Final Project Phase 1 Team 01

Git repo: https://github.com/ChenyuSu624/CST438-FinalProject

Questions:

1. **The major use cases for this site will include:**

   a. Logging Dives

      i. In order to log a dive you need to choose a diver

      ii. Provide dive information

      iii. Creates multiple reports

         1. Dive statistics

            a. A calendar of how many dives were done on certain days.

               i. Can also filter by site and diver

         2. Dive statistics (again?)

            a. Can filter by year and type of dive

            b. Shows how many minutes were spent on dives, how many dives were done, and how many divers participated in a given year

               i. Also shows different time increments for different dive types, depths, and training

   b. Logging Training

      i. Logs the type of training, instructor, participants, date completed, and whether or not the training expires.

   c. Add User

      i. Different users have different needs.

      ii. These users can not make log in info?

      iii. Creates report with all users and their information

   d. Add equipment

      i. Add new diving equipment that divers get

      ii. Creates a report of all the equipment signed to different divers and when it needs to be serviced.

   e. Add Inventory

      i. Has category, name, how much you have, when you need to order more

      ii. Possible notification system for when the user needs to order more

      iii. Creates report of all the inventory, the categories, and the quantity

   f. Administration

       i.   Approve and reject divers that have applied to use the site.

      ii.   Suspend and restore current user of the site

    iii.   Give different permissions to users

g. Configuration

       i.   Change requirements for adding new logs

      ii.   Add / Remove / Edit

               1. Diving modes

               2. Tasks

               3. Specialized Environment

               4. Specific Sites

               5. Diving Locations

               6. Decompression Planning

               7. Breathing Gas

               8. General Notifications

2. Pages / Modules

a. /login

       i.   User authentication

b. /home

       i.   General home page where you can signout and navigate to the rest of the site.

c. /divelog

       i.   Log new dives

d. /traininglog

       i.   Log new training

e. /adduser

       i.   Add new users

f. /addequipment

       i.   Add new equipment

g. /addinventory

       i.   Add new inventory types

h. /divereport

       i.   Generate a report on the given dives in the database (see logging dives report)

      ii.   Make this more detailed, so we do not need two that are essentially the same thing

        i.   /admin

            i.   Only administrators can see / use this part

            ii. Add, remove, approve, reject, suspend, and restore divers

        j. /configure

            i.   Only administrators can see / use this part

            ii. Change requirements for logging things

        k. /users

            i.   See a list of all different users of the site

        l. /equipment

            i.   A list of all the different equipment that divers have

        m. /inventory

            i.   A list of all of the divers' inventories.

3.   Routes:

    1.   Page: 'Login'
       Children:

        a.   "Login"
            Path: Dashboard

        b.   "Forget Password?"
            Path: Password Assistance

        c.   "Diver Registration"
            Path: Diver Registration

            i.   "Select Organization"
                 Path: (Each Registration Page)

        d.   "Organization Registration"
            Path: Site Registration

    2.   Page: 'Dashboard'
       Children:

        a.   "Log Dives"
            Path: Dive Log

        b.   "Log Training"
            Path: Users/New Training

        c.   "Add New User"
            Path: Users/New User

        d.   "Add New Equipment"
            Path: Equipment/New Equipment

e. "Add New Inventory"
   Path: Inventory/New Inventory

f. "Service"
   Path: Equipment Service Report

g. "Trainings"
   Path: User Training Report

h. "Physicals"
   Path: User Physical-Training Report

i. "Low Inventory"
   Path: Inventory Report

j. "Repots"
   Path: User's report by different categories

4. Data Storage Requirements:

1. Page: Login

   a. User info : username & password

2. Page: Diver Registration

   a. Organization : different categories

      i. Store username, first name, password, and e-mail.

3. Page: Site Registration

   i. Store Organization's name, Administrator's id, password, and e-mail, and Registration key.

4. Page: Log Dives

   a. Select Diver's name, edit chosen diver's information.

   b. Store information filled by applicant.

   c. Review & Post information to the "Dive Log History" table.

5. Page: Log Training

   a. Store User's new training record

      i. Course/training, instructors, participants, completed date, and notes.

      ii. Upload an attachment.

6. Page: Add User

   a. Store new user's record

      i. General info: first/last name, e-mail, birthday, phone, and classification.

      ii. Status:Diver/Trainer/Technician

      iii. Emergency Contact

7.   Page: New Equipment
    a.   Select a target equipment by category. And assign it to an active user
    b.   Update Equipment's information, such as label and notes.
8.   Page: New Inventory Item
    a.   Store new inventory record
        i.   Category, name, quantity, limited order quantity, and description.
9.   Page: Service, Trainings, Physicals, Low Inventory
    a.   Review information and summarize into a report which will be shown on the site.

5.   **What kinds of services will the site have?**
    a.   Item reviews
    -   Customers can ask about the items and write a review for it.
    b.   Login
    -   Administrator
        •   Administrator could delete the inappropriate reviews and questions about items
    -   Customers
        •   Customers can create a account with their email
    c.   Cart
    -   Store items into the cart
    d.   Checkout
    -   Checkout service with debit or credit card by using API
    e.   Tracking items
    -   Tracking delivering item when items are paid
    -   Showing the process of delivery

6.   **What will your team do to improve the existing functionality?**
    a.   Front-end
    -   Design the website more clean
    b.   Back-end
    -   Adding Items in the database

7.   **Questions for MBARI Who exactly is supposed to use this site?**
    a.   Is it only MBARI employees who will add divers and update all the information?
    b.   Can divers register on their own, update their information and log in dives?

    c.   Do we need to account for different types of users with different levels of access?

Contributions:

Sprint 1:

Aria and Chenyu: Set up front end "skeleton" that includes all of the needed functionalities.

Aaron and Mooyoung: Create the back-end for user authentication and creation.

Sprint 2:

Aria and Chenyu: Complete the front end modules

Aaron and Mooyoung: Finish the back-end and report creation / logic.

Sprint 3:

Everyone: Finish and polish everything. Put everything together.

Sprint 4:

Everyone: Work on and practice presentation.