Notification

JavaScript

Introduction

- Javascript Notification API lets you send notification to the end users.
- This feature is only available HTTPS*.
- The notification are displayed even when the user has switched tabs or moved to different app.
- So, in this post, we're going to dive into the world of notifications with JavaScript and learn how to master this essential feature together.

*It also works with localhost

Getting Started

To get started, let's set up the basic structure for our notification example.

- Lets add a button with class notify.
- Clicking this button will eventually trigger the Javascript Notification API.

```
<button class="notify">Notify Me </button>
```

Add Event Listener

Let's start with an event listener, This is where the magic happens!.

- First start with checking if the browser has the Notification API support.

```
const NotificationBtn = document.querySelector('.notify');

const requestPermission = () => {
  if(!("Notification" in window))
    throw new Error("Browser doesn't support Notification");

  Notification.requestPermission().then((permission) => {
   // Create a new notification
      new Notification("Hello, World!");
  });
};

NotificationBtn.addEventListener('click', requestPermission);
```

Customizing Notification

Now, let's spice up our notifications by adding some customizations.

- We can control the content and appearance of our notifications using additional options.

```
const requestPermission = () => {
  if(!("Notification" in window))
    throw new Error("Browser doesn't support Notification");

  Notification.requestPermission().then((permission) => {
   // Create a new notification with custom content
    let notificationOptions = {
      body: "Welcome to JavaScript Notifications!",
      icon: "notification-icon.png"
    };
    new Notification("Hello, World!", notificationOptions);
  });
};
```

Advanced Features

JavaScript offers advanced features to make your notifications even more impressive.

- You can add actions to your notifications, allowing users to perform specific actions directly from the notification itself.

```
const requestPermission = () => {
  Notification.requestPermission().then((permission) => {
    let notificationOptions = {
      body: "Welcome to JavaScript Notifications!",
      icon: "notification-icon.png",
      actions: [
          { action: "explore", title: "Explore JavaScript" },
          { action: "dismiss", title: "Dismiss" }
        ]
    };
    new Notification("Hello, World!", notificationOptions);

    notification.onclick = function (event) {
      if (event.action === "explore") {
        alert("Let's dive into JavaScript!");
      }
      notification.close();
    };
  });
};
```

Conclusion

- You've learned how to create and customize notifications using JavaScript.
- Remember to request permission before displaying notifications and be mindful of user preferences.
- So go ahead, start implementing notifications in your projects, and make your web applications stand out with delightful user experiences.
- As always, I hope you enjoyed the post and learned something new.
- If you have any queries then let me know in the comment box.

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