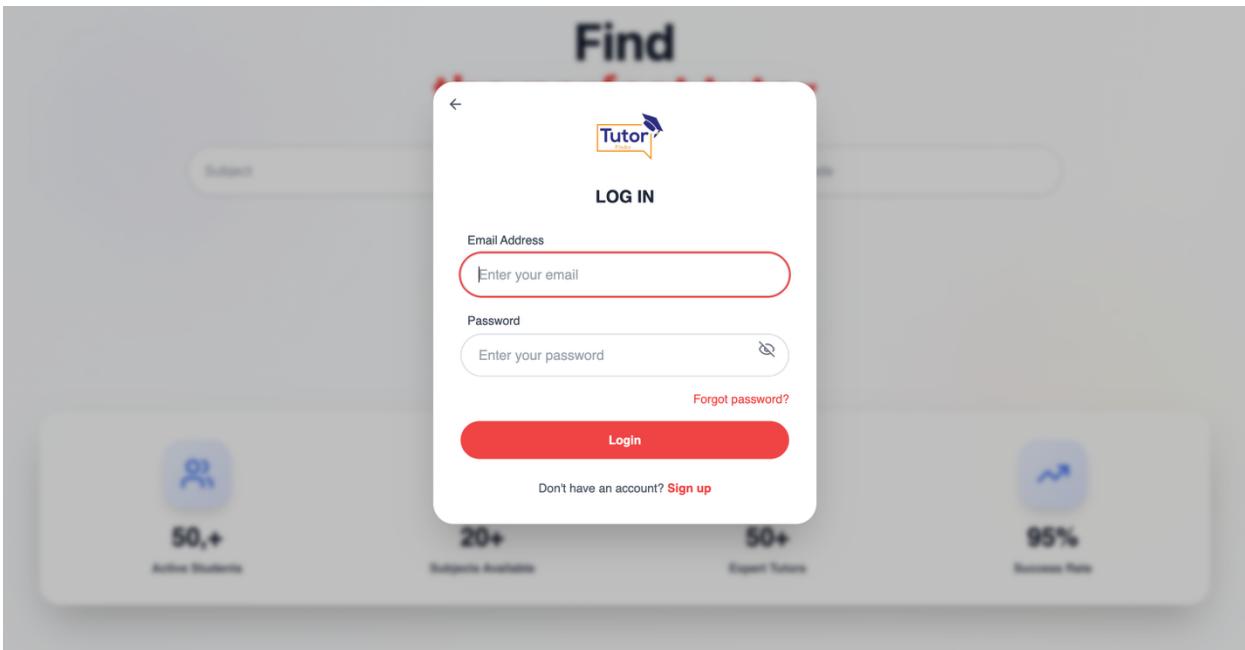


Figure 30:LoginPage

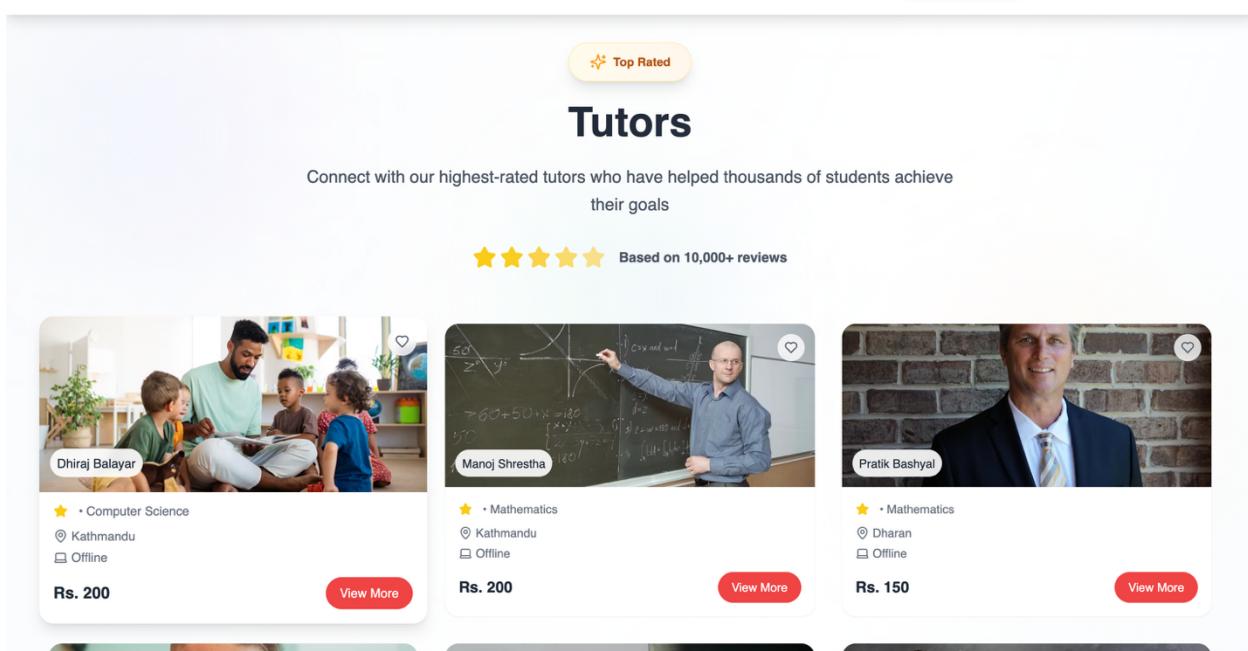
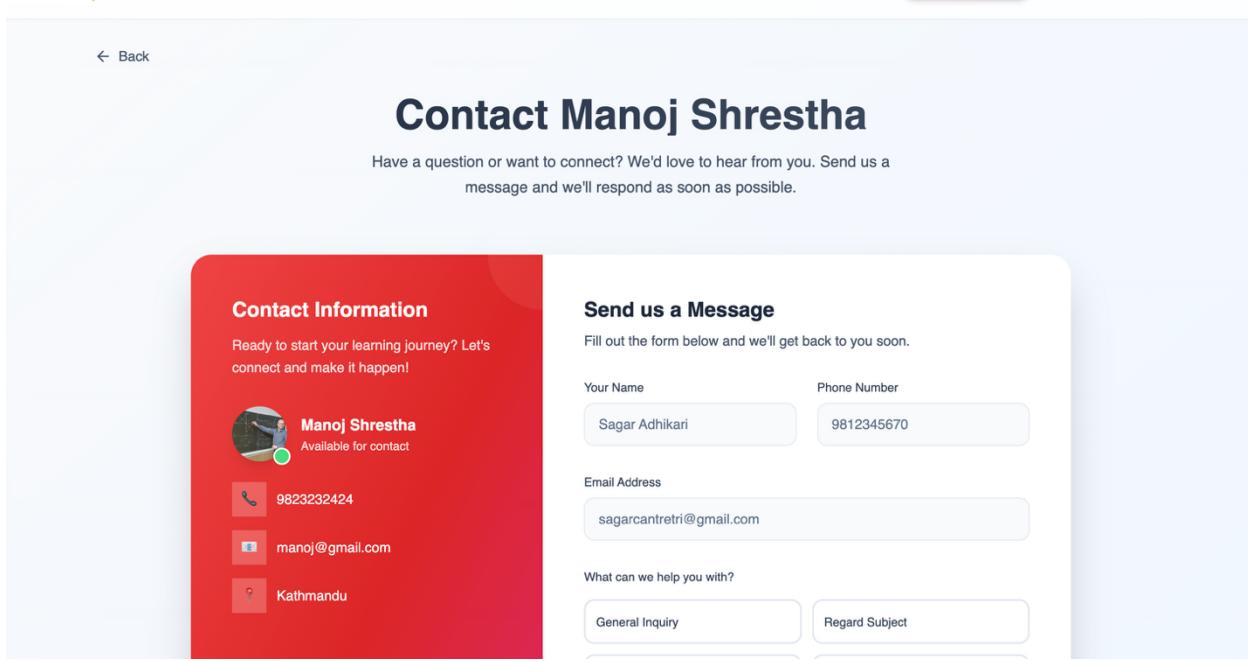


Figure 31: HomePage

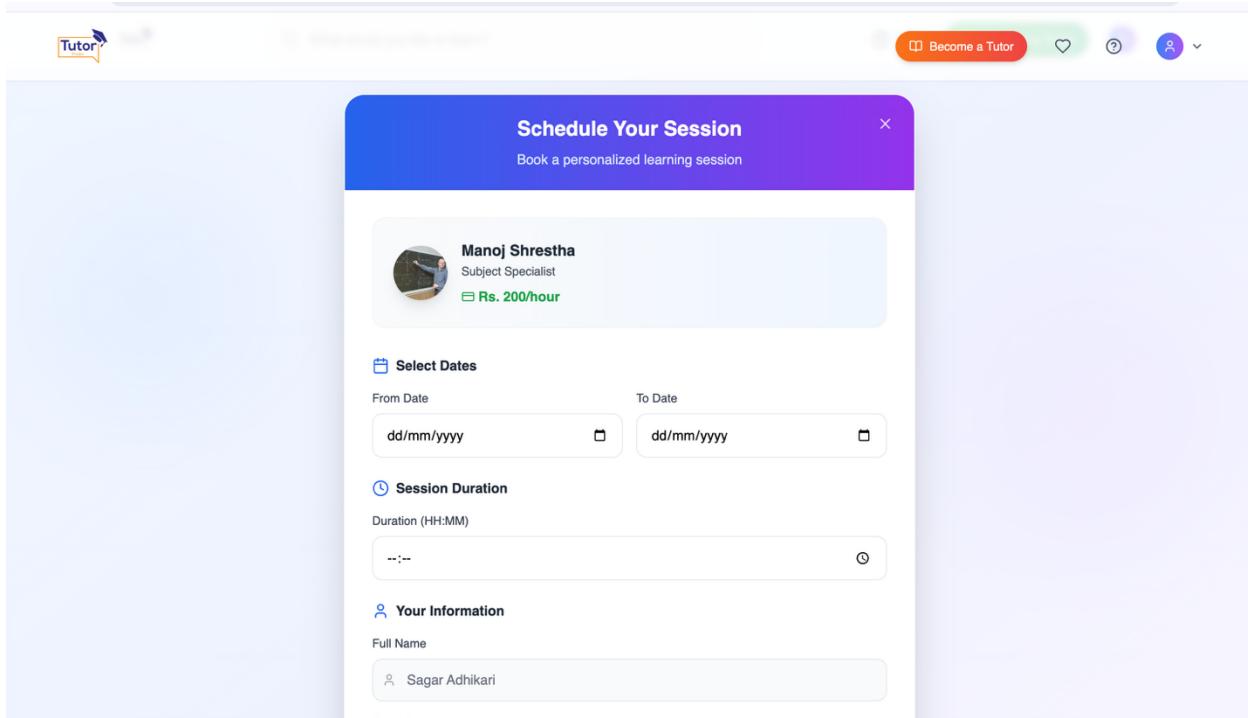
This screenshot shows the detailed profile page for a tutor named Manoj Shrestha. At the top left is a back arrow and a 'Become a Tutor' button. The tutor's name, photo, location (Kathmandu), subject (Mathematics), availability (Offline), and price (Rs. 200/hr) are listed. Below this are two sections: 'About Me' and 'About the Lesson'. The 'About Me' section contains a bio about Manoj's passion for teaching math and his goal to make it accessible. The 'About the Lesson' section describes the lesson's focus on building a strong understanding of core mathematical concepts through clear explanations, step-by-step problem-solving, and real-world applications. At the bottom is a 'Reviews' section with a count of 2.

Figure 32:TutorDetailPage



The screenshot shows the 'Contact Manoj Shrestha' page. At the top, there's a 'Become a Tutor' button and a user profile icon. Below the header, a message encourages users to send a message. The left sidebar, titled 'Contact Information', lists the tutor's name, phone number, email, and location. The main right section is titled 'Send us a Message' and contains fields for 'Your Name' (Sagar Adhikari), 'Phone Number' (9812345670), 'Email Address' (sagarcanitretri@gmail.com), and 'What can we help you with?' (with options for 'General Inquiry' and 'Regard Subject').

Figure 33: Contact Page



The screenshot shows the 'Schedule Your Session' page. It features a purple header with the title 'Schedule Your Session' and a sub-instruction 'Book a personalized learning session'. The main content area displays the tutor's profile: Manoj Shrestha, Subject Specialist, with a rate of Rs. 200/hour. Below the profile, there are sections for 'Select Dates' (with 'From Date' and 'To Date' fields), 'Session Duration' (with a dropdown for 'Duration (HH:MM)'), and 'Your Information' (with a 'Full Name' field containing 'Sagar Adhikari').

Figure 34: Booking Page

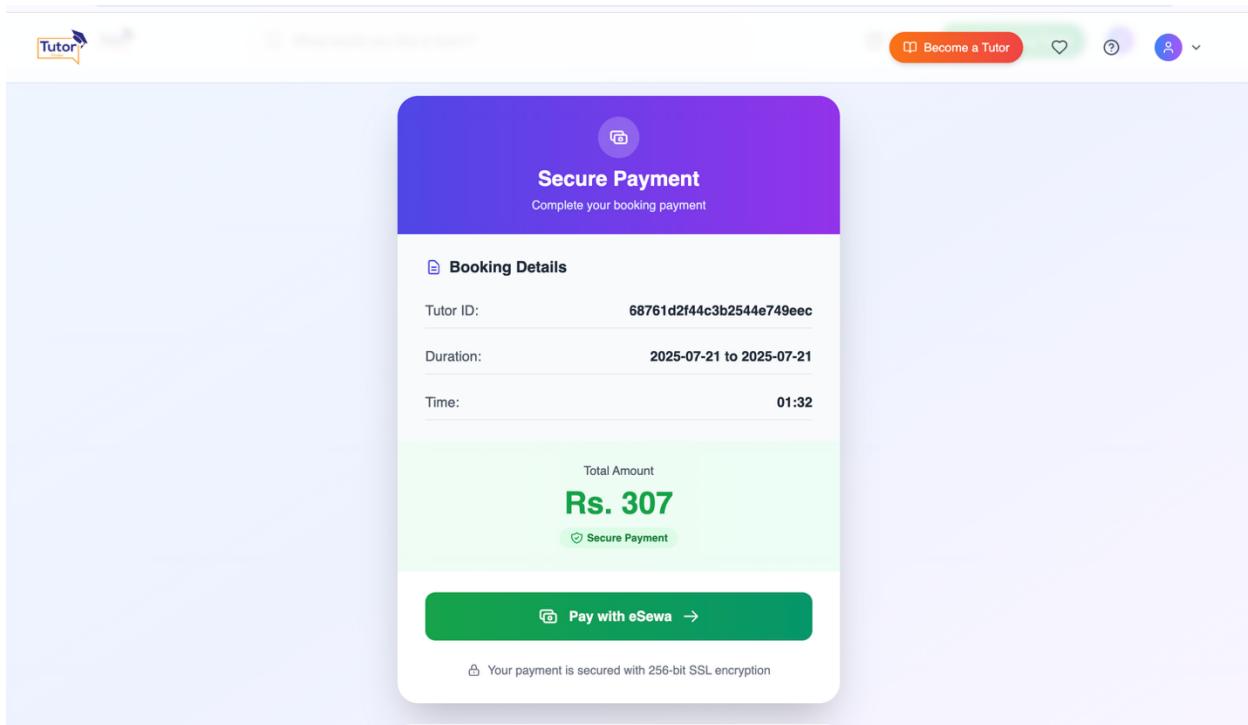


Figure 35:PaymentPage

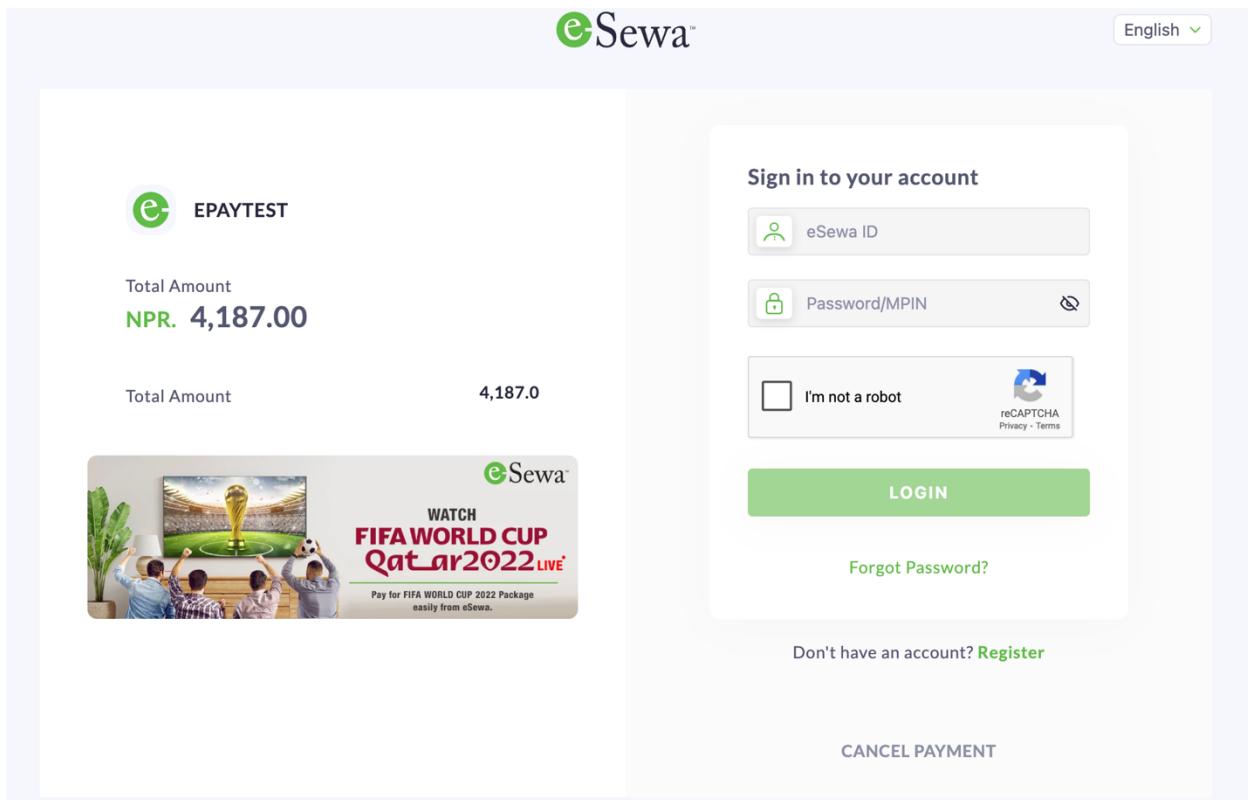


Figure 36:EsewaGateway

Tutor

What would you like to learn?

Help Become a Tutor

Back Mathematics

Active filters: Mathematics

3 tutors found

Manoj Shrestha

★ • Mathematics

📍 Kathmandu

🕒 Offline

Rs. 200

[View More](#)

Pratik Bashyal

★ • Mathematics

📍 Dharan

🕒 Offline

Rs. 150

[View More](#)

Rameshwor Yadav

★ • Mathematics

📍 Pokhara

🕒 Both

Rs. 300

[View More](#)

[Load More Tutors](#)

Figure 37:SearchPage

Join 10,000+ Expert Tutors

Become a tutor, share your passion!

TutorFinder is the leading tutoring platform to learn and teach anything you want. Join our community today!

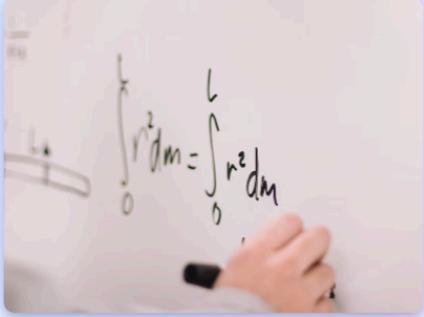
Flexible Schedule Set Your Rates Global Reach

Create your profile

Sign up now

By signing up, you agree to our Terms of Service and Privacy Policy.

Join the TutorFinder Community



Share your passion!

Join thousands of expert tutors on TutorFinder. By sharing your unique skills and passion daily, you can inspire students and offer meaningful learning experiences that go far beyond traditional lessons.

How to become a TutorFinder?



Step 01

Create your teaching account for free

Sign up in minutes and create your tutor profile. Add your expertise, set your availability, and showcase your teaching style.



Step 02

Set your teaching conditions

Choose your subjects, set your hourly rates, and define your preferred teaching methods. You're in complete control.

Figure 38:TutorSignupPage

Tutor Registration
Join our community of educators

1 2

Create Your Tutor Profile

Share your expertise and connect with students worldwide

Personal Information

Full Name *

Email Address *

Mobile Number *

+977

Gender *

Select Gender

Location *

Butwal

Figure 39:TutorFormPage

Contact List Booking List Reviews

Join 10,000+ Expert Tutors

Become a tutor, share your passion!

TutorFinder is the leading tutoring platform to learn and teach anything you want. Join our community today!

Flexible Schedule Set Your Rates Global Reach

Join the TutorFinder Community

Figure 40:TutorLandingPage

The screenshot shows the 'Contact List' section of a tutoring platform. At the top, there's a navigation bar with tabs for 'Contact List', 'Booking List', and 'Reviews'. Below the navigation is a header with a 'Tutor' icon and a purple 'Inbox' button. The main title 'My Contact List' is displayed prominently. A subtitle below it reads 'Manage all your student inquiries and messages in one organized place'. A summary card on the left shows 'Total Messages' (2) and 'Student inquiries'. On the right, a message from a user named 'User' is shown, with a green profile picture and three small icons (envelope, phone, location). The message content is 'Hello sir i have some issue'. To the right of the message are two buttons: a blue eye icon and a red trash bin icon.

Figure 41: ContactList

The screenshot shows the 'Booking List' section of the platform. The top navigation bar includes 'Contact List', 'Booking List' (which is highlighted in green), and 'Reviews'. The main title 'My Booking List' is centered above a subtitle 'Track and manage all your tutoring sessions in one beautiful place'. A summary card on the left shows 'Total Bookings' (3) and 'Active sessions'. Below this, a booking for 'Sagar Adhikari' is listed, featuring a profile picture and contact information: email (sagarcantri@gmail.com), phone number (9812345670), and location (Butwal). Three details boxes are shown: 'Session Period' (From: 7/21/2025, To: 7/21/2025), 'Session Time' (01:32), and 'Status' (Active Booking).

Figure 42: BookingList

The screenshot shows the 'My Reviews' section of a platform. At the top, there are three summary statistics: 'Total Reviews' (2), 'Filtered Results' (2), and 'Avg Characters' (23). Below these are two review cards. Each card includes a user icon (purple circle with 'A'), the name 'Anonymous', the date 'July 15, 2025', a 'Review Message' field containing the text, and a 'Delete' button.

Total Reviews	Filtered Results	Avg Characters
2	2	23

Review 1:
Anonymous
July 15, 2025
Review Message: Nice explanation by sir
Avg Characters: 24
Delete

Review 2:
Anonymous
July 15, 2025
Review Message: Sir teaches very well
Avg Characters: 21
Delete

Figure 43: ReviewPage

The screenshot shows the 'StudentHelpPage'. At the top, there is a search bar with the placeholder 'What would you like to learn?' and a 'Help' link. Below the search bar is a large blue circular icon with a question mark. The main heading is 'How can we help you?'. A sub-instruction says 'Search common questions, instructions, or tips for using the platform'. There is another search bar below this with the placeholder 'Search help articles...'. Below the search bars are two buttons: 'Students' (blue) and 'Tutors' (grey). Three cards are displayed below: 'Help Articles' (6), 'Search Results' (6), and 'Categories' (5). A 'Getting Started' section features a card titled 'How to find a tutor?' with a 'Getting Started' link and a right-pointing arrow.

What would you like to learn?

Help

Become a Tutor

?

How can we help you?

Search common questions, instructions, or tips for using the platform

Search help articles...

Students

Tutors

6 Help Articles

6 Search Results

5 Categories

Getting Started

How to find a tutor?

Getting Started >

Figure 44: StudentHelpPage

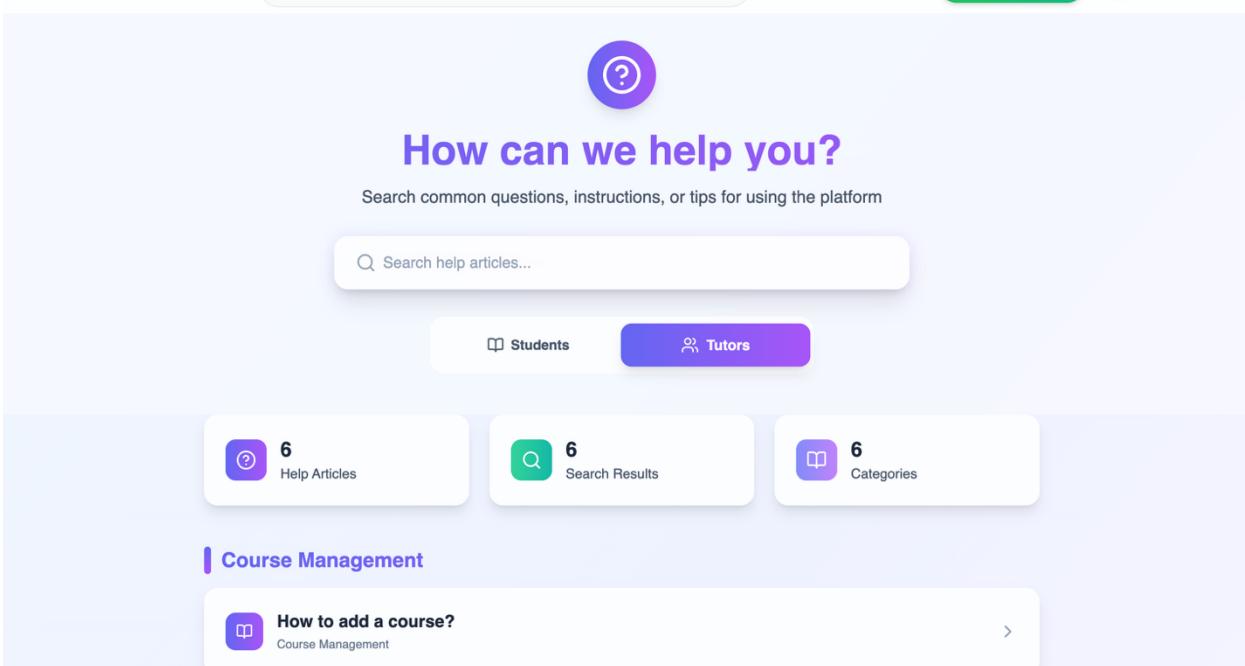


Figure 45:TutorHelpPage

The screenshot shows the 'MyProfilePage'. At the top, there's a navigation bar with 'Contact List', 'Booking List', 'Reviews', a help icon, and a user profile icon. The main title is 'My Profile', with a subtitle 'Manage your personal information and preferences'. The page is divided into sections: 'General Information' (containing fields for Full Name, Mobile Number, Email Address, and Location, with a 'Verified Tutor' badge), 'Profile Photo' (showing a placeholder image of a person at a chalkboard, with a 'Photo Locked' message), and a 'Danger Zone' (warning about account deletion and a red 'Delete Account' button). A 'Edit Profile' button is located at the bottom left.

Figure 46:MyProfilePage

Your Learning Journey

My Favorite Tutors

Keep track of the tutors who inspire you most. Your personalized collection of learning partners.

Total Favorites 3

Ready to Learn Start Today!

Remove All Favorites

Dhiraj Balayar

★ • Computer Science
📍 Kathmandu
🕒 Offline

Rs. [View More](#)

Manoj Sir

★ • Science
📍 Butwal
🕒 Offline

Rs. [View More](#)

Pratik Bashyal

★ • Mathematics
📍 Dharan
🕒 Offline

Rs. [View More](#)

Figure 47:FavoritePage