Indian Tourism Website On AWS S3

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TITLE

Build your own static website and deploy it using Amazon S3 service.

PROJECT DEFINITION

This project describes the use of Amazon Web Services as the cloud on which the static website has been deployed. The static website is an Indian Tourism website which is used by travelers as a guide to India. AWS S3 bucket has been used host the content of the website.

OBJECTIVES

The main objective is to learn the working of cloud services and their interaction with users. It focuses on the technique of deployment of a static website on the cloud. Using the buckets provided by AWS S3 and understanding its working is the main aim.

ABSTRACT

In this current world scenario of rapid industrialization and growing technology, the amount of data that is produced daily is enormous. Also, nowadays, the computers are provided with a predefined set of hardware and software resources. Thus whenever there is a need for better resources, cloud services are used.
Cloud is also used to deploy websites which can be accessible from any part of the world with internet connection. Thus, we have deployed a static Tourism website using an AWS S3 bucket.
This report explains in detail how the service is initiated for our disposal and the steps used to deploy the website.

Keywords: Cloud Service, AWS S3, bucket, host, deploy.

1. Introduction

Cloud services refer to any IT services that are provisioned and accessed from a cloud computing provider. This is a broad term that incorporates all delivery and service models of cloud computing and related solutions. Cloud services are delivered over the internet and accessible globally from the internet. Cloud services provide great flexibility in provisioning, duplicating and scaling resources to balance the requirements of users, hosted applications and solutions. Cloud services are built, operated and managed by a cloud service provider, which works to ensure end-to-end availability, reliability and security of the cloud.

1.1 Background

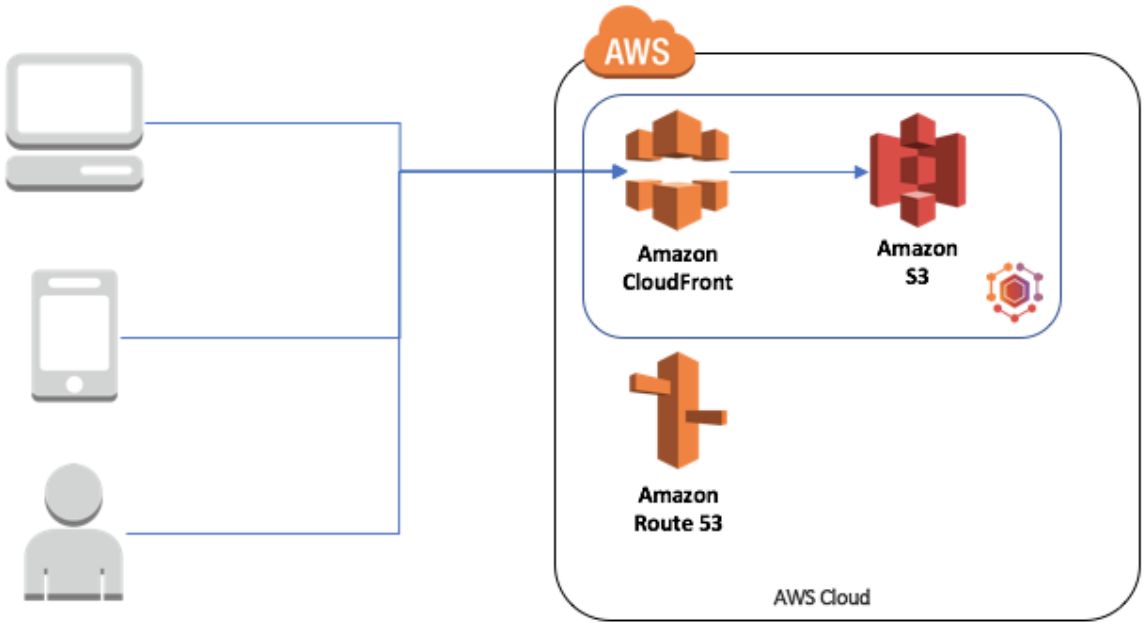
Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance. This means customers of all sizes and industries can use it to store and protect any amount of data for a range of use cases, such as websites, mobile applications, backup and restore, archive, enterprise applications, IoT devices, and big data analytics. Amazon S3 provides easy-to-use management features so you can organize your data and configure finely-tuned access controls to meet your specific business, organizational, and compliance requirements. Amazon S3 is designed for 99.999999999% (11 9's) of durability, and stores data for millions of applications for companies all around the world.

1.2 Advantages of S3

- Industry-leading performance, scalability, availability, and durability
- Wide range of cost-effective storage classes
- Unmatched security, compliance, and audit capabilities
- Easily manage data and access controls
- Query-in-place services for analytics
- Most supported cloud storage service

1.3 Basic Architecture

The figure shows the basic architecture of an S3 service.



2. Requirements

2.1 Software Requirements

Since the website is hosted on the cloud service, there is no such requirement. A strong internet connection is the only requirement.

2.2 Hardware Requirements

The cloud provides all the required resources, hence, no such hardware requirements as well.

2.3 User Interface

The user interface works on any of the specified browsers. It consists of a user friendly environment that provides information about some of the tourist places in India.
It is deployed on the AWS S3 bucket which is accessible throughout the world with an internet connection.

3. Outcomes

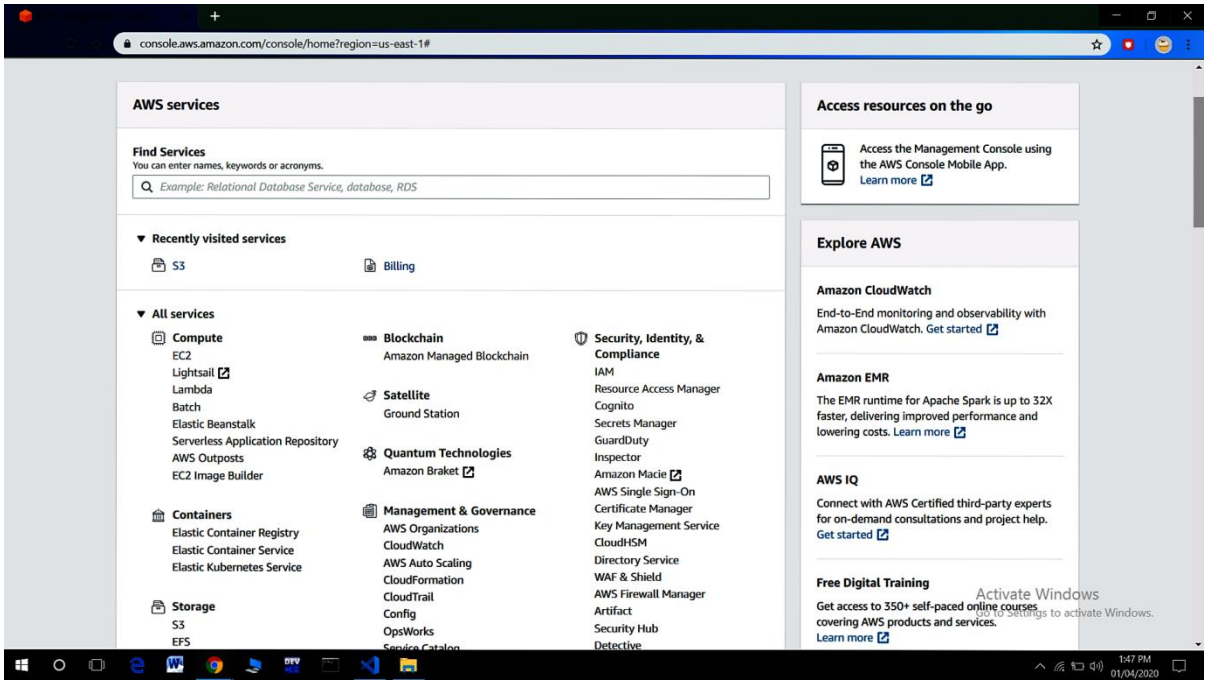
Using the aforementioned requirements, we have implemented a system that enables users to view the Indian Tourism website on any device with an internet connection and the link to the website. Cloud helps to simplify all the processes and provide the outcome in the best possible way.

4. Steps for Cloud Service Initialization

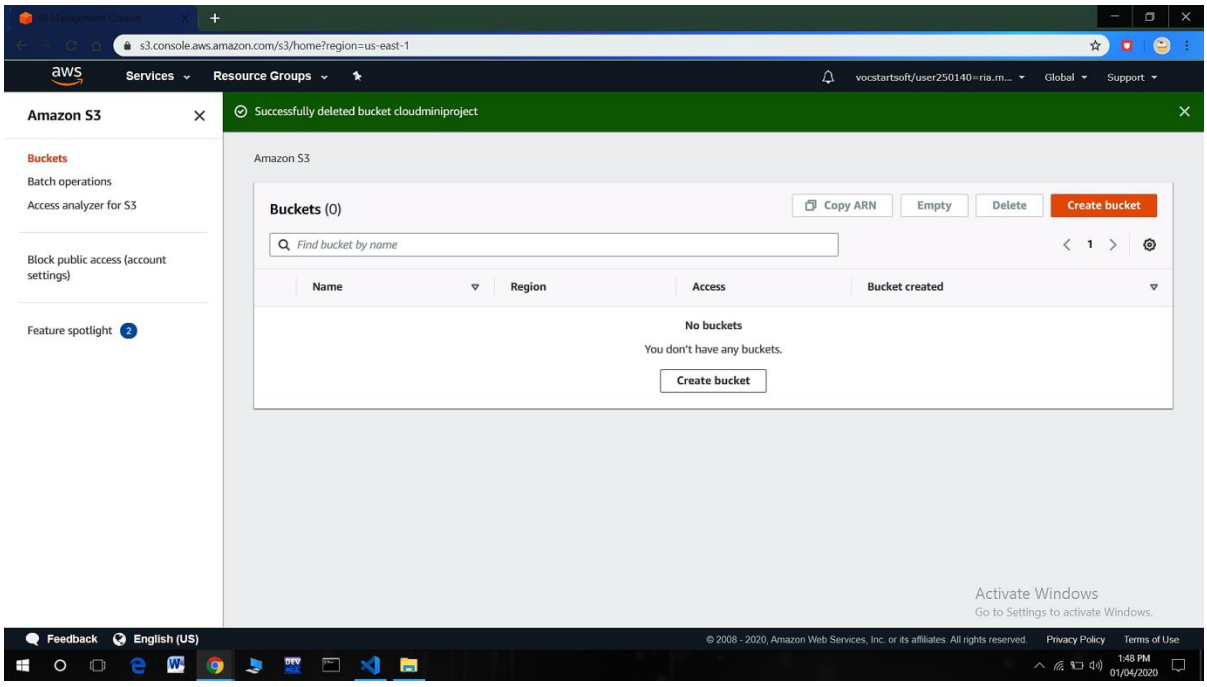
Step 1: AWS account setup

The account can be set up using your mail ID and credit card information. As a student, we already had an AWS Educate account. So we were able to use the service for free.

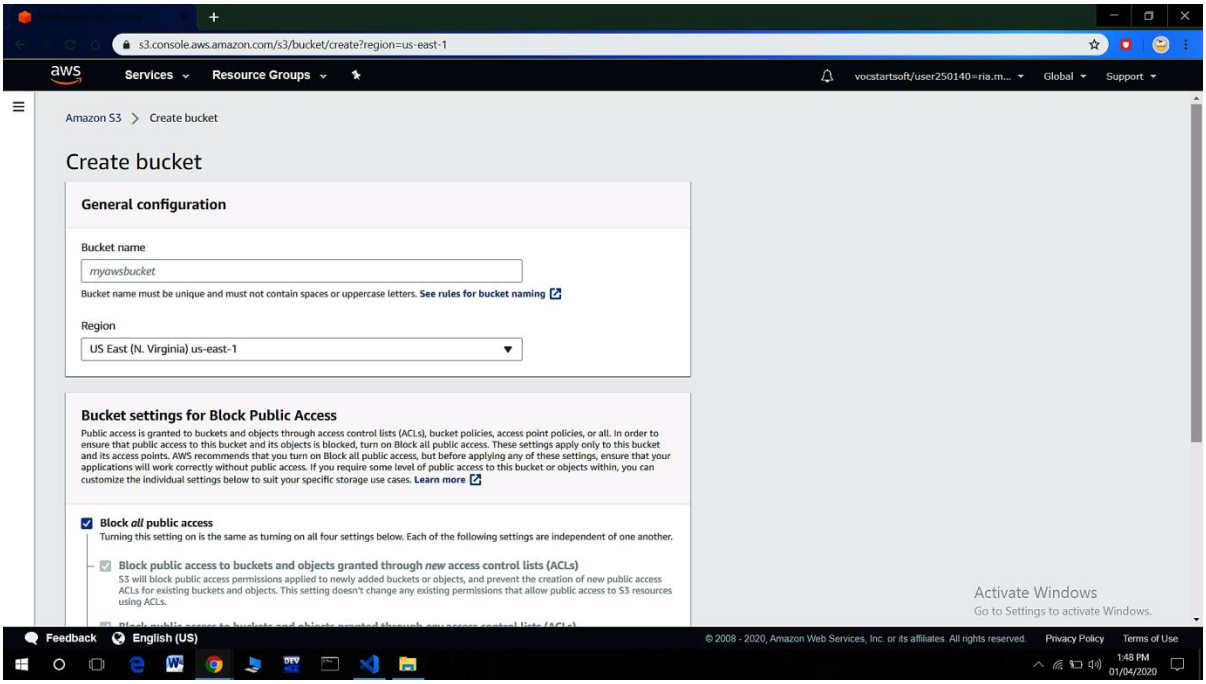
Step 2: Open the AWS Services Page

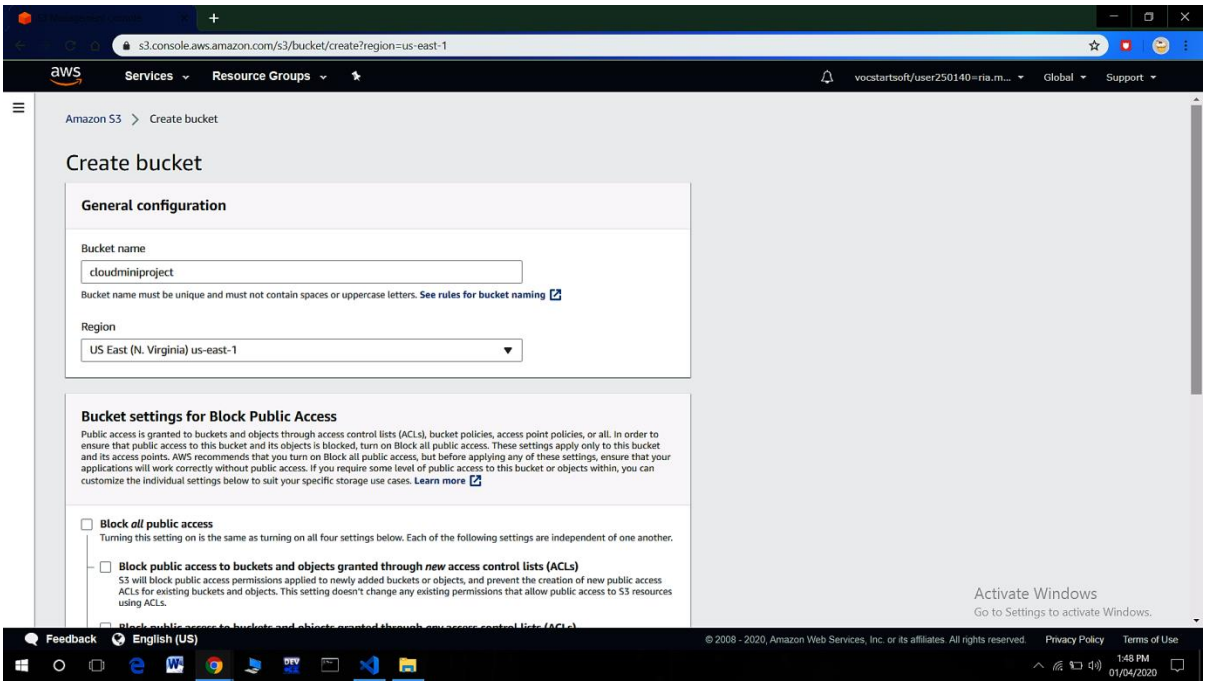


Step 3: Select the S3 option in the services

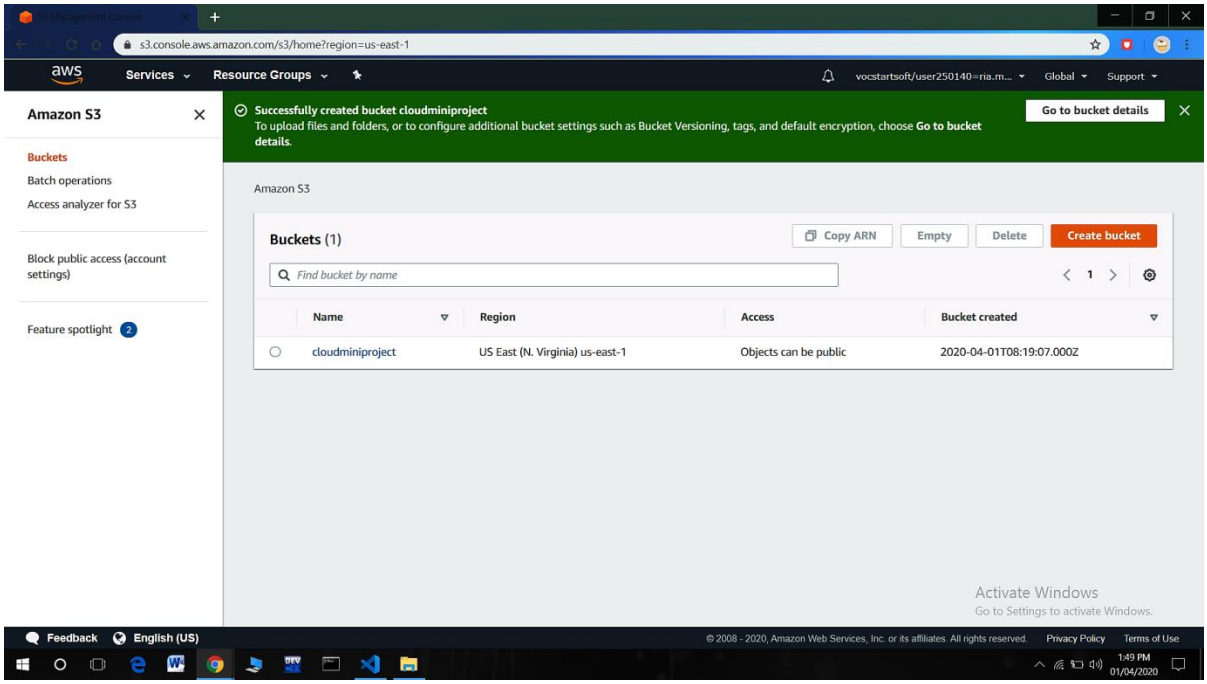


Step 4: Create your bucket



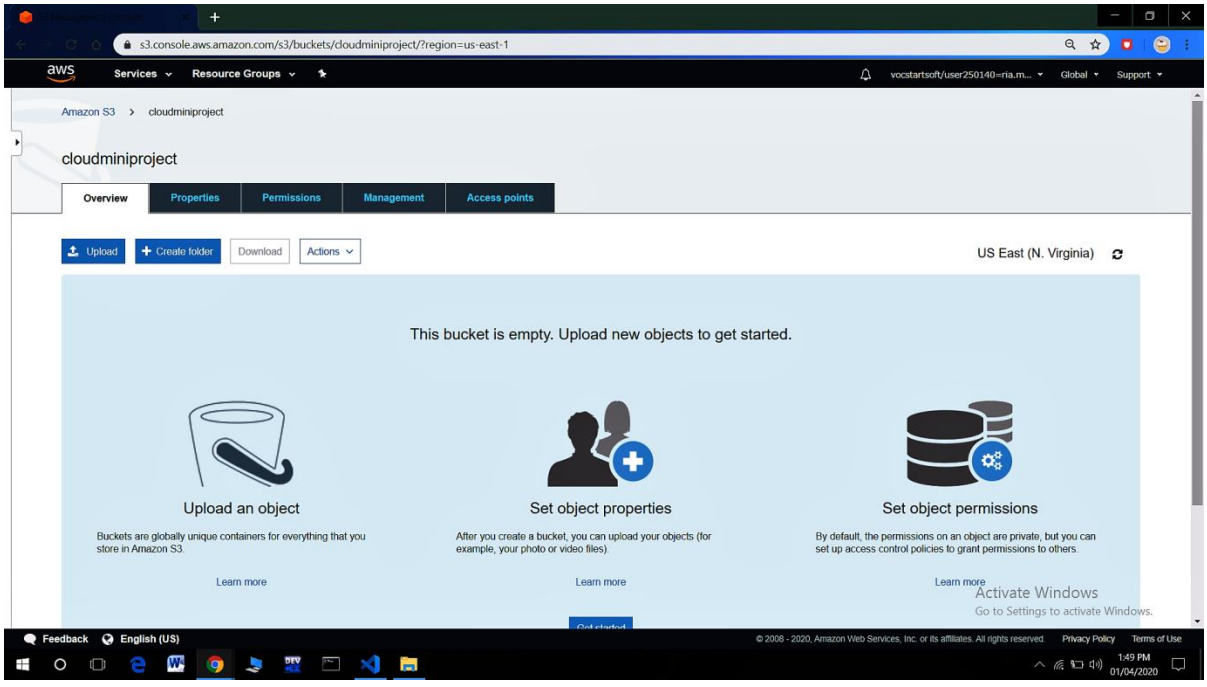


Step 5: Successfully created the bucket

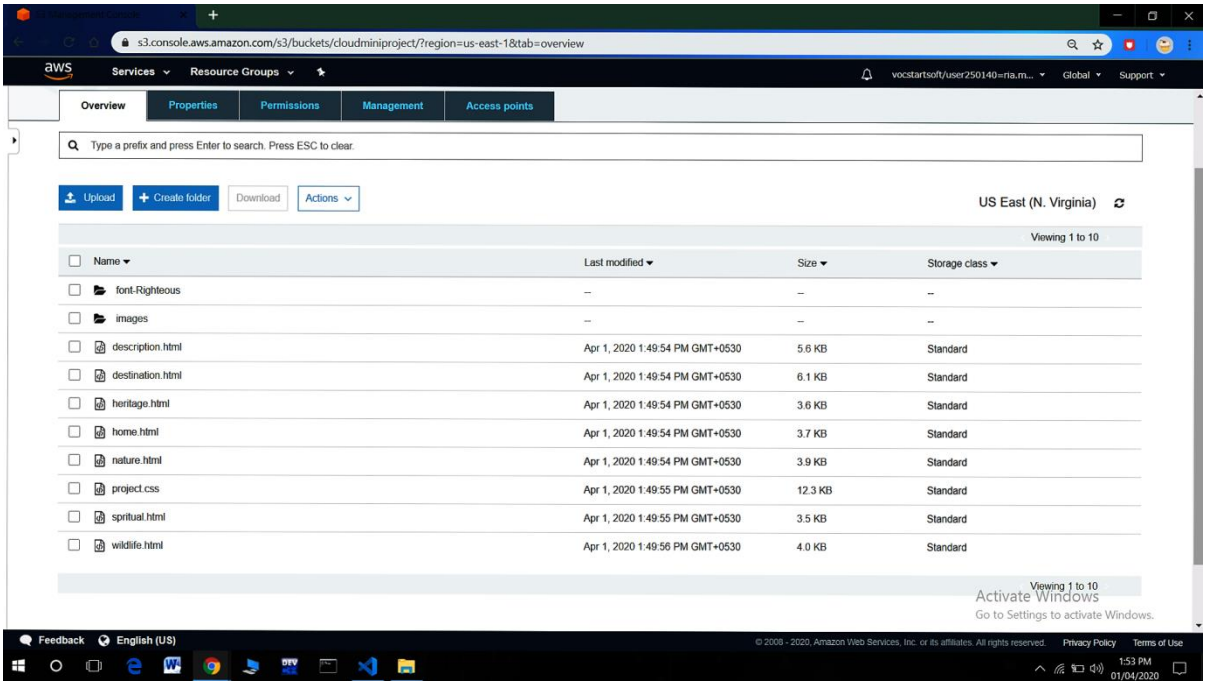


Step 6: Open the bucket

The bucket looks like this at first.

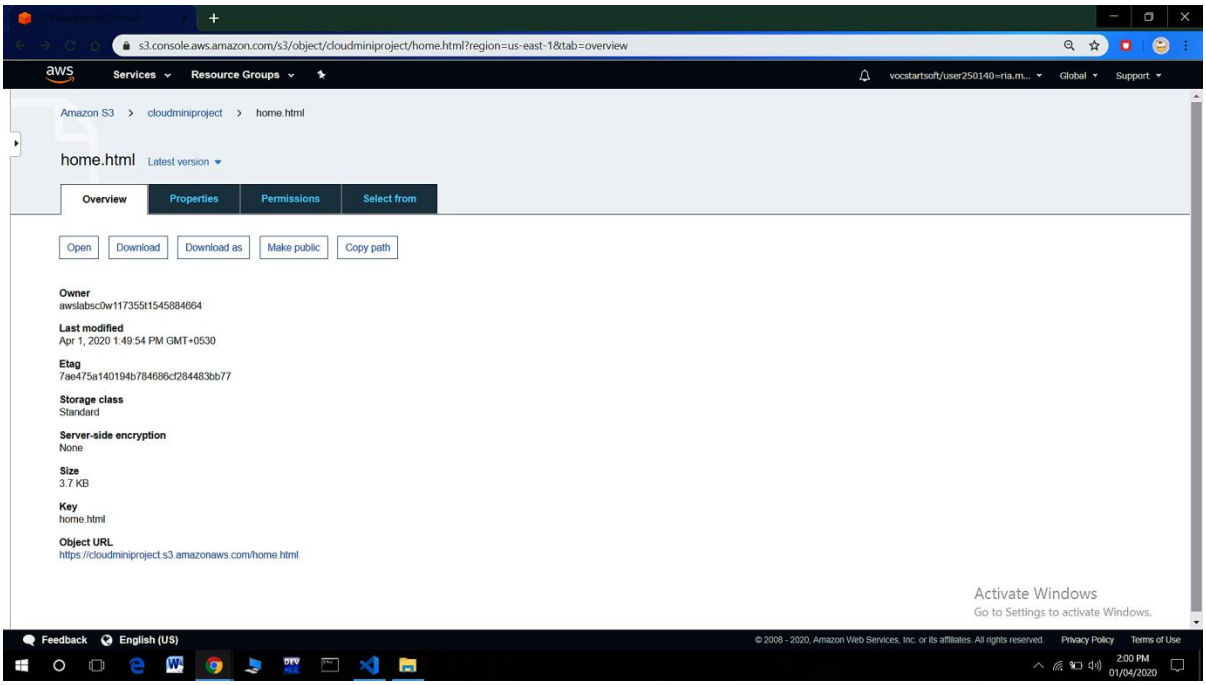


Step 7: Upload your website files

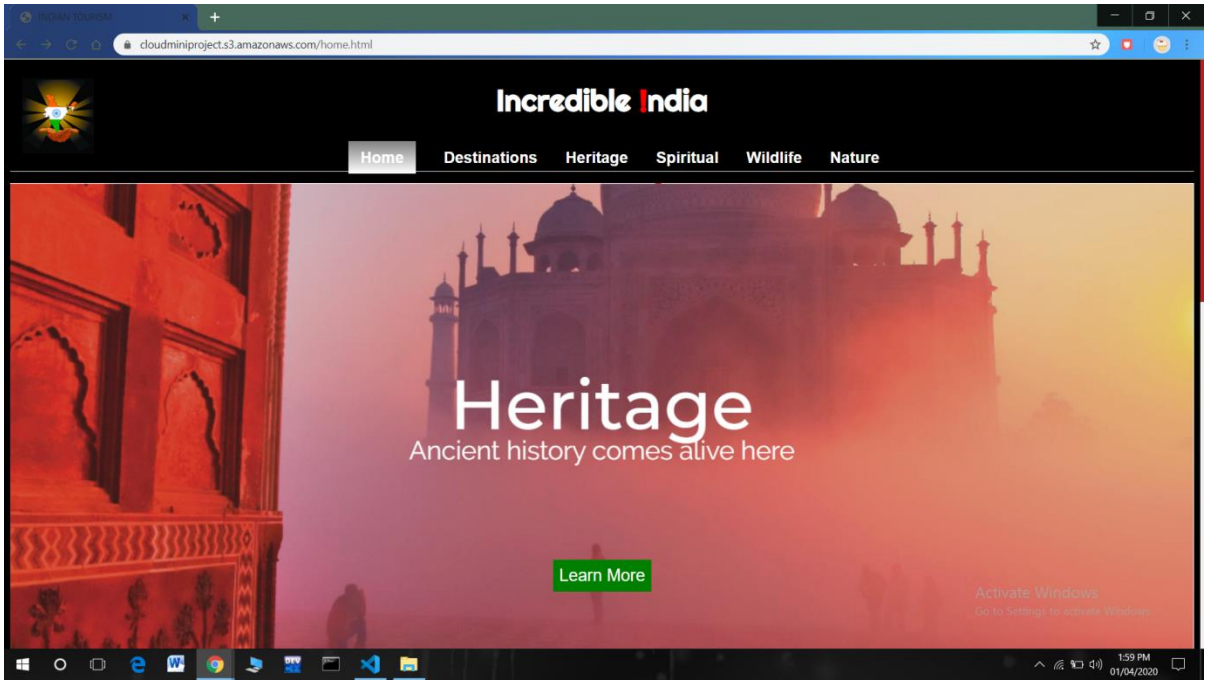


Step 8: Make all the files PUBLIC by selecting make public action on top

Step 9: Open the Properties page and find the link to your website



Step 10: Your website is ready



5. Source Code

Sample code

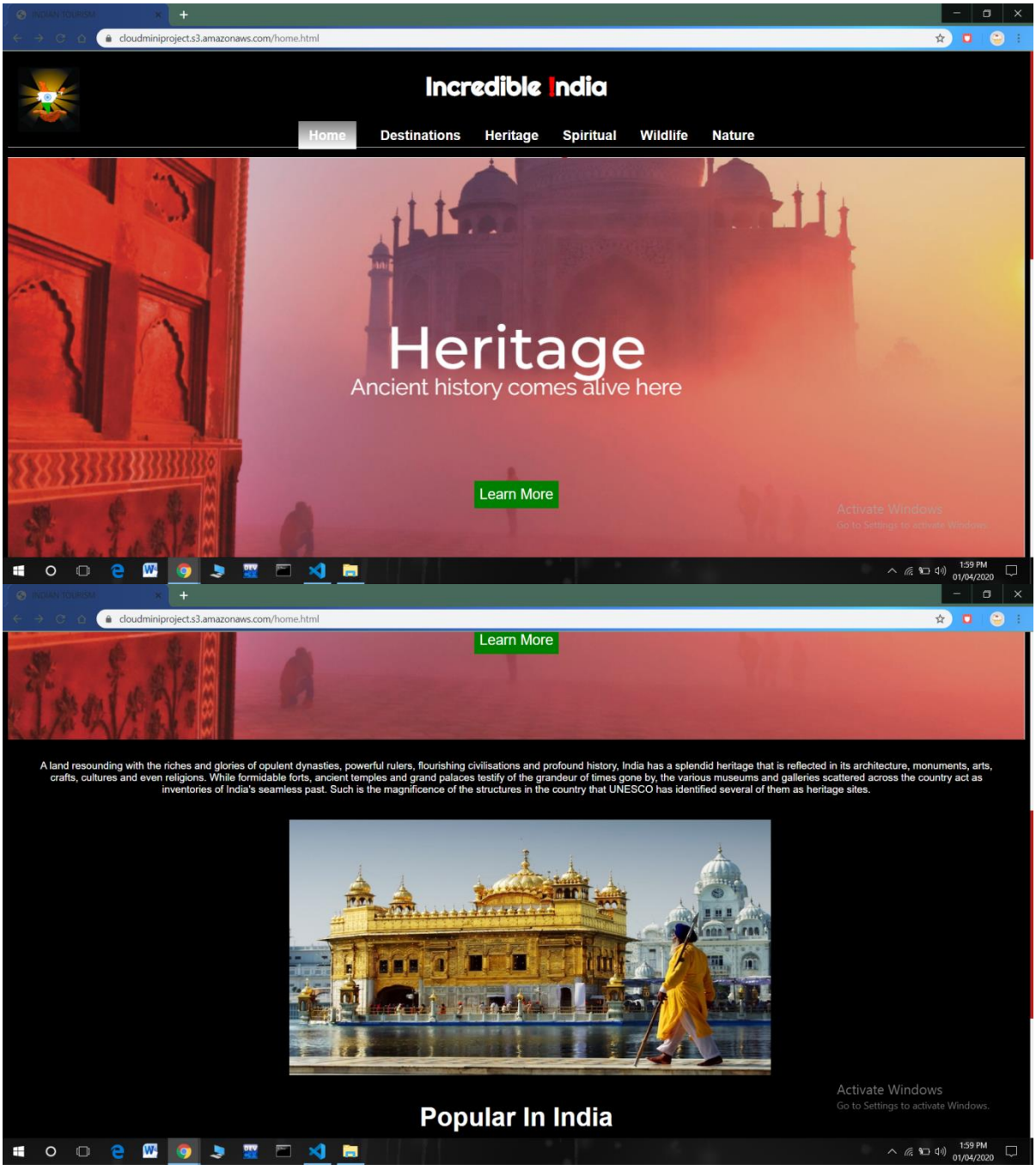
```
<!DOCTYPE html>
<html lang="en">

<head>
	<meta charset="utf-8">
	<meta name="description" content="Visit best places of india ">
	<meta name="viewport" content="width-device-width" initial-scale=1.0>
	<title>INDIAN TOURISM</title>
	<link rel="stylesheet" href="project.css">
	<link rel="icon" href="images/title-icon.jpg" type="image/jpg">
	<link rel="stylesheet"
		href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-
awesome.min.css">
</head>

<body>
	<!-- <div class="container"> -->
	<header class="header">
```

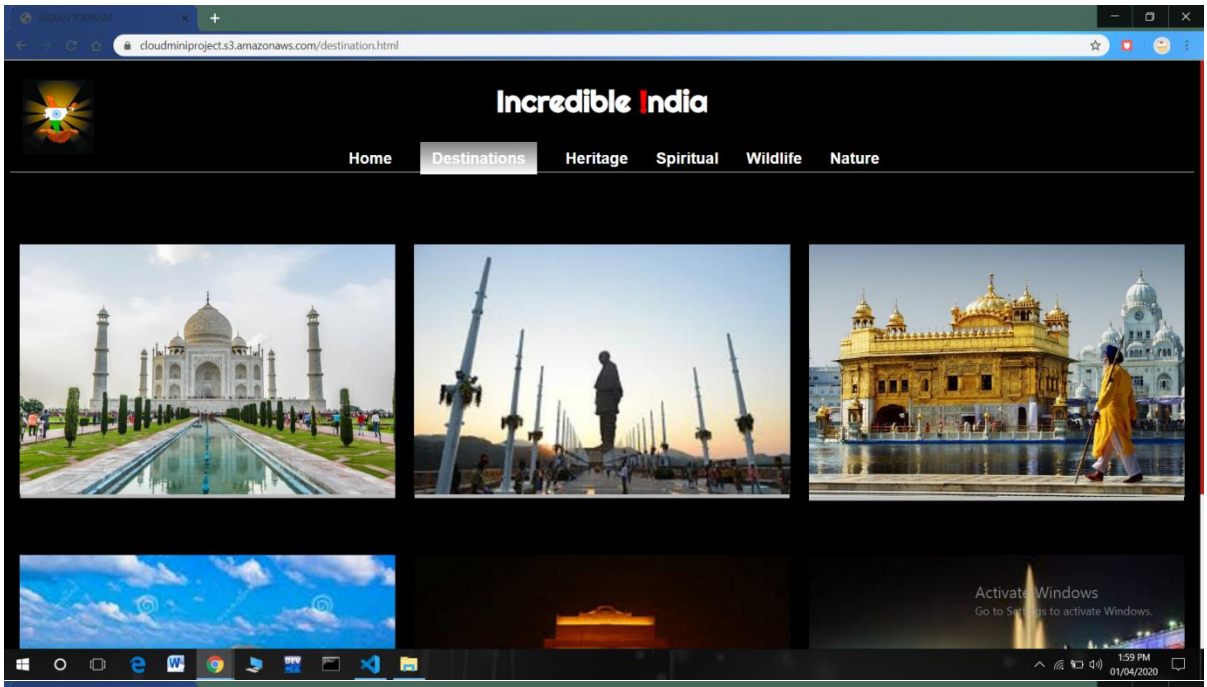
```
        <img src="images/logo.jpg">
        <b>Incredible <span>!</span>ndia </b>
    </header>

    <nav class="nav">
        <label for="toggle">&amp;#9776;</label>
        <input type="checkbox" id="toggle">
        <div class="menu">
            <a href="home.html" class="active">Home</a>
            <a href="destination.html">Destinations</a>
            <!-- <a href="javascript:void(0)"  class="dropbtn">Experiences</a> -->
            <!-- <div class="dropdown-content"> -->
                <a href="heritage.html">Heritage</a>
                <a href="spritual.html">Spiritual</a>
                <a href="wildlife.html">Wildlife</a>
                <a href="nature.html">Nature</a>
            <!-- </div> -->

        </div>

    </nav>

    <main class="main">

        <img src="images/home.jpg" alt="img2.jpg">

        <div class="btn-details">
            <a href="destination.html">Learn More</a>
        </div>



        <div class="popular-block">
            <p>A land resounding with the riches and glories of opulent dynasties,
powerful rulers,
                flourishing civilisations and profound history, India has a splendid
heritage that is
                reflected in its architecture, monuments, arts, crafts, cultures and even
religions.
                While formidable forts, ancient temples and grand palaces testify of the
grandeur of
                times gone by, the various museums and galleries scattered across the
country act as
                inventories of India's seamless past. Such is the magnificence of the
structures in the
                country that UNESCO has identified several of them as heritage
```

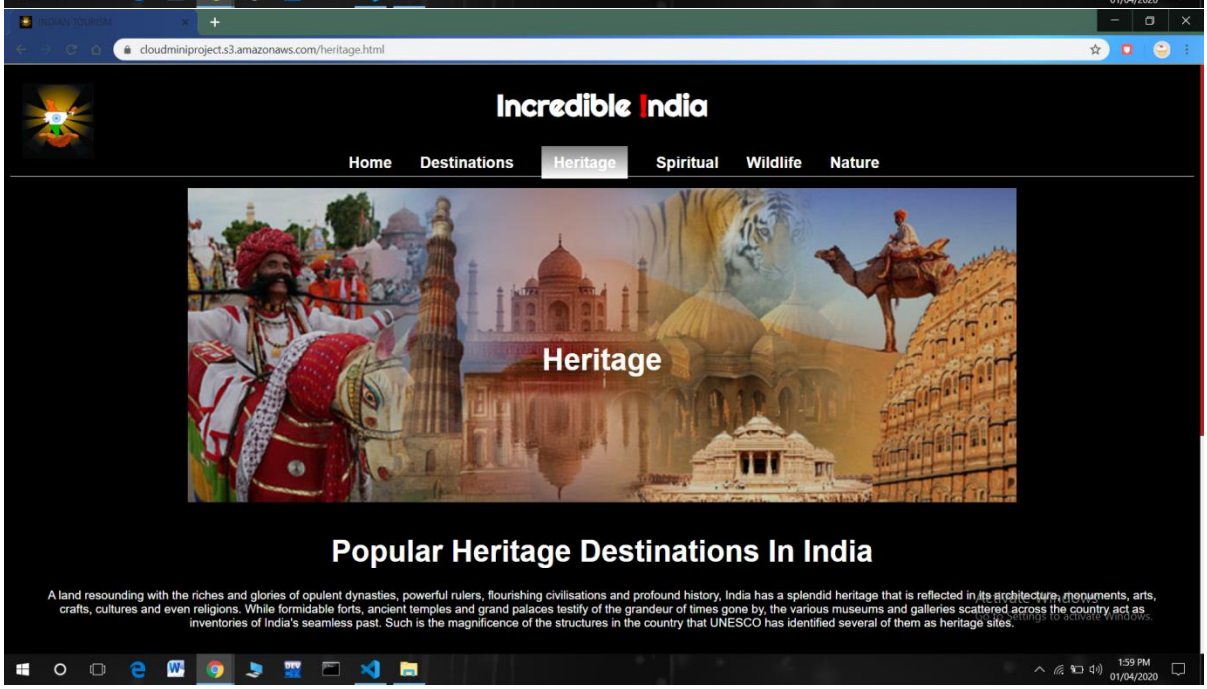
```
sites.</p>

            </div>
            </div>
            <div id="slider-New">
                <figure>
                    <img src="images/goldentemple.jpg" alt="carousel-01" />
                    <img src="images/tajmahal.jpg" alt="carousel-03" />
                    <img src="images/download3.jpg" alt="carousel-04" />
                </figure>
            </div>

            <div class="popular-block">
                <h1>
                    Popular In India
                </h1>
                <p>
                    India is a home to the finest architectural heritage, serene ghats,
spectacular
                    landscapes and largest tiger reserve
                </p>
            </div>
            <div class="visual-content">
                <video controls autoplay muted>
                    <source src="images/video.mp4" type="video/mp4">
                    Your browser does not support the video tag.
                </video>
            </div>
        </main>
</body>

</html>
```

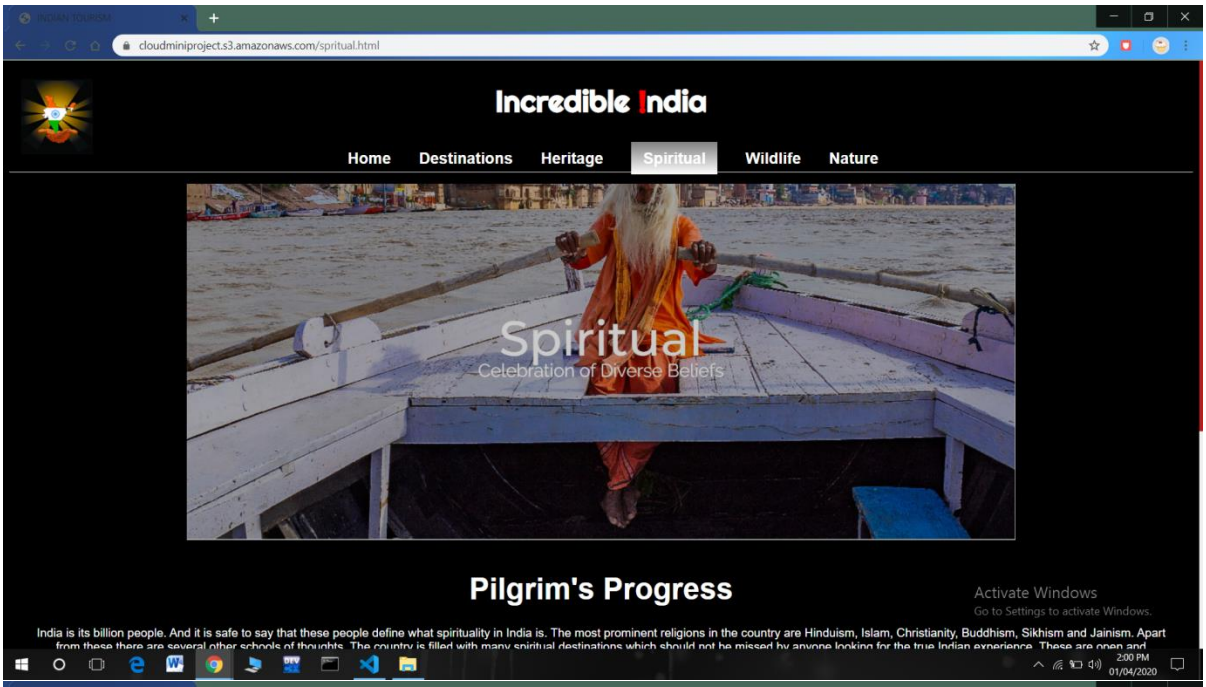
6. Output

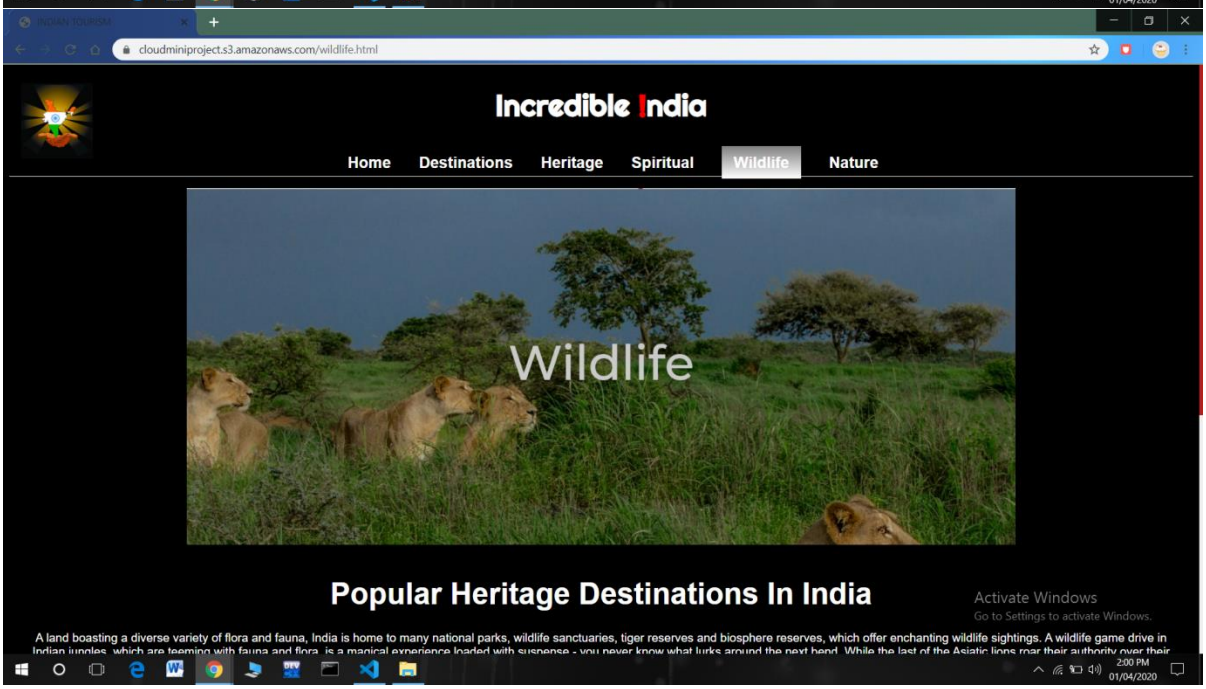
6.1 Client Side GUI




cloudminiproject.s3.amazonaws.com/destination.html
Incredible India
Home
Destinations
Heritage
Spiritual
Wildlife
Nature
Activate Windows
1:59 PM
01/04/2020


cloudminiproject.s3.amazonaws.com/heritage.html
Incredible India
Home
Destinations
Heritage
Spiritual
Wildlife
Nature
Heritage
Popular Heritage Destinations In India
A land resounding with the riches and glories of opulent dynasties, powerful rulers, flourishing civilisations and profound history, India has a splendid heritage that is reflected in its architecture, monuments, arts, crafts, cultures and even religions. While formidable forts, ancient temples and grand palaces testify of the grandeur of times gone by, the various museums and galleries scattered across the country act as inventories of India's seamless past. Such is the magnificence of the structures in the country that UNESCO has identified several of them as heritage sites.
1:59 PM
01/04/2020


cloudminiproject.s3.amazonaws.com/spritual.html
Incredible India
Home
Destinations
Heritage
Spiritual
Wildlife
Nature
Spiritual
Celebration of Diverse Beliefs
Pilgrim's Progress
Activate Windows
Go to Settings to activate Windows.
India is its billion people. And it is safe to say that these people define what spirituality in India is. The most prominent religions in the country are Hinduism, Islam, Christianity, Buddhism, Sikhism and Jainism. Apart
2:00 PM
01/04/2020


cloudminiproject.s3.amazonaws.com/wildlife.html
Incredible India
Home
Destinations
Heritage
Spiritual
Wildlife
Nature
Wildlife
Popular Heritage Destinations In India
Activate Windows
Go to Settings to activate Windows.
A land boasting a diverse variety of flora and fauna, India is home to many national parks, wildlife sanctuaries, tiger reserves and biosphere reserves, which offer enchanting wildlife sightings. A wildlife game drive in
2:00 PM
01/04/2020

7. Conclusion

The key features of the system include using the AWS S3 service to host the Indian Tourism website which can be viewed all over the world with simply an internet connection. Deployment of the website was done on AWS S3 cloud bucket. The website has been built using HTML 5 and CSS. It consists of the tourist attractions in India