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Introduction to Nimbus Platform

Nimbus Platform:

- **What it is**: A decentralized cloud service where people share unused computer resources (like storage or processing power) with others.
- **How it works**: Uses blockchain technology to securely connect people and ensure fair transactions.
- **Benefits**:
    - Reduces reliance on big cloud providers (like AWS, Google Cloud).
    - People can earn by sharing their unused resources.
    - Secure and cost-effective cloud services.

Introduction to Web Development and HTML

Web Development and HTML:

- **Web Development**: The process of building websites and web apps.
- **HTML (Hypertext Markup Language)**: The basic language used to structure content on the web.
    - **What it does**: Defines headings, paragraphs, images, links, and other elements on a webpage.
    - **How it works**: HTML uses tags to markup content, such as <h1> for headings and <p> for paragraphs.

- **Basic HTML Structure**:
```
<!DOCTYPE html>
<html>
<head>
  <title>Page Title</title>
 </head>
 <body>
  <h1>Welcome to My Webpage</h1>
  <p>This is a simple paragraph. </p>
 </body>
</html>
```

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HTML Forms and Semantic HTML

HTML Forms:

- **HTML Forms** are used to collect input from users. Forms are essential for interactive websites, such as when users submit data (e.g., registration or login forms).
- **Basic HTML Form:**
  ```
  <form action="/submit" method="POST">
   <label for="name">Name:</label>
   <input type="text" id="name" name="name">
   <br>
   <label for="email">Email:</label>
   <input type="email" id="email" name="email">
   <br>
   <input type="submit" value="Submit">
  </form>
  ```

- **Form Elements:** Common form elements include:
  - `<input>`: For user input (e.g., text, email, password).
  - `<textarea>`: For multi-line input.
  - `<button>`: For submitting the form.
  - `<select>`: For drop-down menus.
- **Form Attributes:**
  - **action:** Specifies where to send the form data.
  - **method:** Specifies the HTTP method to use (GET or POST).

Semantic HTML:

- This just means using HTML tags that make sense and describe the content well. Instead of just adding random tags everywhere, **semantic HTML** helps organize the page better and makes it easier for people and machines (like search engines or screen readers) to understand what's on the page.
- **Examples of semantic tags:**
  - **<header>:** Defines a header for a document or section.
  - **<article>:** Represents independent content.
  - **<section>:** Defines a section of content.
  - **<footer>:** Represents a footer for a document or section.
  - **<nav>:** Represents navigation links.

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- **Example of Semantic HTML:**

```
<!DOCTYPE html>
<html>
 <head>
  <title>Semantic HTML Example</title>
 </head>
 <body>
  <header>
   <h1>Welcome to My Website</h1>
   <nav>
    <ul>
     <li><a href="#home">Home</a></li>
     <li><a href="#about">About</a></li>
    </ul>
   </nav>
  </header>

  <main>
   <article>
    <h2>Article Title</h2>
    <p>This is an article about web development.</p>
   </article>
  </main>

  <footer>
   <p>&copy; 2024 Web Development Tutorial by Het Dabhi</p>
  </footer>
 </body>
</html>
```