

DEPARTMENT OF COMPUTER & SOFTWARE ENGINEERING

COLLEGE OF E&ME, NUST, RAWALPINDI



Subject Name Cloud Computing Project

SUBMITTED TO: Maj Abdul Basit

SUBMITTED BY:

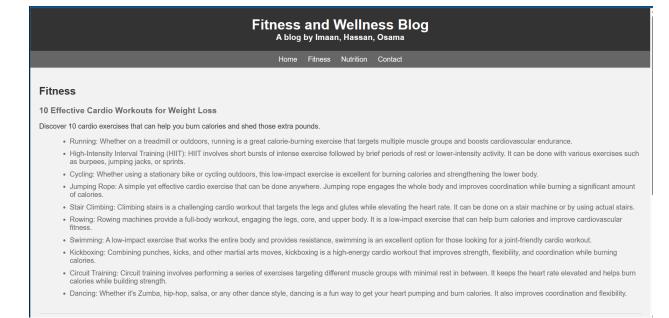
Student Name: Imaan Shahid Hassan Abrar Osama Mushtaq DE- 41 Dept CE

Screenshots of the website:

Home Page:



Fitness page:



Nutrition Page:

Fitness and Wellness Blog A blog by Imaan, Hassan, Osama
Home Fitness Nutrition Contact
Nutrition
5 Healthy and Delicious Breakfast Ideas
Start your day off right with these nutritious and tasty breakfast options
 Oatmeal with Fresh Berries: Start your day with a bowl of oatmeal topped with a handful of fresh berries for added antioxidants and natural sweetness. Avocado Toast: Spread mashed avocado on whole grain toast and top it with a sprinkle of sea salt, a drizzle of olive oil, and a squeeze of lemon juice. Greek Yogurt Parfait: Layer Greek yogurt with mixed berries, granola, and a drizzle of honey for a protein-packed and satisfying breakfast. Vegetable Omelette: Whip up a colorful omelette with sautéed vegetables like spinach, bell peppers, and mushrooms for a nutritious and protein-rich breakfast. Whole Grain Pancakes: Make fluffy pancakes using whole grain flour and serve them with a dollop of Greek yogurt, sliced bananas, and a drizzle of pure maple syrup. .
The Role of Protein in a Balanced Diet
Learn why protein is essential for your health and how to incorporate it into your meals.
Building and Repairing Tissues: Protein is essential for the growth, maintenance, and repair of body tissues, including muscles, organs, skin, and hair.
 Muscle Development and Strength: Adequate protein intake supports muscle development and strength, making it crucial for athletes, active individuals, and those involved in strength training.
 Enzyme Production and Function: Many enzymes responsible for various biochemical reactions in the body are made up of proteins. These enzymes are essential for digestion, metabolism, and other physiological processes.

Contact Us Page:



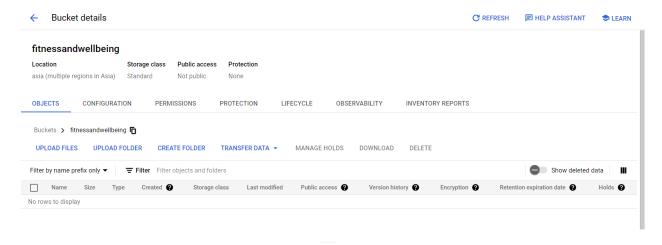
Explanation:

We created a fitness and well-being blog website for guiding fitness aspirers to gain insights. The website consists of 4 pages:

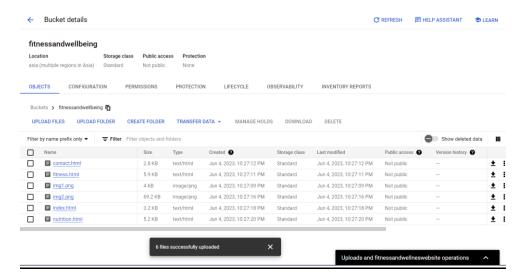
- Home Page: The purpose of the website is stated along with one image.
- Fitness Page: Different exercises are named, and their benefits are explained.
- Nutrition Page: The importance of healthy eating is emphasized and 5 healthy breakfast options are given.
- Contact Us Page: This serves to allow the user to send feedback or get into contact with the blog owners.

Documentation:

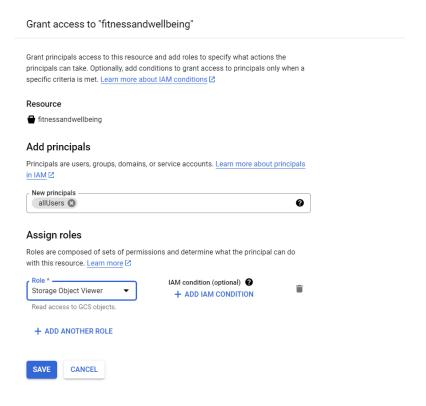
Step 1: A cloud storage bucket was created:



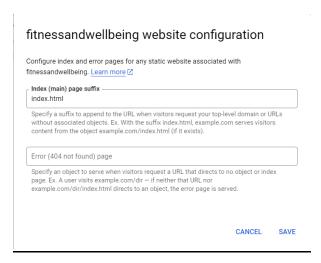
Step 2: The HTML files were uploaded.



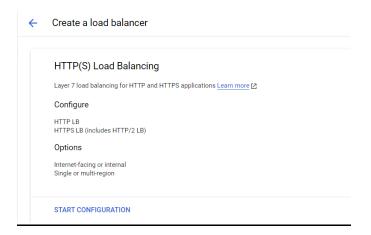
Step 3: The storage bucket was given public access



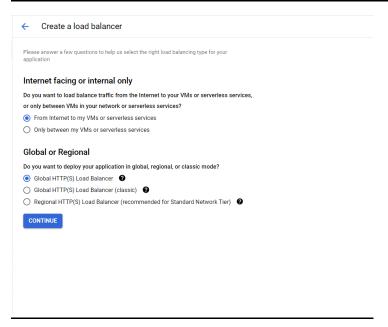
Step 4: Website Configuration

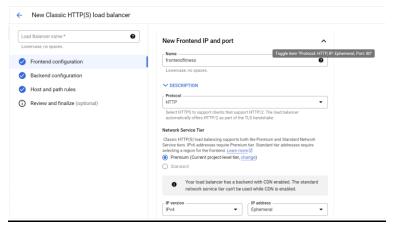


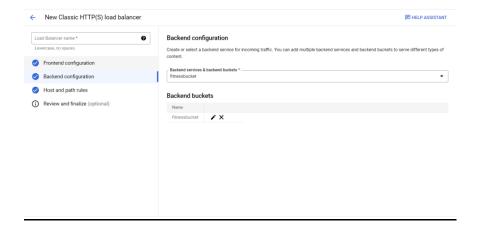
Step 5: Create a load balancer for scalability.



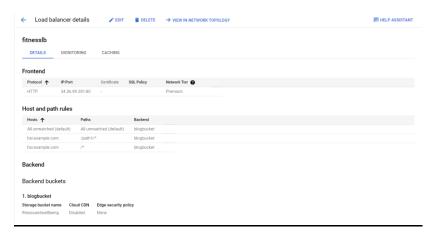
Step 6: Configure its Backend and Frontend servers



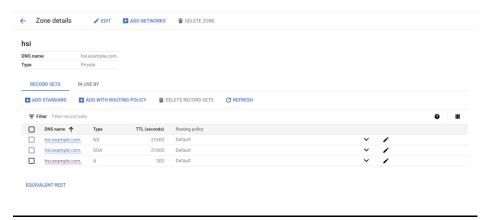




Load Balancer details:



Step 7: Creating a private DNS zone for access on VM



Challenges:

- <u>Tried creating instance groups and instance templates, however the</u> instances were being shown as unhealthy from the health checks.
- The VM instances were not starting.

• Domain name, hosting was not available because of high pricing.

Public URL of the website:

https://storage.googleapis.com/fitnessandwellbeing/index.html

IP address of load balancer:

34.36.99.201:80

<u>Future Work: A domain/hosting name could be obtained to map to this IP address for public hosting.</u>