# A Web-Based Meditation Timer

## **Enhancing Mindfulness Through Technology**

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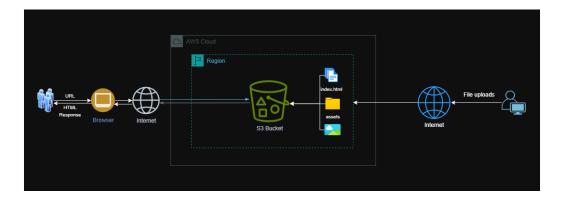
Parth Satish (Cloud Engineer)

Application Link: <a href="http://codewarriorshackathon.s3-website.ap-south-1.amazonaws.com/">http://codewarriorshackathon.s3-website.ap-south-1.amazonaws.com/</a>

GitHub Link: <a href="https://github.com/VaishnaviDhobale/Code-Warriors">https://github.com/VaishnaviDhobale/Code-Warriors</a>

### **Project Overview**

The Mindfulness Timer is a web application designed to help users practice mindfulness and meditation through timed sessions. Users can choose predefined time durations and receive a gentle bell sound when the timer ends. This app aims to promote mental well-being and encourage brief, meaningful breaks.



#### **Tech Stack**

Frontend: HTML, CSS, JavaScript

Cloud Hosting: AWS S3 (Static Website Hosting)

Tools: Visual Studio Code, GitHub, AWS Management Console

## **Hosting & Deployment**

The project is deployed using Amazon S3 static website hosting.

All static assets are served directly from S3.

Permissions and policies were configured to allow secure public access.

### **Implementation Details**

- JavaScript's setTimeout() and setInterval() for timing logic
- LocalStorage for saving preference



## **Coding documentation**

#### Index.html file

### Javascript files

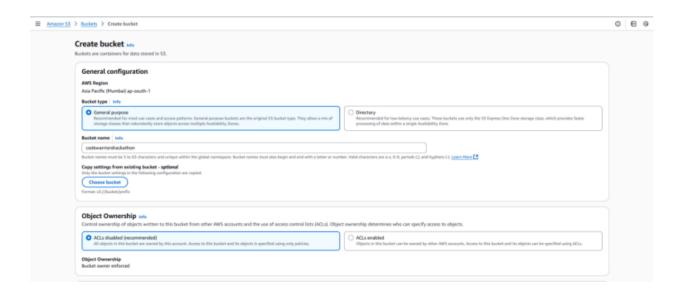
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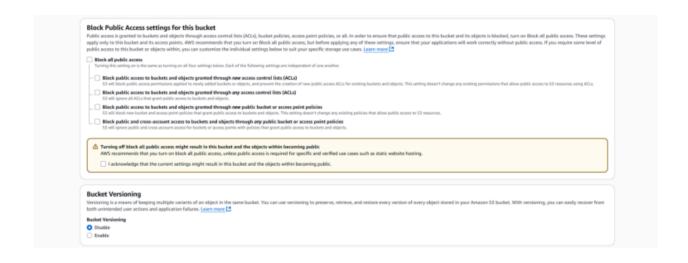
## Stylesheet(CSS) Files

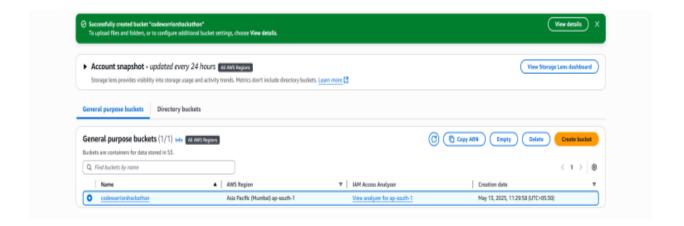
# **Set Up AWS Environment**

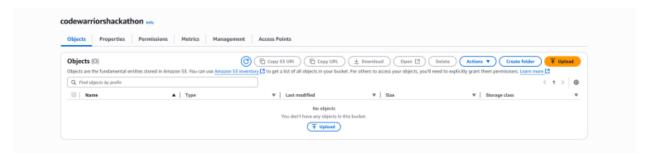
## Step 1: Creating an S3 bucket in AWS Console.

- Go to Aws Console
- Search for S3
- Create New S3 Bucket
- Select the Bucket type As General purpose.
- Unmark the Block Public Access Settings for this Bucket so that Everyone can access from the URL.
- Now Click on Create Bucket.
- The new Bucket is Now Available.









Step 2: Add Policy

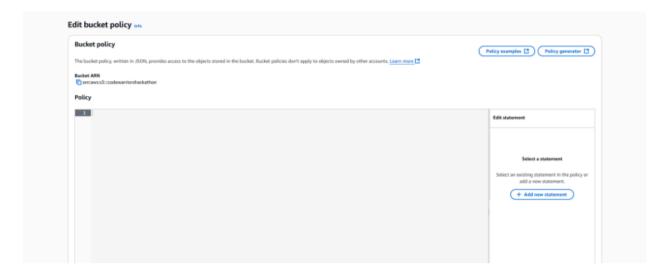
An S3 bucket policy in AWS is a resource-based policy that grants access permissions to your S3 bucket and the Object within it is the JSON document that defines permission for accessing a specific bucket.

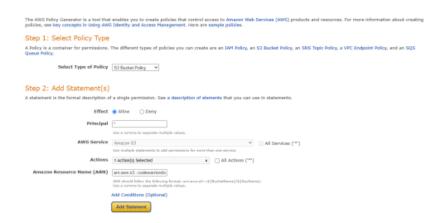
- Click on Edit Bucket Policy
- Click on Policy Generator.
- Select the Type as S3 Bucket Policy.
- In Add Statement Allow the Effect and Enter \* in principal
- Enter the ARN which is available in bucket details.

The policy will be generated. Copy the policy and paste it.

## **Step 3: Public Block Access disable**

If the Block Public Access bucket setting is ON By default, then turn it to OFF, so that it will Not Block Any Access Request





Principal(s) Effect Action Resource Conditions

• " Allow • s3:GetObject arn:aws:s3:::codewarriorshackathon/" None

Step 3: Generate Policy

A policy is a document (written in the Access Policy Language) that acts as a container for one or more statements.

Generate Policy

Start Over

## For Improvement

While the some functionality was successfully implemented, the following areas are identified for future improvement:

- 1. Add Persistent Data Storage Currently, no user data is saved (e.g., timer history or preferences). Future versions can integrate a database (like AWS DynamoDB).
- Save custom timers
   Track daily meditation/study logs
   Personalize user experience
- Deployment Upgrades
   Add CDN (via CloudFront) for faster global access
   Enable HTTPS using AWS Certificate Manager and custom domain via Route 53

Note: Delete the resources once you are done with the project.

**THANK YOU**