GLA UNIVERSITY

TOPIC : MINI PROJECT SYNOPSIS ON : **Community Forum Website**

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DECLARATION

We, the undersigned, hereby declare that the project titled **"Community Forum Website"** submitted to **GLA UNIVERSITY** is the original work of our team. This project has been completed by us as part of the **[**Computer Science Engineering**]**, under the guidance of **Mr. Udayveer singh**.

We confirm that the work presented in this project is our own, has not been copied from any source, and has not been submitted previously for the award of any degree, diploma, or certification at any other institution.

All sources of information used in this project have been duly acknowledged.

Anikesh Mani Tripathi
Rajat YadaV
Vikash

Acknowledgement

I would like to express my sincere gratitude to all those who supported me during the completion of this crowdfunding platform project.

First, I want to thank **Mr. Udayveer Singh** for their guidance and advice throughout the project. Their support helped me a lot in improving my work.

A special thanks goes to my friends for their unwavering support and understanding throughout this journey. Their belief in my abilities inspired me to give my best effort.

I would also like to extend my appreciation to my peers and colleagues, whose input helped me improve various aspects of the platform.

Finally, I would like to acknowledge the various resources and tools, including online tutorials, libraries, and development platforms, that facilitated the creation of this project. Without these invaluable resources, this project would not have been possible.

Thank you all for your support and encouragement!

Certificate

This is to certify that the report titled "Community Forum Website" has been successfully completed and submitted by Anikesh Mani Tripathi, Rajat Yadav, Vikash under the guidance of **Mr Udeyveer Singh**.
This report is a part of the project undertaken for GLA University during Sep - Nov. The findings, analysis, and content presented in this report are original and created with utmost dedication and professionalism.
We extend our sincere gratitude to all those who have contributed to the successful completion of this report.

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Project Title

Community Forum Website

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Statement About The Problem

A community forum website serves as a vital platform for individuals to connect, share knowledge, and seek support. It fosters collaboration and discussion, allowing users to exchange ideas and experiences on various topics. By providing a space for diverse voices, it enhances learning, builds relationships, and encourages problem-solving within the community, ultimately creating a sense of belonging and shared purpose.

Reason for selecting the topic.

Selecting a community forum website for our project is essential due to its ability to facilitate open communication and collaboration among users. It promotes knowledge sharing, fosters a sense of community, and enables real-time feedback, making it an ideal platform for gathering insights and addressing common challenges effectively.

Objective and scope of the project

Objective

The main goal of the community forum website is to enhance the people to communicate, share knowledge, to share views on different topic and many more with people who want to support their ideas.

The platform aims to provide a user-friendly experience and encourages community engagement.

Scope

The scope of the community forum website encompasses the development of a dynamic online platform that facilitates user-generated discussions, knowledge sharing, resource exchange, and community engagement across diverse topics, while ensuring a safe and inclusive environment for all participants.

Understanding Community Forum Website:

A community forum website is an online platform where individuals can engage in discussions, share knowledge, and connect with others who share similar interests or experiences.

Types of Community Forum Website:

There are several types of community forum websites, each catering to different interests and purposes. Here are some common type

1. *General Discussion Forums: These forums cover a wide range of topics, allowing users to discuss anything from current events to hobbies.*

2. *Special Interest Forums: Focused on specific topics such as technology, gaming, sports, or hobbies, these forums attract users with shared passions.*

3. *Support Forums: Designed to provide help and advice, these forums often focus on mental health, parenting, or specific medical conditions, allowing users to share experiences and support one another.*

Feasibility of the Platform:

Assessing the feasibility of a community forum website involves several key considerations:

1. **Market Demand**: Research the target audience to determine if there is sufficient interest in the topics you plan to cover. Analyze existing forums to identify gaps or opportunities for improvement.

2. **Technical Requirements**: Evaluate the technical aspects, including the platform's infrastructure, hosting needs, and the software or framework required to build and maintain the forum. Consider scalability to accommodate future growth.

3. **Monetization Strategy**: Determine how the platform will generate revenue, whether through advertising, subscription models, premium memberships, or merchandise sales. Assess the potential profitability of these options.

Methodology

1. Research and Planning

- **Market Research**: Analyze existing forums to understand user needs, preferences, and gaps in the market.

- **Target Audience Identification**: Define the demographics and interests of your potential users.

- **Feature List Development**: Outline essential features (e.g., user profiles, discussion threads, moderation tools) based on research findings.

2. Design and Prototyping

- **Wireframing**: Create wireframes to visualize the layout and structure of the forum.

- **User Experience (UX) Design**: Focus on usability, ensuring intuitive navigation and accessibility.

- **User Interface (UI) Design**: Develop a visually appealing design that aligns with the community's branding.

3. Technical Development

- **Platform Selection**: Choose a suitable platform or content management system (CMS) for building the forum (e.g., WordPress with BuddyPress, Discourse, phpBB).

- **Development**: Code the website, incorporating the planned features, ensuring mobile responsiveness and fast loading times.

- **Database Setup**: Design and implement a database to manage user data, posts, and interactions.

4. Testing

- **Quality Assurance (QA)**: Conduct thorough testing for functionality, usability, and performance. Identify and fix bugs.

- **User Testing**: Involve a small group of users to test the forum and provide feedback on usability and features.

5. Launch

- **Pre-Launch Marketing**: Create buzz around the forum through social media, email newsletters, and partnerships.

- **Soft Launch**: Consider a beta launch with a limited audience to gather initial feedback and make adjustments.

- **Official Launch**: Open the forum to the public with a clear announcement and promotional activities.

6. Community Building

- **Engagement Strategies**: Implement strategies to encourage user participation, such as contests, polls, and regular content updates.

- **Moderation Policies**: Establish clear guidelines for behavior and content, appoint moderators, and create a reporting system for inappropriate content.

- **Feedback Loop**: Regularly solicit user feedback to understand their needs and improve the platform.

7. Maintenance and Growth

- **Ongoing Support**: Provide technical support and address user inquiries promptly.

- **Content Management**: Regularly update the forum with new content, features, and announcements to keep users engaged.

- **Analytics and Monitoring**: Use analytics tools to track user engagement, growth, and behavior, adjusting strategies as needed.

8. Evaluation and Iteration

- **Performance Review**: Periodically assess the forum's performance against key metrics (e.g., user growth, engagement rates).

- **Continuous Improvement**: Iterate on features and community practices based on user feedback and changing needs.

By following this methodology, we can create a community forum website that meets the needs of its users, fosters engagement, and adapts to the evolving landscape of online communities.

Hardware & Software to be used

Hardware Structuring and styling the web pages.

Frontend Framework : HTML, CSS and JavaScript.

JavaScript: For adding interactivity to the platform multiple script.

Backend: Nodejs, Express JS.

Database: MySQL

Development Tools:

Web Development Frameworks: Bootstrap, UI verse, google font, Undraw for clean and pragmatic design.

Frontend Development Tools: HTML/CSS/JavaScript: The core technologies for building the front end of your forum. HTML for structure, CSS for styling, and JavaScript for interactivity.

Database Management Systems: MySQL Workbench A widely used relational database management system for storing user data, posts, and interactions.

Web Hosting Services: Amazon Web server & Netlify(for testing).

Version Control and Collaboration: Git A version control system for tracking changes in your codebase. Platforms like GitHub or GitLab can be used for collaboration and code management.

The choice of tools and technologies will depend on your specific requirements, technical expertise, and budget

Future Work of the Project

When planning the future work for a community forum website, it's essential to outline a clear roadmap that addresses enhancements, user engagement, and sustainability. Here are several key areas to focus on for the future development of your project:

1. Feature Enhancements

- Advanced Search Functionality: Implement a robust search feature that allows users to find content easily, including filters for topics, tags, and dates.

- Custom User Profiles: Allow users to personalize their profiles with avatars, bios, and links to social media, enhancing community interaction.

- Gamification: Introduce badges, points, and leaderboards to encourage user participation and reward contributions.

- Content Moderation Tools: Develop advanced moderation features, including AI-driven content filtering and automated moderation tools to maintain community standards.

2. User Engagement Strategies

- Regular Content Updates: Establish a content calendar for regular blog posts, tutorials, or community highlights to keep users engaged and informed.

- Feedback Mechanisms: Implement regular surveys and feedback forms to gather user input on new features and overall satisfaction.

3. Community Building Initiatives

- Mentorship Programs: Create programs where experienced members can mentor newcomers, fostering a supportive community culture.

- Thematic Groups: Introduce sub-forums or groups focused on specific interests or topics to cater to niche audiences within your community.

- Partnerships and Collaborations: Collaborate with influencers or organizations relevant to your community to broaden reach and increase engagement.

4. Technical Improvements

- Performance Optimization: Continuously monitor and optimize the website for speed and efficiency, ensuring a smooth user experience.

- Scalability Planning: Prepare the infrastructure to handle increased traffic and user load, including load balancing and database optimization.

- Security Enhancements: Regularly update security protocols and conduct audits to protect user data and maintain trust.

5. Community Guidelines and Policies

- Regular Review of Guidelines: Periodically review and update community guidelines to ensure they remain relevant and effective.

- Transparency Initiatives: Maintain transparency with users regarding policy changes, moderation actions, and community decisions.

6. Long-term Vision

- Expansion of Topics: Consider expanding the scope of the forum to include additional topics or interests based on user feedback and trends.

- Internationalization: If appropriate, explore options for multilingual support to reach a broader audience.

- Sustainability Practices: Implement practices that promote the long-term sustainability of the community, including ethical guidelines for partnerships and user engagement.

Conclusion

The future work of a community forum website should focus on enhancing user experience, fostering community engagement, and ensuring the platform's sustainability and growth. By continuously adapting to user needs and industry trends, you can create a vibrant and thriving online community that remains relevant and valuable to its members. Regularly revisiting and updating your roadmap will help you stay on track and responsive to changing demands.
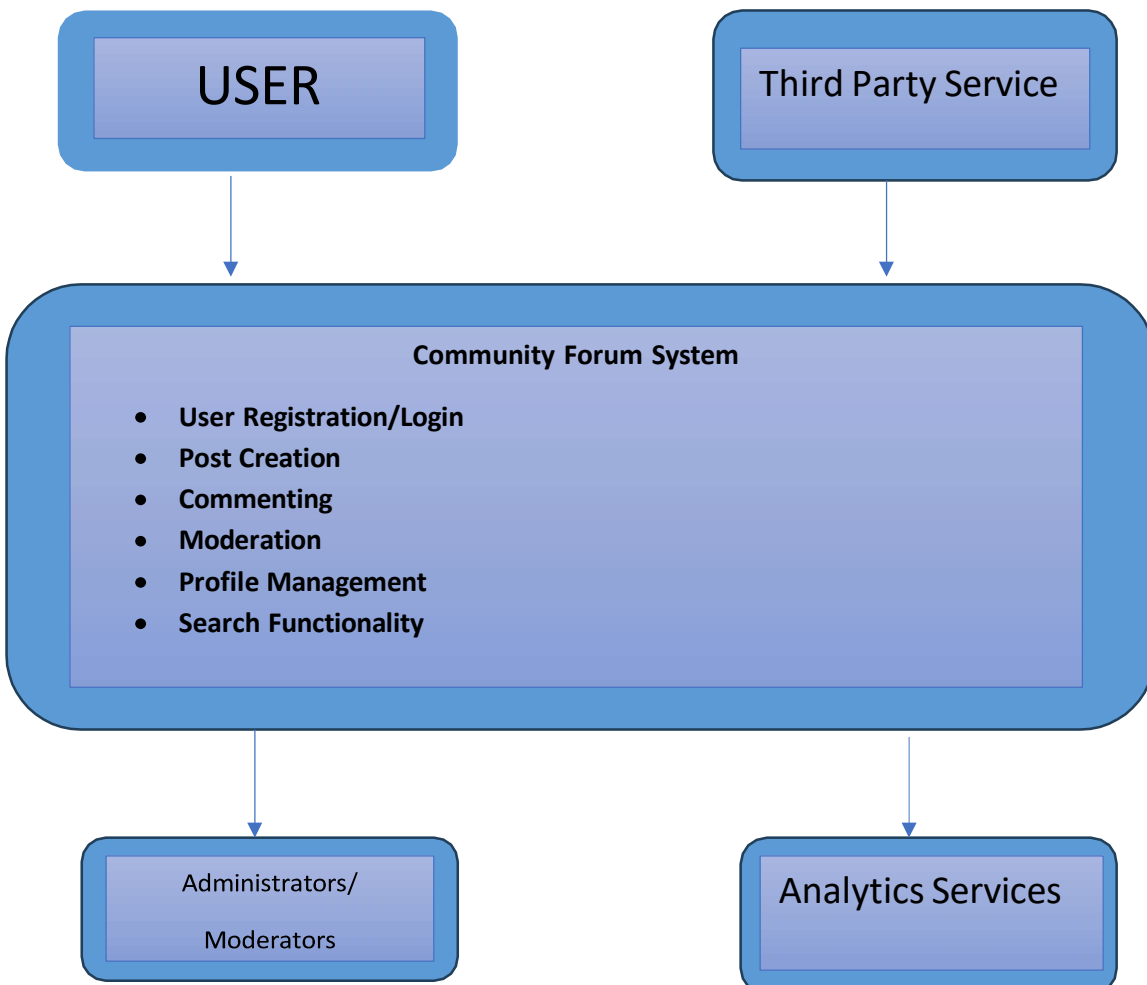
Creating a Data Flow Diagram (DFD) for a community forum website across three levels involves detailing the system's processes and data flows at increasing levels of granularity. Below, I will provide a structured approach to the DFD, outlining Level 0, Level 1, and Level 2 diagrams.

Level 0 DFD (Context Diagram)

The Level 0 DFD provides a high-level overview of the community forum system, showing the main processes, external entities, and data flows.

Level 0 DFD Components

- **External Entities**:
    - Users
    - Administrators/Moderators
    - Third-Party Services (e.g., social media login, analytics)
- **Main Process**:
    - Community Forum System

USER

Third Party Service

Community Forum System

- **User Registration/Login**
- **Post Creation**
- **Commenting**
- **Moderation**
- **Profile Management**
- **Search Functionality**

Administrators/
Moderators

Analytics Services

Level 1 DFD

The Level 1 DFD breaks down the main process into its sub-processes, showing how data flows between them and the data stores involved.

Level 1 DFD Components

- **Processes**:

    1. User Registration/Login

    2. Post Management

    3. Comment Management

    4. Moderation

    5. Profile Management

    6. Search Functionality

- **Data Stores**:

    - User Database

    - Posts Database

    - Comments Database

    - Moderation Logs

Level 2 DFD

The Level 2 DFD provides a more detailed view of one or more of the processes from Level 1. For this example, we will detail the **Post Management** and **Comment Management** processes.

Level 2 DFD Components for Post Management

Processes:

Create Post

Edit Post

Delete Post

View Post

<u>References</u>

Online: For Document help { https://developer.mozilla.org/en-US/ }
Front end: : https://uiverse.io/
For color design : https://cssgradient.io/

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="/assets/css/general.css" />
    <link rel="stylesheet" href="/assets/css/header.css" />
    <link rel="stylesheet" href="/assets/css/subscribe.css" />
    <link rel="stylesheet" href="/assets/css/footer.css" />
    <link rel="shortcut icon" href="/assets/img/Forum logo.jpg" type="image/x-icon">
    <title>join Know</title>
  </head>
  <body>
```

```css
@import url('https://fonts.googleapis.com/css2?family=Montserrat:wght@300;400;500;600;700&display=swap');

*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Montserrat', sans-serif;
}

body{
    background-image: url("/assets/img/Anime-Desktop-Wallpaper.jpg");
    background-position: center;
    display: flex;
    align-items: center;
    justify-content: center;
    flex-direction: column;
    height: 100vh;
    background-repeat: no-repeat;
    background-size: cover;
}

.container{
    /* background-color: #fff; */
    /* background-image: url(/assets/img/Forum\ logo.jpg); */
    backdrop-filter: blur(10px);
    background-position: center;
    background-repeat: no-repeat;
    background-size: cover;
    border-radius: 30px;
    box-shadow: 0 5px 15px rgba(0, 0, 0, 0.35);
    position: relative;
    overflow: hidden;
    width: 600px;
    max-width: 100%;
    min-height: 390px;
}
```
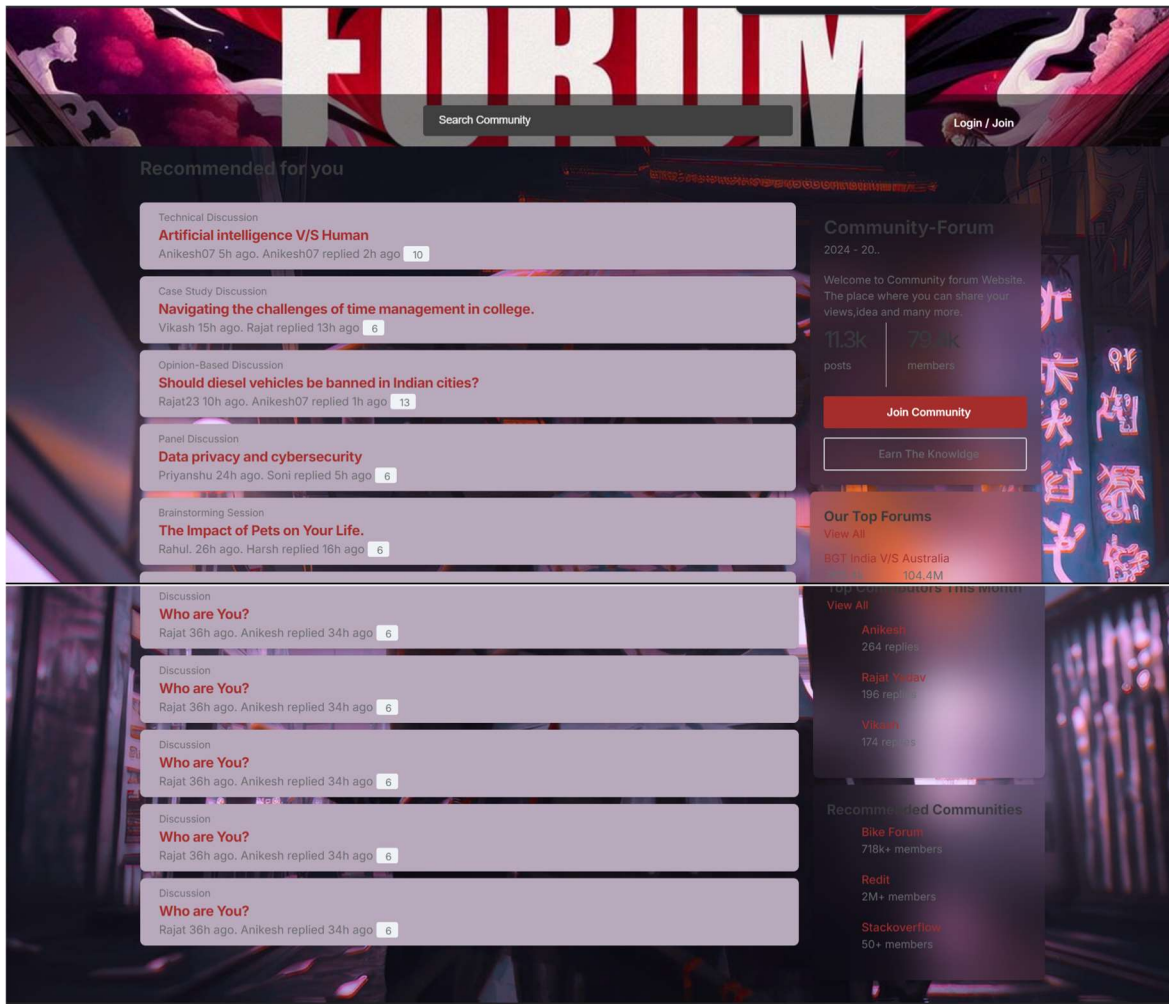
```html
<!-- header  -->
<header class="header" id="header">
  <div class="row">
    <div class="container">
      <div class="header-content">
        <div class="logo">
          <a href="index.html"
          ></a>
        </div>
        <div class="nav-search">
          <div class="form-group">
            <input type="text" placeholder="Search Community" />
            <i class="fa-solid fa-magnifying-glass"></i>
          </div>
        </div>
        <div class="nav-group">
          <ul>
            <li>
              <a href="#"><i class="fa-solid fa-comment"></i></a>
            </li>
            <li>
              <a href="#"><i class="fa-solid fa-list-ul"></i></a>
            </li>
            <li>
              <a href="#">
                <i class="fa-solid fa-user"></i>
                <!-- <span>login / join</span> -->
              </a>
            </li>
            <li>
              <a href="#"><i class="fa-solid fa-ellipsis-vertical"></i></a>
            </li>
          </ul>
        </div>
      </div>
    </div>
  </div>
</header>
```
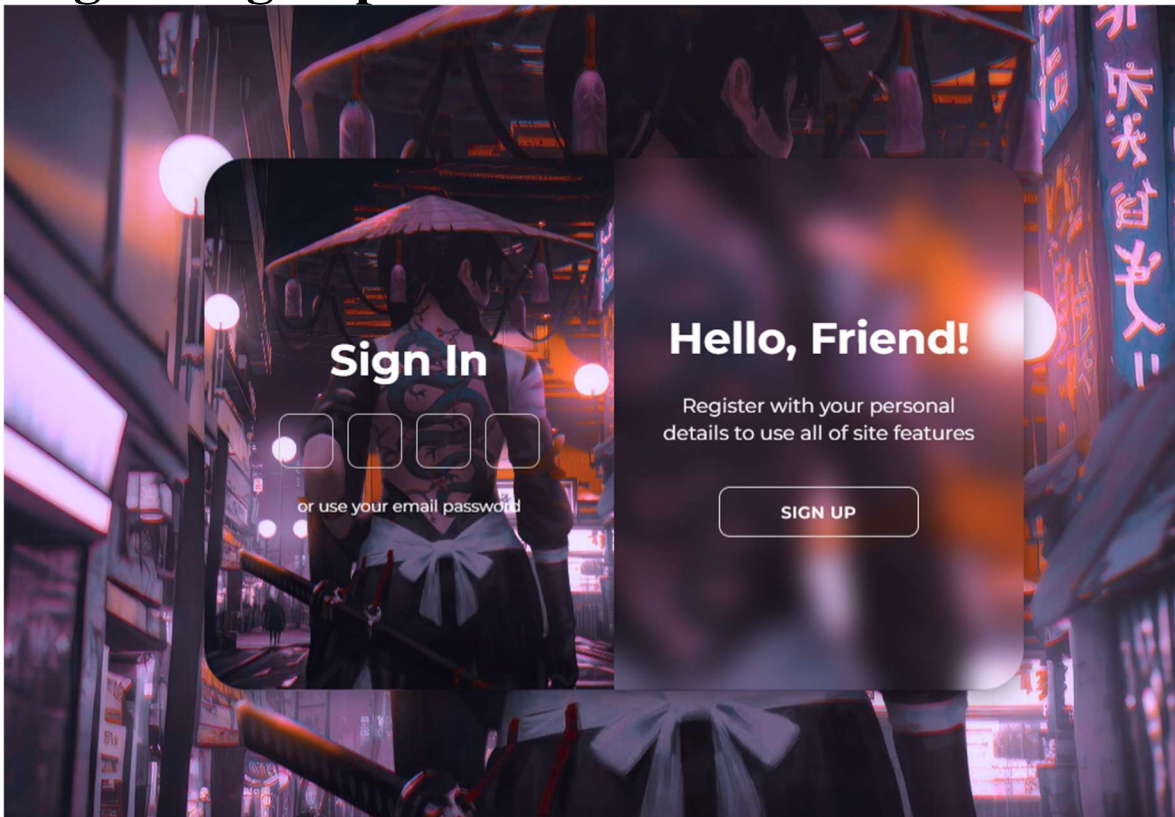
```html
<!-- Main  -->
<main>
  <section class="subscribe">
    <div class="container">
      <h3>
        Help support the growth of Honda Shadow Forums and get some great
        features in return
      </h3>
      <div class="row">
        <div class="box">
          <h2>Basic membership</h2>
          <p class="free">Free</p>
          <a href="register.html" class="btn btn-white">Sign up for free</a>
          <ul class="privileges">
            <li>Includes banner ads</li>
            <li>Access to public forums</li>
          </ul>
        </div>
        <div class="box">
          <h2>Plus membership</h2>
          <div class="prices">
            <ul>
              <li class="active" data-price="monthly">Monthly</li>
              <li data-price="yearly">Yearly <span>Save 19%</span></li>
            </ul>
            <p class="price monthly active">$4.99 USD per month</p>
            <p class="price yearly"><s>$59.88 USD</s> $49.99 USD per 12 months</p>
          </div>
          <a href="#" class="btn btn-red">Sign up for plus</a>
          <ul class="privileges">
            <li>
              <i class="fa-solid fa-check"></i> Banner ad-free browsing
            </li>
            <li>
              <i class="fa-solid fa-check"></i> Access to premium forums
            </li>
```

Main Frontend UI

Login / Sign up

Sign In

or use your email password

Hello, Friend!

Register with your personal details to use all of site features

SIGN UP

Support Page

Search Community

Help support the growth of Community Forums and get some great features in return

Basic membership

Free

Sign up for free

Includes banner ads
Access to public forums

Plus membership

Monthly | Yearly Save 19%

$4.99 USD per month

Sign up for plus

Banner ad-free browsing
Access to premium forums
Plus badge

Renews every month

Frequently asked Question

Frequently asked questions

What's included in Community Forums Plus?

Forums Plus includes banner ad-free browsing, access to premium forums, and a supporter badge.

How does my membership support Community Forums?

Your Plus membership contributes to operations, maintenance, and upgrades for Community Forums.

What are my payment options?

We offer two payment options: credit card and PayPal. Subscriptions automatically renew at the end of your term.

What's the cancellation policy?

You can cancel your Plus membership at any time; however, we do not provide refunds. Once you cancel, your Plus benefits continue until the end of your subscription period, and your subscription will not automatically renew.

Got questions about subscription membership?

Get in touch with us, we'd love to help you out

Contact Us

Backend DataBase

```
1 ● SELECT * FROM nodejs.loginuser;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

user_id	user_name	user_pass
1	anikeshmanitripathi23@gmail.com	password
2	anikeshmanitripathi9@gmail.com	pass
3	anikesh.com	pass123
4	anikei9@gmail.com	pass
NULL	NULL	NULL