

# **WEB TECHNOLOGIES**

## **IT 5501**

### **MINI PROJECT : CLOUD DEPLOYMENT**

(USING IBM CLOUD OBJECT STORAGE)

#### **Team Members**

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Link of the website : [Hiring Management System \(appdomain.cloud\)](https://appdomain.cloud)

## **Deploying Web Applications in the Cloud:**

Deploying web applications in the cloud offers unparalleled advantages in terms of scalability, accessibility and reliability. Leading platforms like AWS, Azure, and Google Cloud offer a spectrum of deployment services such as AWS Elastic Beanstalk, Azure App Service, and Google App Engine.

## **Hiring Management System:**

The Hiring Management System is made using basic web tools like HTML, CSS, and JavaScript. It does important things like making sure only authorized people can log in (like admins). When you check the home page, you'll see a list of jobs available. If you want to apply for a job, there's a simple form to fill out. And if you need to get in touch, there's a contact section just for that.

## **Hosting on IBM Cloud:**

Hosting the Hiring Management System on IBM Cloud brings reliability and security. IBM Cloud offers services like Cloud Foundry for deploying and managing applications effortlessly. Additionally, services like Kubernetes provide scalable and flexible container orchestration. With Cloud Object Storage, the data, including resumes and application details, stays secure and easily accessible, enhancing the overall performance and resilience of the hiring application.

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- Compute Infrastructure — includes its bare metal servers (single-tenant servers that are highly customizable), virtual servers, GPU computing, POWER servers (based on IBM's POWER architecture) and server software.
- Compute Services — includes OpenWhisk serverless computing, containers and Cloud Foundry runtimes.

- Storage — includes object, block and file storage, as well as server-backup capabilities.
- Watson — includes IBM's artificial intelligence and machine learning services, which it calls “cognitive computing,” such as Discovery search and content analytics, Conversation natural language services and speech-to-text.
- Data and analytics — includes data services, analytics services, big data hosting, Cloudera hosting, MongoDB hosting and Riak hosting.
- Internet of Things — includes IBM's IoT platform and its IoT starter packages.
- Security — includes tools for securing cloud environments, such as a firewall, hardware security modules (physical devices with key management capabilities), Intel Trusted Execution Technology, security software and SSL certificates.
- DevOps — includes the Eclipse IDE, continuous delivery tools and availability monitoring.

## **4. Cloud Object Storage of IBM**

### **Scalable Storage:**

IBM Cloud Object Storage provides a highly scalable solution, allowing to store and retrieve vast amounts of data as application's needs evolve.

### **Durable and Resilient:**

Data is stored redundantly across multiple locations, ensuring high durability and availability. This resilience helps safeguard against data loss and enhances the overall reliability of the application.

### **Flexible Storage Classes:**

IBM Cloud Object Storage offers different storage classes, allowing to tailor storage strategy based on the access frequency and performance requirements of the data.

## Security Features:

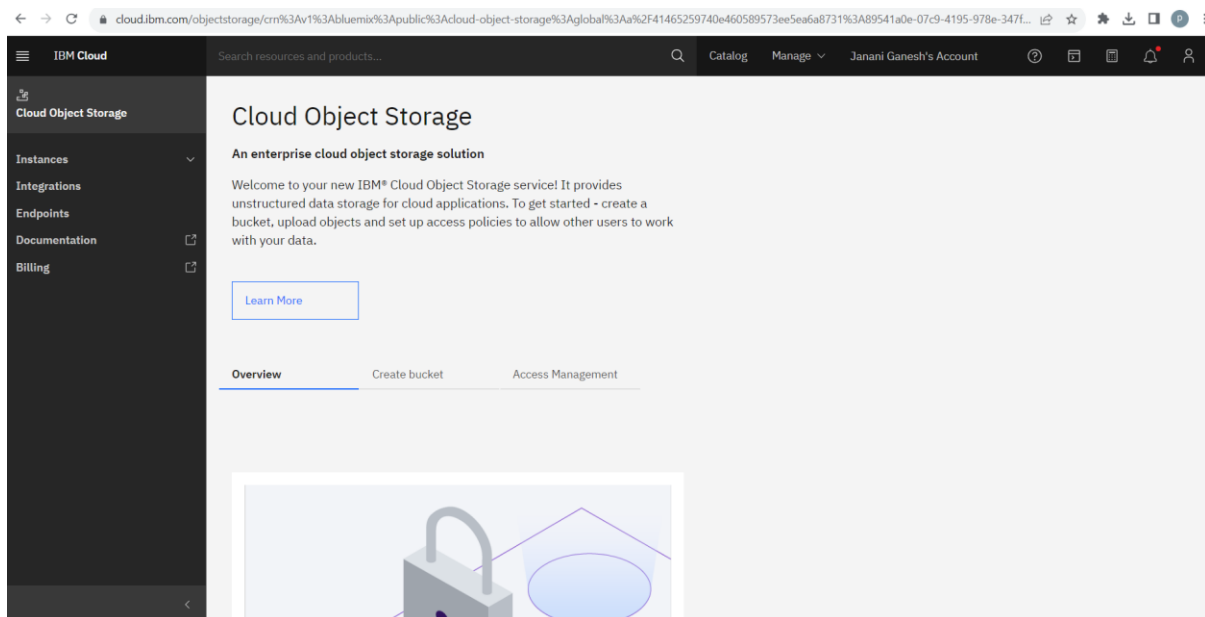
With robust security measures, including server-side encryption and access controls, IBM Cloud Object Storage ensures the confidentiality and integrity of the stored data, meeting compliance standards and bolstering data protection.

## Integrated Services:

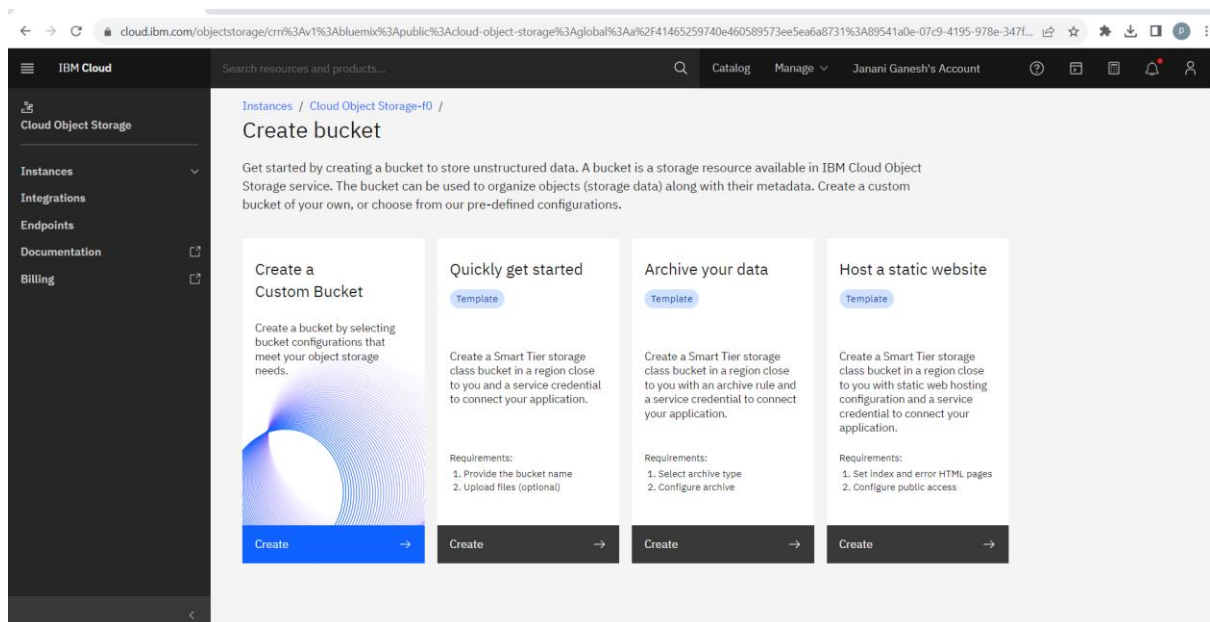
Seamlessly integrate Cloud Object Storage with other IBM Cloud services, enabling a cohesive ecosystem. This integration enhances the overall functionality of the application, providing a comprehensive solution for data storage and management.

## STEPS / SCREENSHOTS:

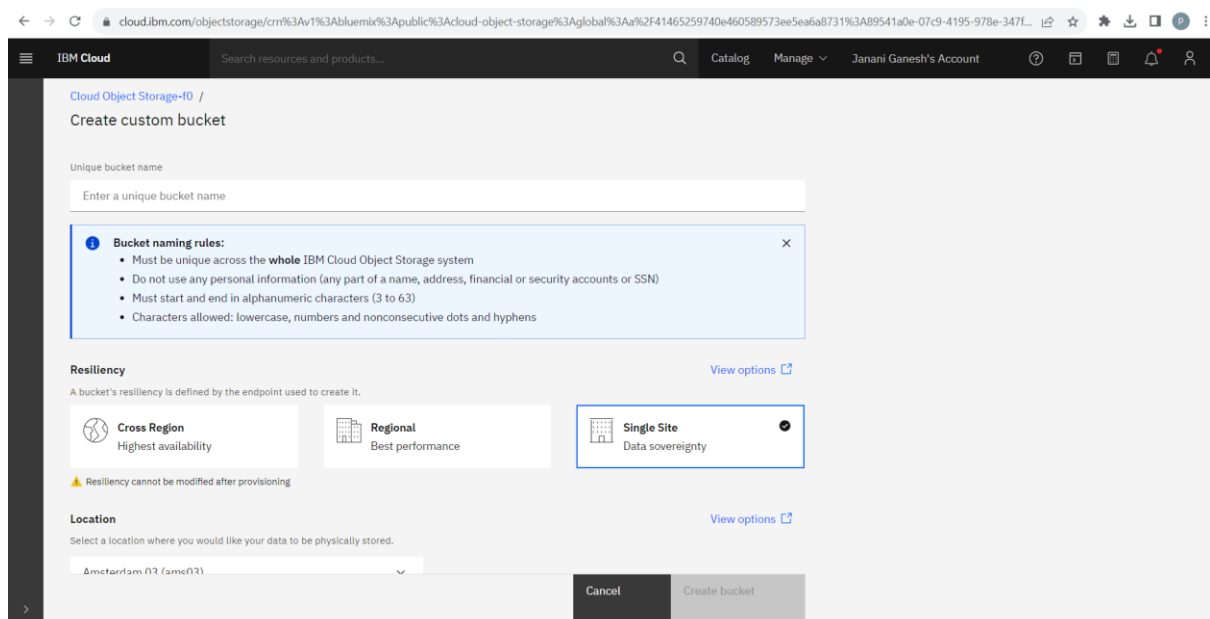
### 1. Catalog → Cloud Object Storage :



## 2. Create bucket instance :



## 3. Choose Resiliency options:



## 4. Give name for bucket :

Cloud Object Storage-10 /  
Create custom bucket

Unique bucket name

hiringmanagement

**Bucket naming rules:**

- Must be unique across the **whole** IBM Cloud Object Storage system
- Do not use any personal information (any part of a name, address, financial or security accounts or SSN)
- Must start and end in alphanumeric characters (3 to 63)
- Characters allowed: lowercase, numbers and nonconsecutive dots and hyphens

**Resiliency** [View options](#)

A bucket's resiliency is defined by the endpoint used to create it.

☒ **Cross Region**  
Highest availability

☐ **Regional**  
Best performance

☐ **Single Site**  
Data sovereignty

⚠ Resiliency cannot be modified after provisioning

**Location** [View options](#)

Select a location where you would like your data to be physically stored.

Amsterdam, NL (sme03)

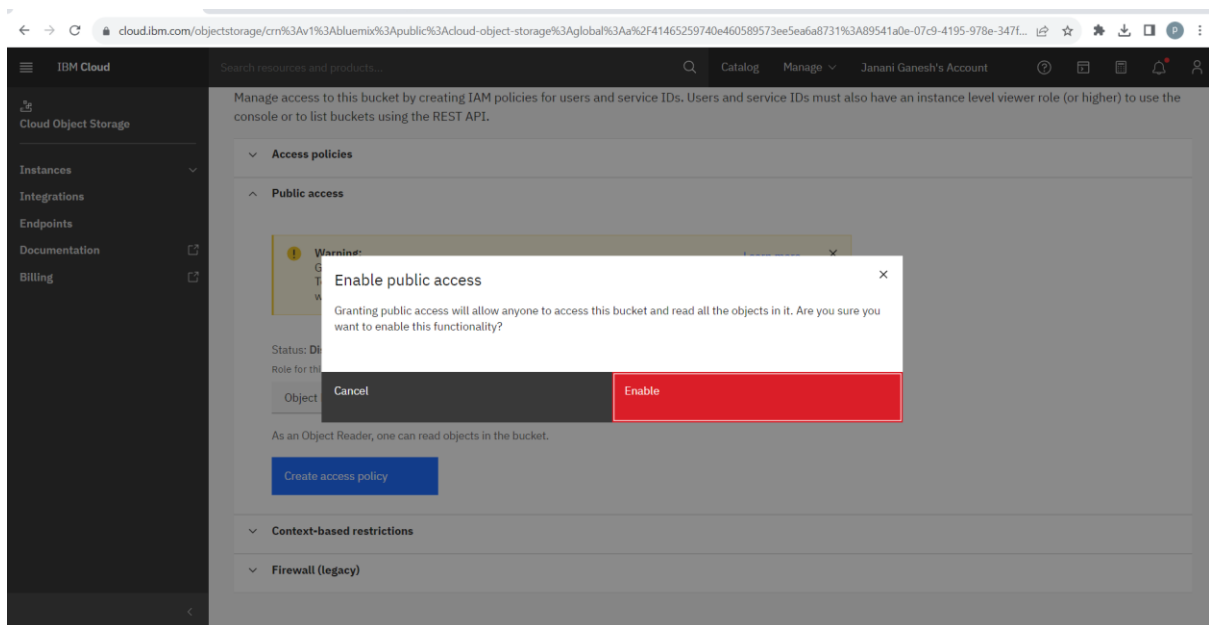
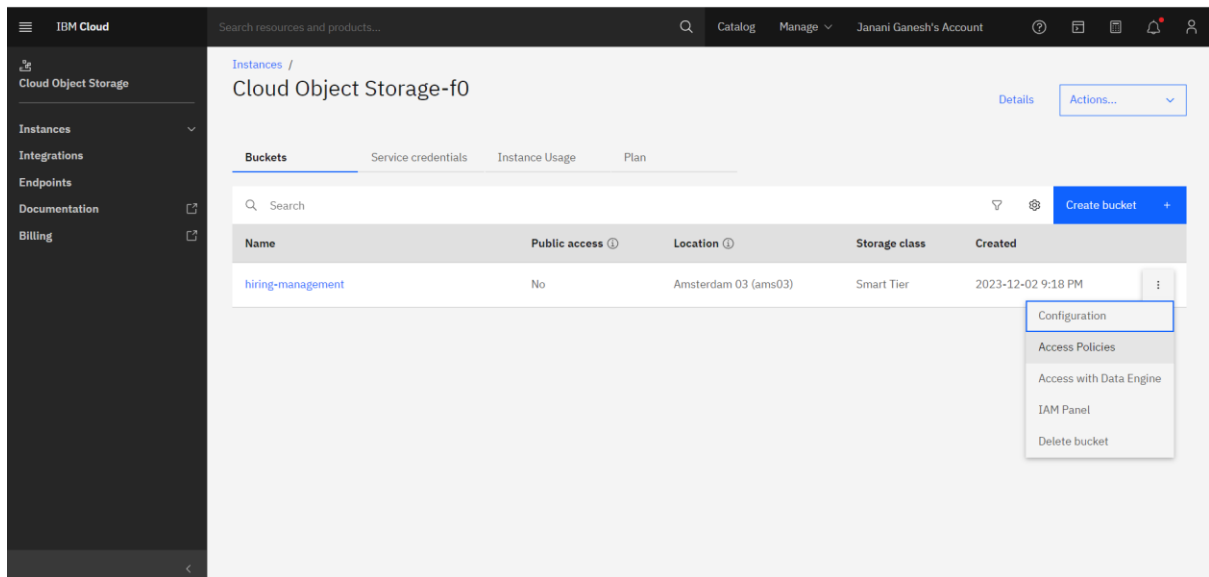
Cancel Create bucket

## 5. Upload the objects(of website to be deployed) in the bucket:

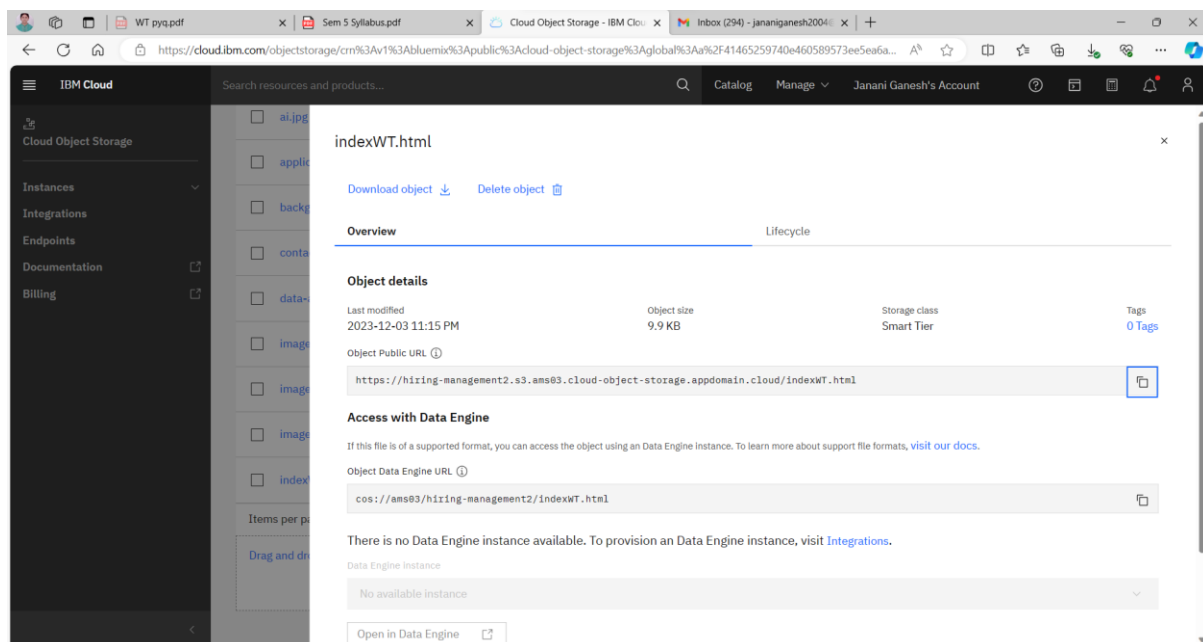
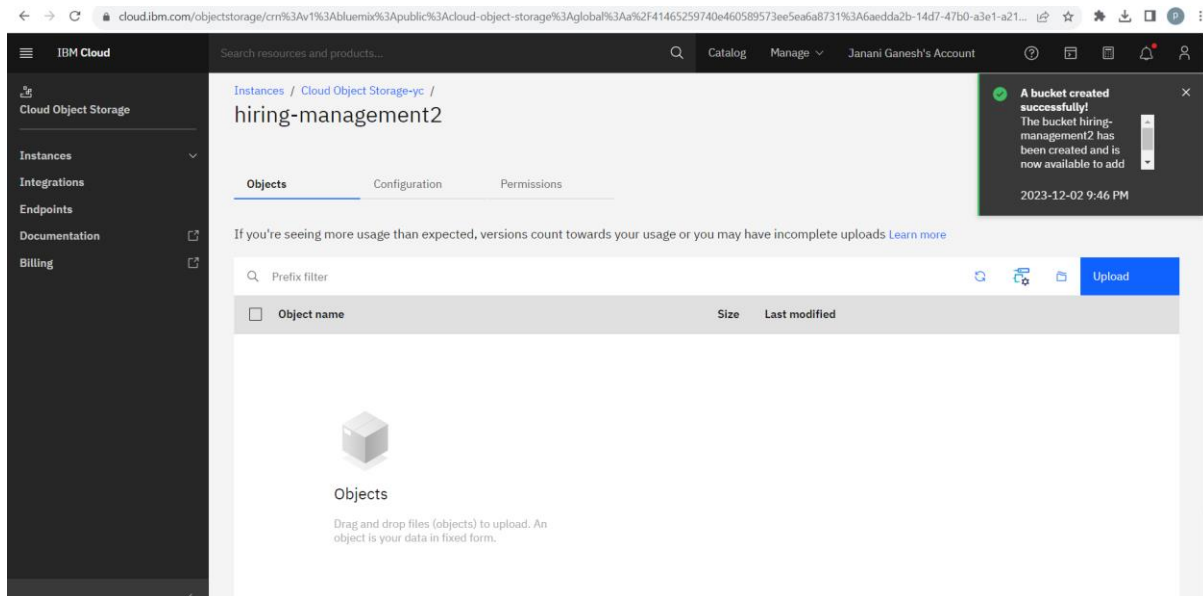
Object name	Size	Last modified
<input type="checkbox"/> admin_login.html	756 bytes	2023-12-02 9:24 PM
<input type="checkbox"/> ai.jpg	19.9 KB	2023-12-02 9:24 PM
<input type="checkbox"/> application.html	3.0 KB	2023-12-02 9:24 PM
<input type="checkbox"/> application.php	6.8 KB	2023-12-02 9:24 PM
<input type="checkbox"/> background-image.jpg	36.4 KB	2023-12-02 9:24 PM
<input type="checkbox"/> data-analyst.jpg	20.3 KB	2023-12-02 9:24 PM
<input type="checkbox"/> image1.jpg	6.0 KB	2023-12-02 9:24 PM
<input type="checkbox"/> image2.jpg	6.7 KB	2023-12-02 9:24 PM
<input type="checkbox"/> image3.jpg	7.7 KB	2023-12-02 9:24 PM
<input type="checkbox"/> indexWT.html	9.9 KB	2023-12-02 9:24 PM

Items per page: 10 1-10 of all items page 1

## 6. Configuring: (public access enabling)

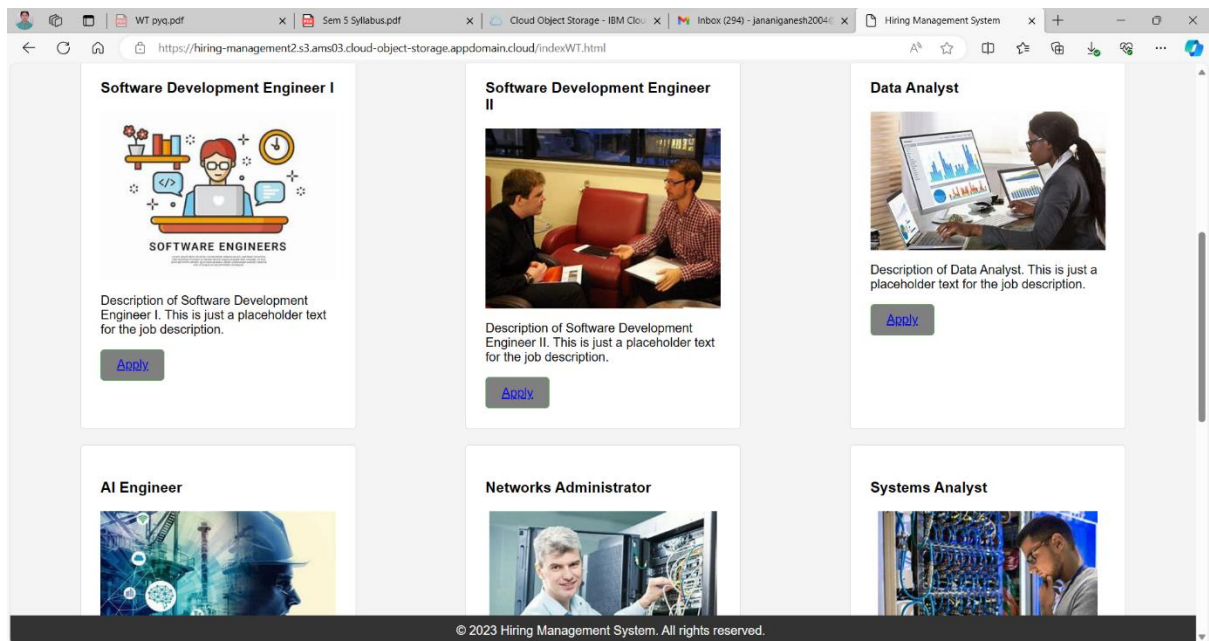
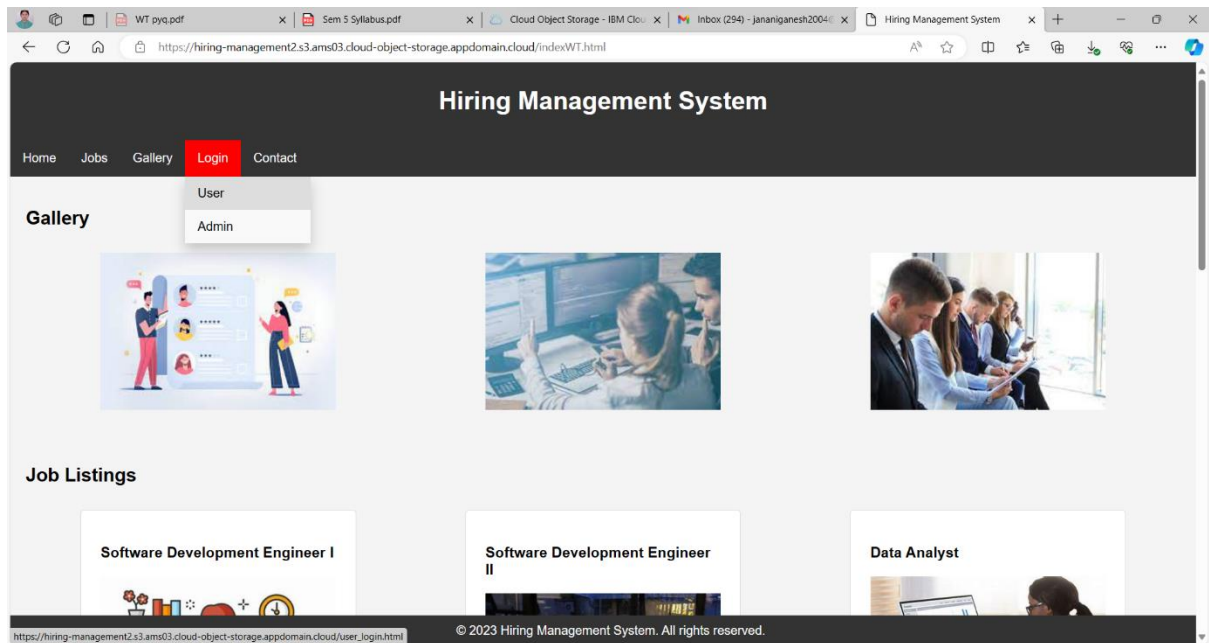


## 7. Copy the generated link, test the deployment :





## Home Page:



## Contact section :

WT.pyq.pdf | Sem 5 Syllabus.pdf | Cloud Object Storage - IBM Cloud | Inbox (294) - janiganesh2004@gmail.com | Hiring Management System

https://hiring-management2.s3.amazonaws.com/object-storage.appdomain.cloud/indexWT.html

Description of Data Analyst. This is just a placeholder text for the job description. [Apply](#)

Description of Data Analyst. This is just a placeholder text for the job description. [Apply](#)

Description of Data Analyst. This is just a placeholder text for the job description. [Apply](#)

### Contact Us

Name:

Email:

Message:

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WT.pyq.pdf | Sem 5 Syllabus.pdf | Cloud Object Storage - IBM Cloud | Inbox (294) - janiganesh2004@gmail.com | Form Submission Result

https://hiring-management2.s3.amazonaws.com/object-storage.appdomain.cloud/contactsub.html?name=Krupa+Janani&email=enkrupajanani2004%40gmail.com

## Thank You!

Name: Krupa Janani

Email: enkrupajanani2004@gmail.com

Message: hello this is cloud hosting

[Go to Home Page](#)

https://hiring-management2.s3.amazonaws.com/object-storage.appdomain.cloud/indexWT.html

## User Login section :

The image shows two screenshots of a web browser displaying a user login interface. The background of the page is a wooden surface with scattered wooden letter tiles and a yellow pencil.

**Top Screenshot:** The browser address bar shows the URL `https://puzzled-leaf-spear.glitch.me/user_login.html`. The login form is titled "User Login" and contains the following fields and buttons:

- Username :** A text input field with the value "user".
- Password :** A password input field with masked characters "...." and a toggle icon.
- Login** button.

**Bottom Screenshot:** The browser address bar shows the URL `https://hiring-management2.s3.amazonaws.com/cloud-object-storage/appdomain.cloud/user_login.html`. A modal dialog box is displayed with the following content:

- Header: "...ment2.s3.amazonaws.com/cloud-object-storage/appdomain.cloud says"
- Message: "Login successful!"
- OK** button.

Below the modal, the login form is partially visible, showing the **Password :** field with masked characters "...." and the **Login** button.

## Application form :

The image shows two screenshots of a web application. The top screenshot displays a 'Job Application' form for the position of 'SDE 1'. The form includes fields for Full Name (Krupa Janani G), Email address (enkrupajanani2004@gmail.com), Address (F1, Block 3, Sasi Homes, 6th Avenue, Banu Nagar, Pudur, Ambattur, Chennai - 53), City (CHENNAI), Zip (600053), Telephone (7305726954), and Start Date (01-02-2020). A CV file named 'krupa.docx' has been uploaded. A 'Submit' button is at the bottom. The bottom screenshot shows a 'Thank You!' confirmation page with the same details: Full Name: Krupa%20Janani%20G, Email: enkrupajanani2004%40gmail.com, Address: F1%2C%20Block%203%2C%20Sasi%20Homes%2C%206th%20Avenue%2C%20Banu%20Nagar%2C%20Pudur%2C%20Ambattur%2C%20Chennai%20-%2053, City: CHENNAI, Zip: 600053, Telephone: 7305726954, and Starting Date: 2020-02-01. A link to 'Go to Home Page' is provided at the bottom.

**Job Application**  
Applying for: SDE 1

**Full Name**  
Krupa Janani G

**Email address**  
enkrupajanani2004@gmail.com

**Address**  
F1, Block 3, Sasi Homes, 6th Avenue, Banu Nagar, Pudur, Ambattur, Chennai - 53

**City**  
CHENNAI

**Zip**  
600053

**Telephone**  
7305726954

**Start Date**  
01-02-2020

**Upload your CV:** Chosen file: krupa.docx

**Submit**

**Thank You!**

Full Name: Krupa%20Janani%20G  
Email: enkrupajanani2004%40gmail.com  
Address: F1%2C%20Block%203%2C%20Sasi%20Homes%2C%206th%20Avenue%2C%20Banu%20Nagar%2C%20Pudur%2C%20Ambattur%2C%20Chennai%20-%2053.  
City: CHENNAI  
Zip: 600053  
Telephone: 7305726954  
Starting Date: 2020-02-01

[Go to Home Page](#)

## Conclusion :

Thus, the simple Hiring Management System Website was deployed over cloud using IBM's Cloud Object Storage service.