

## **HACKATHON 2 LONG COURSE FIRST BATCH SECOND SEMESTER 2022/2023**

### **HACKATHON PROJECT**

Read all the instructions carefully.

Name of project: **OTAHUB**

#### **GENERAL NATURE OF THE PROJECT**

OTAHUB is a web application that provides an online hub for Otukpo Tech Academy students, where ideas and resources are shared for learning and interaction purpose so as to enhance Otukpo Tech Academy community and create a bond amongst present and past students.

The application would provide for the registration of students, and also a community section for interaction amongst students.

More details as to the application are provided below.

#### **TECHNOLOGIES**

The following technologies **MUST** be used to build OTAHUB (You can decide to use more others based on your choice)

1. Html
2. Bootstrap
3. Vue.js
4. PHP
5. MySql

#### **SECTIONS OF OTAHUB**

##### **1. FRONTEND SECTION (VUE.JS)**

You should have a single page (index.html). The contents of this page should be segregated into sections. Each section should be done on different components.

1. The home section should contain a landing page beautifully designed. It should have the name of the application (OTUKPO TECH ACADEMY HUB), a short caption on team/community, and should also have navigation links for easy navigation to each section.

2. The about us section should contain information about Otukpo Tech Academy, and its aims and objectives.

3. The contact section should contain a form which should be linked to Otukpo Tech email where other students can contact the Academy. It should also contain the location of the Academy.

## **2. REGISTRATION SECTION**

Using html, bootstrap and php (not limited to these), create a registration page with email, password and confirm password inputs. The following must be implemented:

- Prevent the submission of empty inputs
- Validate email to ensure only email format are accepted in the input
- Ensure password and confirm password matches
- Length of password should not be less than 5
- Check to ensure email is not already registered

## **3. LOGIN SECTION**

Create a login page to authenticate registered students. The following should be done:

- Prevent the submission of empty inputs
- Ensure submitted email and password matches that in database before login is possible
- Validate email input to ensure only email format are accepted
- When login is a success, redirect to dashboard page

## **4. DASHBOARD SECTION**

After a successful login, students should be directed to this page. This page should have the following:

- Prevent access to this page if student is not logged in
- Show a welcome text/message
- Display email of student on the dashboard

- Have a logout button to logout users
- Have a link to the profile and community page
- Add other useful features and information

## 5. DATABASE STRUCTURE

- Create a database with the name of **otahub**
- Create a **users** table to store registered students. Columns should include **id, email and password**.
- Create a **profiles** table to store students profile information. Columns should include **id, userid, fullname, username, email, phone, gender, sessionOfAdmission, and image**. The value of userid column should be the id of user from the users table.
- Create a **posts** table to store posts made by students. Columns should include **id, userid, message, attachment, dateCreated**. The dateCreated column should be on current timestamp so as to automatically set the date when a post is created from the form.

## 6. PROFILE SECTION

Create a profile section to create and update students profile. This section should have the following:

- Prevent access to this page if student is not logged in
- Navigation links to dashboard and community page
- Inputs for userid (hidden), fullname, username, email (hidden), phone, gender, sessionOfAdmission and image
- Prevent submission of empty inputs
- Validate fullname to allow only letters, validate username to allow only letters, validate phone to allow only numbers, validate image to accept only images, validate image to prevent upload of images above 1MB
- Check if student profile has been created (inserted) already in the profiles table in database; if profile has been inserted already then update the profile, else insert the profile in the profiles table. (This is to prevent a student from having multiple profile records in the database table).

- Student should be able to update their profile information (Eg phone) without having to reupload their image.
- If student profile already exists in database, then fetch the profile details and display them individually (with the exception of image) as the values of the inputs on the profile page, so as not to retype all the profile details when an update is to be made.

## 7. COMMUNITY SECTION

This section forms the basis for the OTAHUB application. Create a community section for interaction and sharing of ideas. The following should be implemented:

- Prevent access to this page if student is not logged in
- Have a textarea input for typing message/post, have an input for attaching a file when making a post, and a hidden input for userid
- Textarea should be required, but file input should not be required.
- When a post has been made insert the post in the posts table in database
- Fetch all students posts from the posts table and display them on the community page. Your text area can be above or below displayed posts. Anytime any registered and logged in student makes a post, it appears on this page.

## INSTRUCTIONS

1. Project lasts for a week, 24th to 29th April, 2023.
2. Groupings has been done already, find out the group you fall in and participate. It's a **MUST** that everyone participates. If you don't participate and for one reason or the other your group wins you will be exempted from the reward allotted to the winning group.
3. In order to achieve the project, you're free to research and consult any helpful resource.
4. You **MUST** create a GitHub repository, commit your codes and send the repository link to my email (danielomajali@gmail.com) with your group number and group members full name on or before 29th April.

## **OTHER INSTRUCTIONS ON VUE JS**

1. Use CSS appropriately to beautify your works.
2. Implementation of bootstrap is compulsory as your pages should be structured and designed using bootstrap.
3. You must understand that Vue is a component-based framework. No work should be done directly on your html pages. All your designs and styles should be done on various components which are to be imported to your html pages for display.
4. All your components should be imported into your App.vue where they should be displayed.
5. Make sure that all links in your projects are functional as they should not be a link which doesn't have a reference.

**GOOD LUCK!!**