

UNIVERSITY PARTNER



4CS017 – Internet Software Architecture

Report Writing

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1.A short reflective report

The topic of this project is weather application. It shows any city humidity, temperature, clouds, and weather. In this project, we first construct a database called assignment with a table called weather storage where we may store data that was retrieved from a remote weather API and stored locally.

2.General work flow

The data is used by the web interface after it has been saved to our local database. To improve the user experience, we used local storage to store the data we received from the distant database, then sent the request to the local database every 10 seconds rather than caching it.

4.Strengths

It reduces network traffic while also reducing network congestion. By dispersing the data, it decreases the burden on the remote web server. It reduces the system's source. If user put which country, state, and city data then it will automatically show the data on the screen.

5.What Is webhosting?

Web hosting is a service that allows people and business to publish a website or web page on the Internet. A web host, also known as a web hosting service provider, is a company that offers the technology and services required to access a website or webpage on the Internet. Websites are kept on servers, which are dedicated computers. All Internet visitors need to do is put your website URL or domain into their browser to visit your site. Their machine will then establish a connection with your server, and your websites will be transmitted to them through browser.

6.How did I host my weather-app?

First, I did write my codes then I fetch api's on my code after coding designing and putting some logic on my weather app, I searched on the YouTube on how can I host my weather app then I found app.netfy.com . After exploring It was very easy to host my website on netfy.com just needed drag and drop of my files and I did it and after drag and drop I could send link to any one that would like to see my weather app.

7.Weather App UML Diagram

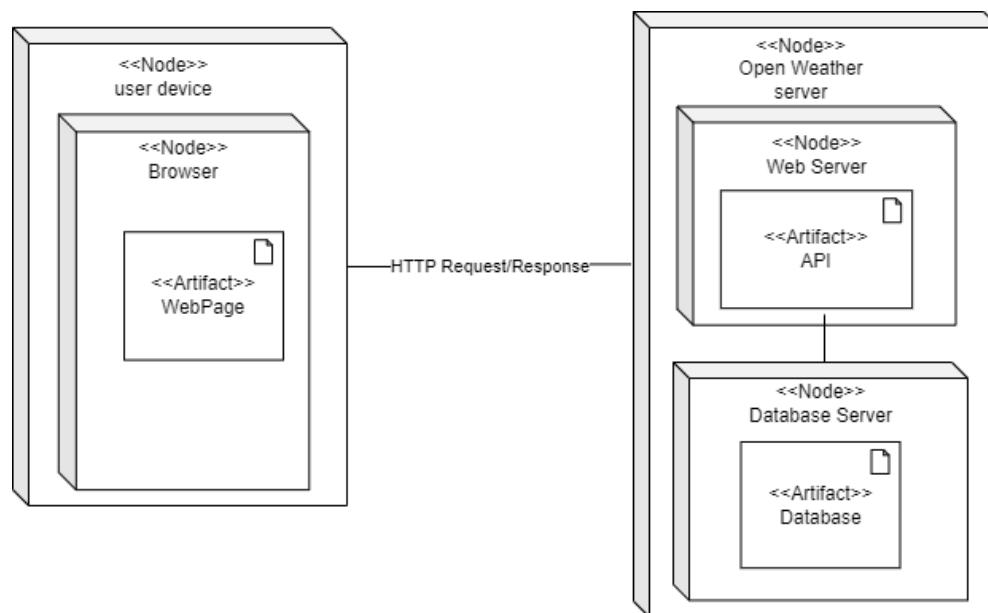


Figure 1: UML Diagram

How Does Web Hosting Work?

When we want to start a business in the real world, you need a physical location to set up, store, and sell your products. When it comes to creating a website in the digital world, the same rules apply.

Website is made up of a sequence of files, graphics, and HTML code when you start an online business. These files occupy space and require a home. Your files would just sit on your computer if you didn't have an internet home, and no one would ever view them. A hosting company will give you a space on a web server to store all of your files and will be in charge of sending your website's files as soon as a browser types in your domain name.

You are merely renting storage space on the internet when you pay for hosting services, just as you would a real store for your business.

What is a Domain Name?

Let's start with domain names before getting into more detail. You bought a domain name

when you initially considered launching an internet business. A domain name is your company's internet address.

Consider this: if you rent space for your business at a physical location, you tell consumers your street address so they can locate you. You give your domain name to consumers while renting internet space.

Domain name is transformed to an IP address whenever someone fills it in. The hosting firm then locates all of the files associated with your IP address and returns all of the images, videos, and text that comprise your website.

How to Choose a Hosting Provider

When someone fills in your domain name, it is converted to an IP address. The hosting company then locates all of the files connected with your IP address and returns all of your website's images, videos, and text.

What type of website are you building? eCommerce, blog, portfolio, etc.

What is the bandwidth required to run your website, based on the type of website?

Do you have the ability to establish email addresses for your domain?

What kinds of hosting solutions are there?

Are SSL certificates available?

After choosing a hosting provider, completing your domain registration is easy! Often times your web host can also be your domain registrar.

Types of Web Hosting

Bluehost, Namecheap, and godaddy.com are web hosting providers that offer a choice of hosting options to fit our needs if you are wanting to host a website for your small business. After you've decided on a provider, you'll need to set up a hosting account and figure out which form of hosting is ideal for your site.

Shared Hosting

The most prevalent sort of web hosting is shared hosting, which is suited for most online company owners. Several clients share storage space on a single powerful server with shared hosting. Shared hosting has various advantages, including:

- Cost-effectiveness – Sharing server space is substantially less expensive than renting the complete computer.
- Convenience – Our server is preconfigured, well-organized, and simple to operate, and your hosting company takes care of all maintenance and security upgrades.

Dedicated Hosting

If you pick a dedicated hosting service, instead of sharing space, you will have your own server. Dedicated hosting has the following benefits:

- Customization – We may tailor the software and hardware to your own requirements.
- Unlimited Resources — Because you don't share the server with anyone, you have complete control over the storage space.
- Complete control – We have complete control over the setting.

VPS Hosting

Virtual Private Server (VPS) hosting offers all of the benefits of a dedicated server at a fraction of the cost. Here are some of the most compelling arguments for VPS hosting:

- Functionality — VPS hosting is based on cPanel and includes various intuitive features for simple navigation.
- One-click features – We can install WordPress, Magento, and Drupal with a single click.
- Simple site navigation – Site maintenance is a breeze thanks to the clear interface.

Cloud Hosting

Cloud hosting is frequently regarded as the most dependable of all the providers. Rather of relying on a single server's storage space, it draws power from several sources, ensuring that you never experience downtime. Other advantages include:

- Scalability – We can always expand your cloud storage.
- Unlimited bandwidth – We won't have to worry about your website going down due to a server outage.

My Weather App link:

<https://stirring-gnome-3ab475.netlify.app>