**SUPPORTING THREE APPLICATIONS**

**PRELIM EXAM FOR SOFTWARE ENGINEERING 2 LAB**

1. **SCENARIO:** You’re the only software engineer for the company and it owns all the software we created for the past few weeks. This includes the **attendance system, school newspaper system, and the fiverr clone system**. Customers were calling the company and the project manager listed their requests one by one in a word document. They have the following requests for the given system.
   1. **ATTENDANCE SYSTEM** 
      1. The school using the attendance system you created is requesting the company’s software engineer to create an **EXCUSE LETTER MODULE** in the system.
      2. A student should be able to submit an excuse letter to the admin of the system. There should be a way to check the excuse letter by program. For example, checking the excuse letter from BS in Computer Science, BS in Civil Engineering, etc.
      3. An admin should be able to approve/reject an excuse letter. The student should be able to check if the excuse letter has been approved.
   2. **SCHOOL NEWSPAPER SYSTEM**
      1. An admin should be able to **ADD CATEGORIES** to the articles. For example, News Reports, Editorials, Opinion, etc.
      2. If a student submits an article, he should be able to add a category to his article, and also update its category.
   3. **FIVERR CLONE**
      1. A client should be allowed to submit an offer to a freelancer’s proposal **ONLY ONCE**. If a client already submitted a proposal there should be an error prompt showing on page.
      2. Create a special role in the system, called the “fiverr\_administrator” role. He should be able to add **CATEGORIES AND SUBCATEGORIES** per category. A fiverr administrator role may assume the role of a customer so he can submit offers to proposals as well.
      3. Once a freelancer creates a proposal, he should be able to **CLASSIFY HIS PROPOSAL** by category and its subcategory. For example, for Technology category, we can have the following categories: Web Development (front-end, back-end, full-stack), Mobile App Development (mobile apps for iOS, Android) Game Developer, DevOps.
      4. Add category with subcategories to the navigation bar (navbar.php). It should show the categories and use a **DROPDOWN** to show the subcategories for each category. You can look for implementation here: <https://getbootstrap.com/docs/4.0/components/navbar/>