**Analysis of Elicited Requirements for Alumni Portal**

**Problems with Elicited Requirements:**

* **Non-functional requirement NFR001 (Product Requirements)** does not specify that the portal is web-based or software based and if it’s software based it does not specify the target operating systems for the portal. It is important to ensure that the portal is compatible with the operating systems that the majority of alumni use.
* **Non-functional requirement NFR002 (Usability Requirements)** is too vague. It is important to define specific usability metrics and goals, such as the percentage of users who can complete a task within a certain time frame or the number of clicks required to complete a task.
* **Non-functional requirement NFR004 (Performance Requirements)** specifies that the portal should be able to handle concurrent user logins from at least 5,000 users during peak times. However, this requirement may not be sufficient for a large university with a large alumni network. It is important to assess the peak user load and design the portal to handle a higher number of concurrent users if necessary.
* **Functional requirement FR0019 (Community discussion forums)** is a good addition to the requirements, but it is important to consider how these forums will be moderated and managed. It is also important to ensure that the forums are welcoming and inclusive for all alumni.

**Updated Requirements:**

* **Non-functional requirement NFR001 (Product Requirements)** should be updated to specify the Product type and target operating systems for the portal. For example, The university alumni portal shall be a web-based application that is compatible with Windows 10, macOS 12, and Ubuntu 22.04 LTS.
* **Non-functional requirement NFR002 (Usability Requirements)** should be updated to define specific usability metrics and goals. For example, the requirement could be updated to state that 90% of users should be able to complete a task within 3 minutes or that the average number of clicks required to complete a task should be no more than 5.
* **Non-functional requirement NFR004 (Performance Requirements)** should be updated to specify the desired peak user load. For example, the requirement could be updated to state that the portal should be able to handle concurrent user logins from at least 10,000 users during peak times.
* **Functional requirement FR0019 (Community discussion forums)** should be updated to include information on how the forums will be moderated and managed. For example, the requirement could state that the forums will be moderated by a team of volunteers and that the university will develop a set of guidelines for forum participation.

**Decision Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conditions | Student is currently enrolled at the university | Has student already registered for the alumni portal | Has student graduated from the university | Action |
|  | Yes | Yes | Yes | Redirect student to the alumni portal |
|  | Yes | Yes | No | Allow student to create an alumni portal account from the student enrollment portal |
|  | Yes | No | No | Display an error message and provide instructions on how to contact the alumni office |
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|  | No | No | No | Display an error message and provide instructions on how to contact the alumni office |