

Web Application Development Assignment

Department of Information Technology

Subject: Web Application Development (2024–25)

Topic: Happi

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Q.1) Illustrate the need for Happi package

Happi is an API management platform that provides access to a range of free and paid APIs across various domains, such as weather, dictionary, music, movie, and more. It is especially useful for developers who want to quickly integrate reliable API services without building them from scratch.

The need for Happi arises due to:

- **Simplified API Access:** Developers can use a single key and dashboard to manage and explore various APIs.
- **Time Efficiency:** Reduces the need to search, evaluate, and test APIs from different providers.
- **Reliable Sources:** Provides verified and ready-to-use endpoints.
- **Easy Integration:** The documentation and endpoints are developer-friendly and easy to implement.
- **Scalability:** Useful in projects ranging from personal apps to enterprise-level services.

In summary, Happi serves as a valuable tool for accelerating development through easy and organized access to diverse APIs.

Q.2) Implement a small application which will make use of the mentioned package (I/p, O/p)

Here is an example of a small application that uses the Happi Music API to search for an artist:

Step 1: Sign Up and Get API Key from Happi.dev

Visit <https://happi.dev> and create an account to obtain your API key.

Step 2: Install Axios (for API requests)

```
npm install axios
```

Step 3: Create a JavaScript File (searchArtist.js)

```
const axios = require('axios');

const API_KEY = 'your_happi_api_key';
const artist = 'Arijit Singh';

axios.get(`https://api.happi.dev/v1/music?q=${artist}&limit=1&apikey=${API_KEY}`)
  .then(response => {
    const result = response.data.result[0];
    console.log(`Artist: ${result.artist}\`);
    console.log(`Track: ${result.track}\`);
  })
  .catch(error => {
    console.error('Error fetching data:', error);
  });
```

Step 4: Run the Script

```
node searchArtist.js
```

Expected Output:

```
Artist: Arijit Singh
Track: Tum Hi Ho
```

Q.3) Illustrate the need for code of ethics

A code of ethics is a critical element in the field of software and web development. It ensures that developers uphold integrity, fairness, and accountability in their professional work.

The need for a Code of Ethics:

- **User Data Protection:** Ensures confidentiality and secure use of sensitive information.
- **Avoiding Bias:** Promotes equality and fairness in software usage and functionality.

- **Transparency:** Helps build trust through honest and open communication with users and clients.
- **Professional Responsibility:** Encourages developers to be accountable for the quality and impact of their work.
- **Minimizing Harm:** Developers are expected to anticipate and prevent misuse of software.

By following a strong ethical code, software professionals can contribute positively to society and ensure responsible use of technology.