**CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY**

**Chandubhai S Patel Institute of Technology**

**U & P U. Patel Department of Computer Engineering**

**Subject Name:** Advanced Web Technology

**Subject Code:** CE354

**Semester:** 5th **Academic Year:** 2023-24

Practical 8

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| **Aim:** | **Create a JavaScript module that fetches data from an API using the fetch() function and exports the retrieved data. Create an async function getUsers(names), that gets an array of GitHub logins, fetches the users from GitHub and returns an array of GitHub users. The GitHub url with user information for the given USERNAME is: https://api.github.com/users/USERNAME. There’s a test example in the sandbox. Important details:**  **• There should be one fetch request per user.**  **• Requests shouldn’t wait for each other. So that the data arrives as soon as possible.**  **• If any request fails, or if there’s no such user, the function should return null in the resulting array.** |
| **Code:** | *// github-api.js*  async function fetchUserData(*username*) {    const url = `https://api.github.com/users/${*username*}`;    try {      const response = await fetch(url);      if (!response.ok) {        return null;      }      const userData = await response.json();      return userData;    } catch (error) {      return null;    }  }  export async function getUsers(*names*) {    const userPromises = *names*.map(async (*name*) => {      const userData = await fetchUserData(*name*);      return userData;    });    const users = await Promise.all(userPromises);    return users;  }  *// main file*  import { getUsers } from "./github-api.js";  async function main() {    const usernames = ["ronak-bhalgami", "006darsh", "ron-42"];    try {      const githubUsers = await getUsers(usernames);      githubUsers.forEach((*user*, *index*) => {        if (*user* === null) {          console.log(`User ${usernames[*index*]} not found or request failed.`);        } else {          console.log(`User ${*user*.login}: ${*user*.name}`);        }      });    } catch (error) {      console.error("Error fetching GitHub users:", error);    }  }  main(); |
| **Output:** |  |