

WEB DESIGN COMPETITION

1. **Introduction.** Bangladesh University of Professionals (BUP) is one of the most prestigious public universities in Bangladesh. It always offers a high-quality academic experience for all students. BUP believes students' achievements are always valued by the employers and will enable themselves for further study. Hence, nurturing the students' creativity is one of the most exciting parts of BUP. Keeping that in mind, Department of Information & Communication Technology (ICT), Faculty of Science & Technology (FST), BUP is going to launch two web design competitions. The competition is intended for two groups; one for Alumni and the other for BUP Cultural Forum.

a. Alumni of this university are creating milestones in different fields, both in home and abroad. Since they have passed out of the university, they left no stone unturned to bring out their better selves. Freshers and recent graduates will be able to make their path easier towards their goals if they obtain information from our experienced alumni.

b. Another web design competition is for BUP Cultural Forum, biggest platform of BUP students to exhibit and upgrade their skills in different forms of Arts. This forum is highly committed towards Bengali culture and tradition. At the same time, it is respectful to all other cultural sectors of the world. From the beginning days of BUP, the forum is on the lead of University's cultural arena by organizing different events and programs.

2. **General Guidelines.**

a. **Who can participate.** All Students of BUP can participate in this Web Design Competition, either individually or as a team.

b. **Team Size.** Maximum 4.

c. **Medium of Competition.** Both Online and in-person. 1st phase of the competition will be in online. Code will be submitted to the judges through virtual platform with presentation. In 2nd phase, 5 nominated teams from each category will be selected for the Hackathon (2-day long event), which will be performed in the BUP campus. Of these submitted designs, judges will nominate 2 teams from each category for the final presentation.

d. **Medium for Submitting Web Design.** From a web portal developed by BUP. All codes to be submitted with the user manual.

e. **Promotion of Competition.** Facebook, Email, BUP noticeboard.

f. **Initial design submission.** 06th November 2020 by 2359 hrs.

g. **Final competition (Hackathon) on-campus.** From 08th November at 0800 hrs to 09th November 1400 hrs.

- h. **Final Presentation.** On-campus, selected 4 teams, on 11 November, 1000 hrs to 1200 hrs (30 mins to each team).
- i. **Final Result.** From each category, one best team will be selected, and will be announced on 11th November 1400 to 1600 hrs.
- j. **Prize Money.** 50,000 Tk (Fifty Thousand Taka Only) for each team.
- k. **Number of Judges.** (to be nominated)
 - (1) One Engineer from Software Industry
 - (2) One faculty member from other university
 - (3) One internal faculty member (SE/CSE) from department of ICT, FST, BUP
 - (4) One from ICT Centre, BUP
- l. **Judges Honorarium.** 10,000 Tk (Ten Thousand Taka Only) each.

3. **General Coding Guidelines.**

- a. **Language.** PHP is the preferable language for structuring the backend of the website. Any PHP framework like Laravel, Codeigniter is preferable over raw coding. In some cases, Python can be accepted.
- b. **Database.** Mysql database is preferable. Database must be clean and clearly understandable.
- c. **Optimization.** The website needs to be fast and responsive. To achieve this, try to run as much code as possible in client side rather than the server side.
- d. **Compatibility.** The website must be dynamic and responsive. It should be working smoothly in both mobile and computer. The web elements should be capable of changing appearance based on the client's device.
- e. **Code Clean.** The code should be clean. Comments and documentation should be added for the reusability of the website.
- f. **Testing.** Basic testing like Unit testing, Load testing should be done by the developer.

4. **Specific Coding Requirements.**

- a. **Alumni.** By analyzing the recent events and activities, a website for Alumni should be designed considering the following obvious functional features:
 - (1) **Blog.** In case of the creation of blog, the first feature should be that one can give post into the blog and the admin of the blog will give permission to be

posted or not. It is expected to add contents namely picture, text, and video. Users here can comment on the posts. Posts can be surfed in category or in an orderly manner.

(2) **Batch and Faculty wise Student Database**. Currently, in BUP, there are four faculties titled as Faculty of Science and Technology (FST), Faculty of Business Studies (FBS), Faculty of Arts and Social Sciences (FASS), Faculty of Security and Strategic Studies (FSSS). In case of storing information, a database will be created where students' information will be stored according to the faculty. (One should remember the ACID property while designing the database.) Details information of a student would be like Student Name, Email, Facebook ID, Department, Roll, Batch number, Contact number, Passing Year, Current Job, etc. There should have option to attach resume if anyone is interested to upload.

(3) **Personal Profile for Each Alumni**. Like Facebook, each Alumni should have a personal profile having information like Name, Photo, Department, Batch, Roll, Personal Achievements, Current Position (Job or Business) are expected to be seen in a single page. Alumni or user of this system should have the right to edit their information in any time.

(4) **Job Portal**. A CV of each student or alumni will be there which they can update on a regular basis and by this way the other alumni(recruiters) will be able to know about the candidates. Job recruiters can post like blog here and candidates can response with comments.

(5) **Career Counselling Sessions by Expert Alumni**. Expert sessions by successful alumni will be taken on different topics in this platform. A feature of video conferencing could be incorporated like Facebook or Zoom and the any member can join it.

(6) **Mentoring by Expert Alumni**. The Expert Senior Alumni's get to mentor the other students due to arranging meetups/seminars in BUP. So, a chatting option is expected to be added. In this segment, users can communicate one-to-one or broadcast message in one to many manners.

b. **BUP Cultural Forum**. For the web design of BUP Cultural Forum following functional features are expected to be added:

(1) **Landing Page/Home Page**. This module will have Club logo at the top left corner, Slider to show images of different organized events, vision of the club and a short description of all the other segments. (For the purpose of competition, you can use few dummy images.)

- (2) **About Us.** A short description of the journey of the club, the history, etc. information will be displayed in this section. Admin of the webpage will add this information from his/her authorized portal.
- (3) **Recent Activities.** A section/ division will be for displaying recent activities of the club. For example, a workshop has been done 23/09/2020.
- (4) **Upcoming Events.** A notice board showing the list of the upcoming events.
- (5) **Alumni.** This will contain the information of the Alumni Panel members, their designation, contact number, email, Facebook ID, and LinkedIn ID. This segment will be managed by a database table where alumni information will be saved according to their executive tenure.
- (6) **Become a Member.** This will contain necessary fields to save information which will displays the criteria required to be a member. While recruiting, a database table will save the information from the field. Admin can have the information afterwards.\
- (7) **Photo Gallery.** A segment containing pictures of different fests, workshops, achievement, etc. should be available in the photo gallery.
- (8) **Current Executive Board.** This segment will contain information of the current executive board, their designation, contact number, email, Facebook ID, and LinkedIn ID. This segment will show the information from database table as well.
- (9) **Contact Us.** A message so that the audience can reach out to the club. A text field will be added here. People can simply come, write the message, and send the message to the authority.

For Reference: <https://www.bup.edu.bd/clubs/cultural-forum>

Image: <http://archive.bup.edu.bd/>