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CHAPTER 1:

INDRODUCTION

1.1 Introduction

MeroTeacher is an online learning management system that provides learners with access to educational content, resources, and tools through digital devices such as computers, tablets, and smartphones. It offers a wide range of courses

and programs, from academic subjects' tuitions to quiz games and online exams. MeroTeacher is used by individuals to enhance their knowledge and skills, and they provide learners with the flexibility to learn at their own pace and on their own schedule. MeroTeacher will become more accessible and affordable for people all over the Nepal, regardless of their location and socio-economic background.

MeroTeacher will offer a variety of features and tools, such as interactive videos, live video conferencing, recorded video lectures quizzes, forums, and simulations, to enhance the learning experience. They can also use data and analytics to track and measure learner progress and provide feedback to instructors.

It will be specially design for the student who need tuition for

Here are some website eLearning platforms in Nepal

1. **My second Teacher-** This platform includes student-teacher dialogue-based videos with an immersive interface that aids in understanding.
2. **E-path-** It is a collection of digital interactive learning activities available in Nepali and English language for students from grades 1 to 8.
3. **E-Pustaklaya-**It is an education-focused free and open digital library. This platform includes adult and children's literature in Nepali, English, and other languages, as well as books and materials on various art forms.
4. **Neema Acaddemy-** This platform includes course content ranging from elementary to secondary school. It can track your progress in an enrolled class, save your notes, and create a study plan based on your needs.

5. **Mero School**-The website gives a huge array of academic options to students from conventional to contemporary studies.
6. **Midas eClass**- It provides students with a broad range of curriculum-based materials. Midas eClass has its own sets of animated videos which makes the students' learning experience more enjoyable.
7. **Kullabs**- It is a knowledge-sharing portal for both teachers and students. Kullabs' key goal is to make knowledge accessible to everyone. With this goal in mind, the website is free to everyone and shares the best e-learning materials.

I am very happy to present you a proposal for an online eLearning platform MeroTeacher. My proposed eLearning platform MeroTeacher will provide education for all the student in more accessible and affordable way all over the Nepal, regardless of their location and socio-economic background.

CHAPTER 2:

PROBLEM IDENTIFICATION

2.1 Problem Identification

1. **Lack of quality content:** One of the primary problems with Nepali e-learning websites is the lack of quality content. There is a scarcity of original and relevant content, which could hamper the learning process.
2. **Limited scope and coverage:** Nepali e-learning websites are often limited in scope and coverage, which could make it challenging for students to find resources on specific topics.
3. **Lack of awareness and promotion:** Many Nepali e-learning websites struggle to promote themselves, leading to limited awareness among students and parents.
4. **Limited interactivity and feedback:** Some Nepali e-learning websites may lack interactive features, such as quizzes, forums, or assessments, which could limit students' engagement and progress tracking.
5. **Outdated teaching methods:** Some Nepali e-learning websites continue to use traditional teaching methods, such as rote learning and memorization, which may not be effective in promoting critical thinking and problem-solving skills.
6. **Limited awareness of copyright laws:** Some e-learning websites in Nepal may not have adequate knowledge or awareness of copyright laws, leading to copyright infringement and legal issues.
7. **Poorly Maintained websites:** Also, many of the websites are very poorly maintained using the websites makes the users really frustrated and go for other websites.
8. **Lack of online payment integration:** Many e-learning websites in Nepal do not have online payment integration, making it challenging for students and parents to pay for courses or subscriptions. This could be due to various reasons such as a lack of understanding of payment gateway integration, high transaction fees, lack of trust in online payment systems, or limited access to banking services.

CHAPTER 3:

OBJECTIVES

3.1 Objectives

- To improve the quality of education by providing relevant, up-to-date, and engaging content such as interactive videos, live video conferencing, recorded video lectures quizzes, forums.
- To track and measure learner progress and provide feedback to instructors and parents about their progress by conducting online exams, attendance, interaction in class etc.
- To provide the opportunities for students to collaborate with peers and experts from different backgrounds, fostering networking and knowledge-sharing opportunities.

CHAPTER 4:

METHODOLOGY

4.1 Methodology

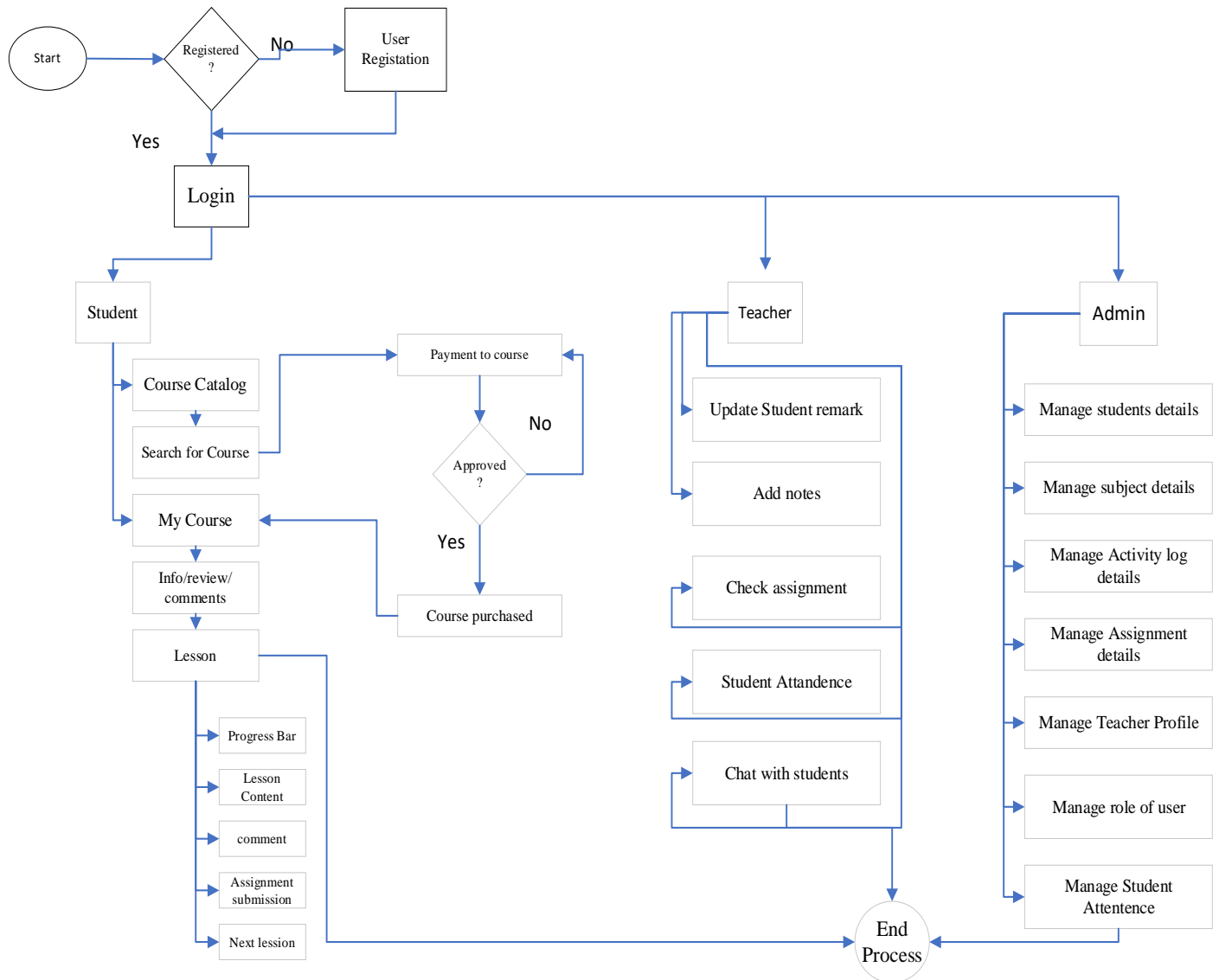


Fig: User flow diagram of MeroTeacher

The diagram starts with a Visitor who arrives at the platform's Homepage. From there, the Visitor can either browse the Course Catalogue or go to the Login Page to sign in. If the Visitor decides to register, they will be taken to the User Registration page to create an account. Once the user is logged in, they will be able to access the Course Catalogue and view Course Information. From

the Course Information page, they may choose to enroll in a course, which would lead them to a payment gateway to complete the purchase. Once enrolled, they can access course materials, such as videos, readings, and assignments, and submit their completed work. The platform may also include interactive features, such as discussion forums or chat rooms, which allow students to interact with each other and with instructors. Finally, when the course is completed, the user can receive a certificate or other recognition of completion.

If the user is a teacher, they may also have the option to create and publish their own course content, manage students, and grade assignments. The platform may also include interactive features, such as discussion forums or chat rooms, which allow students and teachers to interact with each other. Finally, when the course is completed, the user can receive a certificate or other recognition of completion.

If the user is an admin, they may have access to additional features, such as managing user accounts, creating and editing courses, managing course content and materials, managing course schedules and enrollments, and generating reports on user activity and course performance.

4.2 Tools and Techniques

1) Figma: Figma will be used to create wireframes, mockups, and high-fidelity designs for my online eLearning website. It will allow us to work together in real-time, streamline the design process, and improve communication and collaboration.

2) React.js: React.js is a JavaScript library used for building reusable UI components and it will help us to manage the user interface of an online eLearning website. It allows us to create dynamic and interactive interfaces, manage state efficiently, and simplify the development process through its component-based architecture.

3) Node.js and Express.js: Node.js and Express.js will be used to develop the back-end of my online eLearning website by handling server-side operations such as data processing, authentication, and API integration in a scalable and efficient manner.

4) MongoDB: MongoDB will be used for the development of my online eLearning website to store and manage data in a flexible, scalable, and easily accessible way, enabling efficient product management, inventory tracking, and user data management.

5) Microsoft Word: Microsoft Word will be used to document my summer project. It provides various features and tools to format, style, and organize the content of a document, including text formatting, paragraph formatting, tables, images etc.

6) Microsoft Visio: Microsoft Visio will be used for creating diagrams, flowcharts for my eLearning websites. It also includes tools for customizing and formatting diagrams, such as changing the colors and styles of shapes, adding text, and creating connections between shapes.

CHAPTER 5:

EXCEPTED OUTCOME

5.1 Excepted Outcome

- **Providing access to high-quality learning materials:** An e-learning platform website should provide access to high-quality learning materials, including videos, articles, quizzes, and assessments. This will help learners acquire knowledge and skills efficiently.
- **Enhancing learners' engagement and motivation:** An e-learning platform website should be designed to engage learners and motivate them to learn. This can be achieved through interactive features, such as gamification, social learning, and personalized learning paths.
- **Offering flexibility and convenience:** An e-learning platform website should offer learners the flexibility to learn at their own pace and convenience. This can be achieved through mobile-friendly designs, offline access, and self-paced learning modules.
- **Monitoring learners' progress and performance:** An e-learning platform website should provide instructors with tools to monitor learners' progress and performance. This will help instructors assess the effectiveness of the learning materials and adjust them accordingly.
- **Creating a community of learners:** An e-learning platform website should facilitate communication and collaboration among learners, instructors, and peers. This will help learners share their experiences, insights, and feedback and build a sense of community and support.

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