

Introduction

In the evolving landscape of digital communication, blogging has established itself as one of the most influential and personal ways to share information. Individuals, professionals, educators, and organizations use blogs to express opinions, provide tutorials, publish research, or engage with a community. With the rise of user-generated content, the demand for platforms that offer simplicity, aesthetics, and responsiveness has significantly increased.

To meet this growing need, we have developed a **static blog website named "Q/Hub"**, designed with beginner-friendly web development technologies – HTML and CSS. The website focuses on simplicity and clarity, offering an attractive platform to host and present articles. The design includes interactive article cards, a responsive layout, a consistent navigation experience, and visually appealing styles.

While this is a static implementation, the structure of the website has been planned in a way that makes it easy to evolve into a fully dynamic blog platform in the future.

Objective

The core objectives of this project are as follows:

- To build a basic and elegant blogging website using only frontend technologies.
- To design a clean and responsive UI that looks consistent across various screen sizes.
- To provide a structure for displaying articles that include metadata like title, author, and date.
- To allow future enhancements like dynamic post creation, user authentication, and real-time commenting.
- To explore and practice modern HTML5 semantics and CSS3 styling capabilities.

Technologies Used

The project utilizes the following web development technologies:

HTML5 (HyperText Markup Language)

- Serves as the foundation of the website.
- Uses semantic tags like `<nav>`, `<section>`, `<article>`, `<footer>`, and `<form>`.
- Improves accessibility, SEO, and readability of the source code.

CSS3 (Cascading Style Sheets)

- Used for all visual styling and layout control.
- Implements design features such as card layouts, shadows, hover effects, transitions, font styling, and media queries.
- Custom styling is done through three separate stylesheets:
 - `style.css`: Handles core layout and component designs.
 - `utils.css`: Contains utility classes for quick formatting and layout adjustments.

- mobile.css: Manages responsive design elements using media queries for small-screen devices.

Images and Media

- Background and article images are locally sourced to enhance the visual appeal.
- Images are styled with CSS for transparency, overlay, and proper alignment.

Features

The Q/Hub blog site incorporates several useful and well-designed features:

Navigation Bar

- Includes branding and links to major sections: Home, About, and Contact.
- Integrated search form allows users to input keywords.

Search Bar

- Allows basic input for searching articles.
- Currently static, but prepared for integration with a backend query system.

Article Cards

- Displayed in a grid layout.
- Each article card contains:
 - A thumbnail image.
 - Article title.
 - Author's name.
 - Date of publication.

Background & Visual Effects

- Pages like Contact use a background image overlay with semi-transparent layers.
- Typography and spacing ensure high readability.

Mobile Responsiveness

- Layout adjusts dynamically for small screens using media queries in mobile.css.
- Navigation bar and articles stack vertically for readability on mobile devices.

Footer Section

- Simple footer with attribution and source references.

Working Flow

The structure and operation of the website follow a modular and logical flow:

1. **User lands on the Home Page:**
 - They see a hero section (Q/Hub banner) and a list of blog previews.
2. **Navigation:**
 - The top bar remains fixed or accessible for navigating between pages.
3. **Reading Articles:**
 - Clicking an article takes the user to a placeholder detailed blog page (e.g., blog.html), ready for dynamic expansion.
4. **Search Interaction:**
 - User inputs a search term (currently static, but can be made functional via JS or backend integration).
5. **Contact Page:**
 - Styled with background overlays; visually distinct to represent a form page.
6. **All Styling via CSS:**
 - No JavaScript is used, focusing purely on frontend structure and design best practices.

Future Scope

Though simple in its current form, the project holds vast potential for enhancement. Here are key areas for future development:

Backend Integration

- Implement backend frameworks like:
 - **Node.js + Express**
 - **PHP + MySQL**
 - **Python (Django or Flask)**

Database Connectivity

- Use a database (MySQL, MongoDB, Firebase) to store:
 - Blog posts
 - User accounts
 - Comments and likes
 - Tags and categories

User Authentication

- Implement secure login and registration systems.
- Differentiate access levels (admin, editor, reader).

Comment System

- Readers can engage with content via comments.
- Add real-time features using technologies like Firebase or WebSockets.

Post Management Panel

- Admin can create, update, or delete posts through a dashboard.
- Support for rich text, media uploads, and tags.

Analytics & SEO

- Track site visits and engagement.
- Optimize page content and structure for search engines.

Multilingual Support

- Allow users to switch between languages using translation libraries or i18n frameworks.

Progressive Web App (PWA)

- Make the site installable and functional offline using Service Workers and Web App Manifest.

Conclusion

The development of the **Q/Hub blog website** marks the beginning of a journey into web design and content publishing. Built entirely with HTML5 and CSS3, it offers a clean and responsive blogging interface that is visually appealing and user-friendly. Despite being static, its architecture is scalable and serves as a strong foundation for future enhancements such as content management systems, user interaction, and database-driven posts.

The project not only achieves its initial goal of creating a basic blogging site but also demonstrates the potential to evolve into a fully dynamic and feature-rich platform. It serves as an excellent learning experience for frontend development and opens the door for future full-stack web application development.

HTML FILES

INDEX.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="css/utils.css">
    <link rel="stylesheet" href="css/style.css">
    <link rel="stylesheet" href="css/mobile.css">

    <title>Simple Blog</title>
</head>

<body>
    <nav class="navigation max-width-1 m-auto">
        <div class="nav-Left"><span></span>
            <ul>
                <li><a href="/">Home</a></li>
                <li><a href="/">About</a></li>
                <li><a href="/contact.html">Contact</a></li>
            </ul>
        </div>
        <div class="nav-right">
            <form action="/search.html" method="get">
                <input class="form-input" type="text" name="query" placeholder="Article search">
                <button class="btn">search</button>
            </form>
        </div>
    </nav>
    <div class="max-width-1 m-auto">
        <hr>
    </div>
    <div class="content max-width-1 m-auto my-2">
```

```

<div class="left-content">
    <h1>Welcome to Q/Hub</h1>
    <p>Here you get different types of article to enhance your knowledge </p>
    <p>At Q-HUB, we believe that every thought, story, and experience has the power to inspire. Whether you're here for insightful articles, creative musings, or practical advice, you've found your space. Dive into engaging discussions, explore fresh perspectives, and be part of a community that thrives on curiosity and passion.</p>
    </p>
</div>

<div class="right-content">
    
</div>
</div>

<div class="max-width-1 m-auto">
    <hr>
</div>

<div class="home-articles max-width-1 m-auto font2">

    <h2>Featured Articles</h2>
    <div class="home-article">
        <div class="home-article-img"></div>
        <div class="home-article-content font1">
            <a href="https://www.techspot.com/news/107781-windows-remote-desktop-protocol-contains-login-backdoor-microsoft.html">
                <h3>Windows Remote Desktop Protocol contains a login backdoor Microsoft refuses to fix.</h3>
                </a>
            <div>Author: Alfonso Maruccia</div>
            <span>Publish date : may 2</span>
        </div>
    </div>
    <div class="home-article">
        <div class="home-article-img"></div>
        <div class="home-article-content font1">
            <a href="https://www.techspot.com/news/107787-asus-tuf-gaming-t500-mobile-cpu-powered-desktop.html">
                <h3>The Asus TUF Gaming T500 is a mobile CPU-powered desktop for better thermals</h3>
                </a>
            <div>Author: Zo Ahmed</div>
            <span>Publish date : may 3</span>
        </div>
    </div>

```

```
</div>

<div class="home-article">
    <div class="home-article-img"></div>
    <div class="home-article-content font1">
        <a href="https://www.techspot.com/news/107779-half-life-3-reportedly-playable-end-end-possibly.html">
            <h3>Half-Life 3 reportedly playable end-to-end, possibly launching this year.</h3>
        </a>
        <div>Author: Daniel Sims</div>
        <span>Publish date : may 3</span>
    </div>
</div>

<div class="home-article">
    <div class="home-article-img"></div>
    <div class="home-article-content font1">
        <a href="https://www.techspot.com/news/107802-astronomers-spot-possible-planet-nine-data-spanning-23.html">
            <h3>Astronomers spot possible Planet Nine in data spanning 23 years.</h3>
        </a>
        <div>Author :Skye Jacobs</div>
        <span>Publish date : may 6 </span>
    </div>
</div>

</div>

<div class="footer max m-auto">
    Copyright © Q/Hub.com <a href="https://www.vecteezy.com/">Vector Images</a>
</div>
</body>

</html>
```

SEARCH.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="css/utils.css">
    <link rel="stylesheet" href="css/style.css">
    <link rel="stylesheet" href="css/mobile.css">

    <title>Simple Blog</title>
</head>

<body>
    <nav class="navigation max-width-1 m-auto">
        <div class="nav-Left"><span></span>
            <ul>
                <li><a href="/">Home</a></li>
                <li><a href="/">About</a></li>
                <li><a href="/contact.html">Contact</a></li>
            </ul>
        </div>
        <div class="nav-right">
            <form action="/search.html" method="get">
                <input class="form-input" type="text" name="query" placeholder="Article search">
                <button class="btn">search</button>
            </form>
        </div>
    </nav>
    <div class="max-width-1 m-auto">
        <hr>
    </div>

    <div class="home-articles max-width-1 m-auto font2">
```

```
<h2 >Related content </h2>
<div class="home-article">
  <div class="home-article-img"></div>
  <div class="home-article-content font1">
    <a href="/blog.html">
      <h3>Lorem ipsum dolor sit amet.</h3>
    </a>
    <span>Author</span>
    <span>24 April</span>
  </div>
</div>
<div class="home-article">
  <div class="home-article-img"></div>
  <div class="home-article-content font1">
    <a href="/blog.html">
      <h3>Lorem ipsum dolor sit amet.</h3>
    </a>
    <span>Author</span>
    <span>24 April</span>
  </div>
</div>
<div class="home-article">
  <div class="home-article-img"></div>
  <div class="home-article-content font1">
    <a href="/blog.html">
      <h3>Lorem ipsum dolor sit amet.</h3>
    </a>
    <span>Author</span>
    <span>24 April</span>
  </div>
</div>
<div class="home-article">
  <div class="home-article-img"></div>
  <div class="home-article-content font1">
    <a href="/blog.html">
      <h3>Lorem ipsum dolor sit amet.</h3>
    </a>
  </div>
</div>
```

```
</a>
<span>Author</span>
<span>24 April</span>
</div>
</div>
<div class="home-article">
<div class="home-article-img"></div>
<div class="home-article-content font1">
<a href="/blog.html">
    <h3>Lorem ipsum dolor sit amet.</h3>
</a>
<span>Author</span>
<span>24 April</span>
</div>
</div>
</div>

<div class="footer max m-auto">
    Copyright © QHub.com <a href="https://www.vecteezy.com/">Vector Images</a>
</div>
</body>

</html>
```

CONTACT.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="css/utils.css">
    <link rel="stylesheet" href="css/style.css">
    <link rel="stylesheet" href="css/contact.css">
    <link rel="stylesheet" href="css/mobile.css">

    <title>Contact page</title>
</head>

<body>
    <nav class="navigation max-width-1 m-auto">
        <div class="nav-Left"><span></span>
            <ul>
                <li><a href="/">Home</a></li>
                <li><a href="/">About</a></li>
                <li><a href="contact.html ">Contact</a></li>
            </ul>
        </div>
        <div class="nav-right">
            <form action="/search.html" method="get">
                <input class="form-input" type="text" name="query" placeholder="Article search">
                <button class="btn">search</button>
            </form>
        </div>
    </nav>
    <div class="max-width-1 m-auto">
        <hr>
    </div>
    <div class="contact-content ">
```

```

<div class=" max-width-1 m-auto font1">
    <h2>Feel free to contact us</h2>
    <div class="contactform">
        <div class="form-box">
            <input type="text" placeholder="Enter Your Name">
        </div>
        <div class="form-box">
            <input type="text" placeholder="Enter Your Name Email ID">
        </div>
        <div class="form-box">
            <input type="text" placeholder="Enter Your Phone Number ">
        </div>
        <div class="form-box">
            <textarea name="" id="" cols="30" rows="10" >How may i help you?</textarea>
        </div>
        <div class="form-box">
            <button class="btn">Submit</button>
        </div>

    </div>
</div>
</div>

<div class="footer max m-auto">
    Copyright © Q/Hub.com <a href="https://www.vecteezy.com/">Vector Images</a>
</div>
</body>

</html>

```

CSS FILES

UTILS.CSS

```
@import
url('https://fonts.googleapis.com/css2?family=Baloo+Bhai+2:wght@400..800&family=Baloo+Bhaijaan+2:wght@400..800
&family=Roboto:ital,wght@0,100..900;1,100..900&display=swap');

@import
url('https://fonts.googleapis.com/css2?family=Baloo+Bhai+2:wght@400..800&family=Baloo+Bhaijaan+2:wght@400..800
&display=swap');

:root {
    --main-bg-color: brown;
    --font1:"Baloo Bhaijaan 2", sans-serif;
    --font2: "Roboto", sans-serif;
}

.max-width-1 {
    max-width: 70vw;
}

.max-width-2 {
    max-width: 60vw;
}

.m-auto {
    margin:auto;
}

.my-2{
    margin-bottom: 12px;
    margin-top: 12px;
}

.btn {padding: 0px 10px;
    border: 2px solid black;
    border-radius: 10px;
    font-family: var(--font1);
    cursor: pointer;
    transition: all 0.3s ease-in-out;
```

```
}
```

```
.btn:hover{
```

```
    color: white;
```

```
    background: var(--main-bg-color);
```

```
}
```

```
.font1 { font-family: var(--font1);
```

```
}
```

```
.font2{
```

```
    font-family: var(--font2);
```

```
}
```

```
.form-input{
```

```
    padding: 0px 2px;
```

```
    padding-top: 3px;
```

```
    font-size: 15px;
```

```
    border: 2px solid rgb(3, 3, 3);
```

```
    border-radius: 5px;
```

```
    margin: 0px 14px;
```

```
    font-family: var(--font1);
```

```
}
```

```
.form-box input, textarea{
```

```
    width: 38vw;
```

```
    padding: 2px 6px;
```

```
    margin: 4px 0px;
```

```
    font-size: 18px;
```

```
    font-family: var(--font1);
```

```
    border-radius: 12px;
```

```
}
```

STYLE.CSS

```
* {  
    margin: 0px;  
    padding-top: 2px;  
}  
  
.navigation {  
    font-family: var(--font1);  
    height: 34px;  
    /* background-color: red; */  
    display: flex;  
    justify-content: space-between;  
    align-items: center;  
    margin-top: 23px;  
}  
  
.nav-Left {  
  
    font-size: 28px;  
    display: flex;  
    font-weight: bold;  
}  
  
.nav-Left img{  
    border: 2px solid rgb(248, 163, 127);  
    border-radius: 40px;  
}  
  
.nav-Left ul li {  
    list-style: none;  
    font-family: var(--font2);  
    margin: 0 15px;  
}  
  
.nav-left span{
```

```
padding-top: 5px;  
}  
  
.nav-Left ul li a:hover{  
    color:var(--main-bg-color);  
    font-weight: bolder;  
}  
  
.nav-Left ul li a {  
    text-decoration: none;  
    color: black;  
    transition: all 0.3s ease-in-out;  
}  
  
.nav-Left ul {  
    list-style: none;  
    display: flex;  
    align-items: center;  
    margin: 0 60px;  
    font-size: 25px;  
}  
  
.nav-right {  
    font-size: 20px;  
    margin-bottom: 10px;  
}  
  
.left-content{  
    font-family: var(--font1);  
  
    display: flex;  
    flex-direction: column;  
    justify-content: center;  
    padding: 30px;  
    z-index: 1;  
}
```

```
.right-content{  
  
    display: flex;  
    justify-content: center;  
    align-content: center;  
}  
  
.right-content img{  
  
    height: 250px;  
    width: 250px;  
    border: 2px solid black;  
    border-radius: 200px;  
    padding: 0px;  
    margin-top: 20px;  
  
}  
  
.content {  
  
    height: 314px;  
    /* background-color: rgb(230, 148, 148); */  
    display: flex;  
    margin-top: 20px;  
    position: relative;  
  
}  
  
.content::after{  
  
    content: "";  
    background-image: url('../img/news.jpg');  
    position: absolute;  
    width: 100%;  
    height: inherit;  
    opacity: 0.15;  
    z-index: -1;  
    /* margin-bottom: 50px; */  
  
}
```

```
.home-article{  
  
    display: flex;  
    padding: 15px;  
}  
  
.home-articles{  
  
    /* height: 455px; */  
    /* background-color: rgb(119, 119, 201); */  
    padding-top: 15px;  
    position: relative;  
}  
  
.year-box{  
  
    position: absolute;  
    width: 234px;  
    height: 255px;  
    /* background-color: red; */  
    right: 50px;  
    top: 100px;  
}  
  
.year-box div{  
  
    margin-top: 12px;  
}  
  
.home-article img{width: 300px;  
  
    height: 200px;  
    border: 2px black;  
    border-radius: 10px;}  
  
  
.home-article-content{  
  
    align-self: center;  
    padding: 0 25px;  
    /* height: 300px;  
    width: 500px; */  
}  
  
.home-article-content a{  
  
    text-decoration: none;  
    color: black;
```

```
}

.footer {
    height: 50px;
    background-color: var(--main-bg-color);
    display: flex;
    align-items: center;
    justify-content: center;
    color: white;
    flex-direction: column;
    margin-top: 10px;
}

.footer a{ color: white;}
```

MOBILE.CSS

```
@media screen and (max-width:1250px){\n\n    .navigation{\n\n        flex-direction: column;\n\n        width: auto;\n\n        margin-bottom: 40px ;\n\n    }\n\n    .nav-Left{\n\n        flex-direction: column;\n\n        text-align: center;\n\n    }\n\n    .nav-right{\n\n        display: flex;\n\n        flex-direction: row;\n\n        align-items:center;\n\n        width: auto;\n\n    }\n\n    .right-content{\n\n        display: none;\n\n    }\n\n    .left-content {\n\n        height: auto; /* Let the height adjust automatically */\n\n        min-height: 200px; /* Optional: Set a minimum height */\n\n        padding: 20px; /* Add padding for spacing */\n\n    }\n\n    .form-input{\n\n        width: 50%;\n\n    }\n\n    .content {\n\n        flex-direction: column; /* Stack left-content and right-content vertically */\n\n        align-items: center; /* Center-align content */\n\n        margin-top: 65px;\n\n        height: auto; /* Let the height adjust automatically */\n\n    }\n\n    .home-articles{
```

```
flex-direction: column;  
align-items: center;  
  
height: auto;  
margin-top: 70px;  
margin-left: 50px;  
  
}  
.home-article-img{ text-align: center; }  
.home-article img{  
height: 150px;  
width: 150px;  
  
}  
.home-article{  
flex-direction: column;  
}  
.contact-content{  
margin-top: 80px;  
}  
}
```

CONTACT.CSS

```
.contact-content {  
    height:800px;  
    /* background-color: rgb(230, 148, 148); */  
    display: flex;  
    margin-top:20px;  
    position: relative;  
    display: block;  
    margin-bottom: 60px;  
    overflow: hidden;  
  
    border-radius: 4px;  
  
}  
  
.contact-content::after{  
    content: "";  
    background-image: url('../img/news.jpg');  
    position: absolute;  
    top: 0px;  
    width: 100%;  
    height: inherit;  
    opacity:0.40;  
    z-index: -1;  
    overflow: hidden;  
    /* margin-bottom: 50px; */  
  
}
```

Blog Website Visuals

HOME PAGE

The screenshot shows the homepage of the Q/Hub website. At the top, there's a navigation bar with a logo, "Home", "About", and "Contact" links, along with a search bar. Below the header is a colorful banner featuring glasses and a magnifying glass, with the text "Welcome to Q/Hub" and a brief introduction about the site's purpose. To the right of the banner is a circular icon depicting a computer monitor, keyboard, and other office supplies. The main content area is titled "Featured Articles" and contains four cards, each with a thumbnail image, article title, author, and publish date.

Welcome to Q/Hub

Here you get different types of article to enhance your knowledge

At Q-HUB, we believe that every thought, story, and experience has the power to inspire. Whether you're here for insightful articles, creative musings, or practical advice, you've found your space. Dive into engaging discussions, explore fresh perspectives, and be part of a community that thrives on curiosity and passion.

Featured Articles

Windows Remote Desktop Protocol contains a login backdoor Microsoft refuses to fix.
Author: Alfonso Maruccia
Publish date : may 2

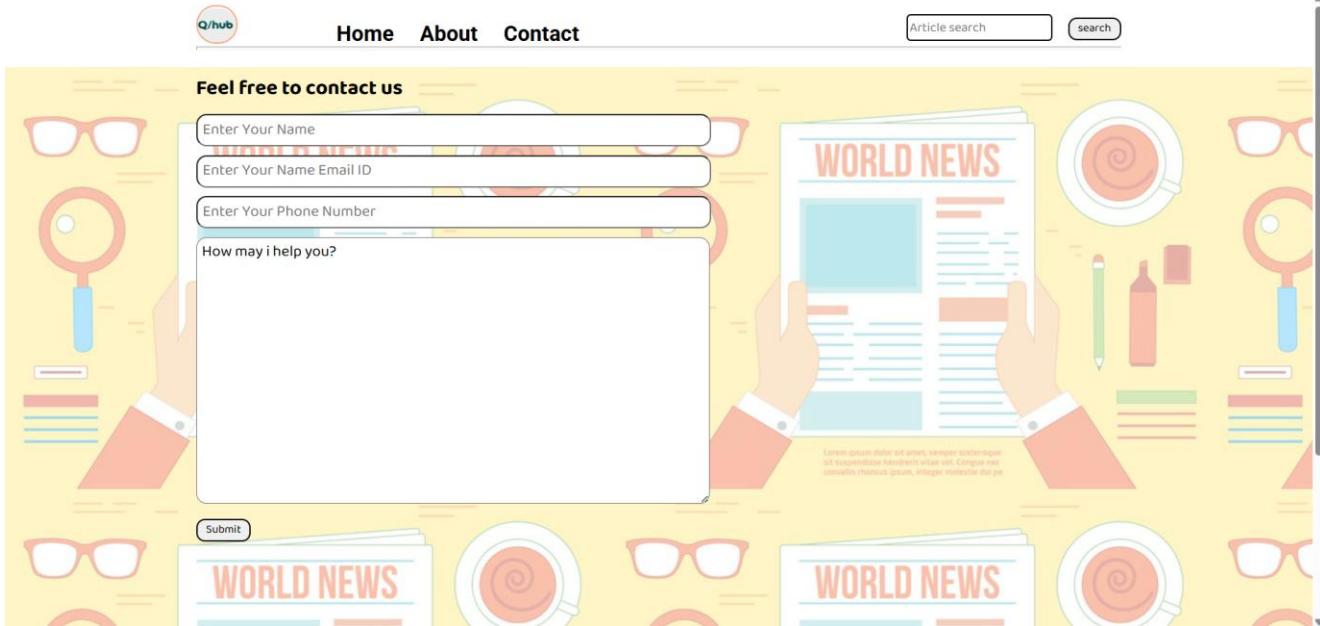
The Asus TUF Gaming T500 is a mobile CPU-powered desktop for better thermals
Author: Zo Ahmed
Publish date : may 3

Half-Life 3 reportedly playable end-to-end, possibly launching this year.
Author: Daniel Sims
Publish date : may 3

Astronomers spot possible Planet Nine in data spanning 23 years.
Author: Skye Jacobs
Publish date : may 6

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CONTACT PAGE



Responsiveness of Home page

A screenshot of the responsive Home page for Q/HUB. The page features a clean design with a white header containing the Q/hub logo, a navigation bar with Home, About, and Contact links, and a search bar. The main content area is titled "Welcome to Q/Hub" and includes a paragraph of text about the site's mission to inspire through various types of articles. Below this, there is a section titled "Featured Articles" with two items. The first article is titled "Windows Remote Desktop Protocol contains a login backdoor Microsoft refuses to fix." It features a thumbnail image of a computer screen showing multiple windows, the author's name (Alfonso Maruccia), and a publish date of May 2. The second article is titled "The Asus TUF Gaming T500 is a mobile CPU-powered desktop for better thermals." It features a thumbnail image of the Asus TUF Gaming T500, the author's name (Zo Ahmed), and a publish date of May 3.