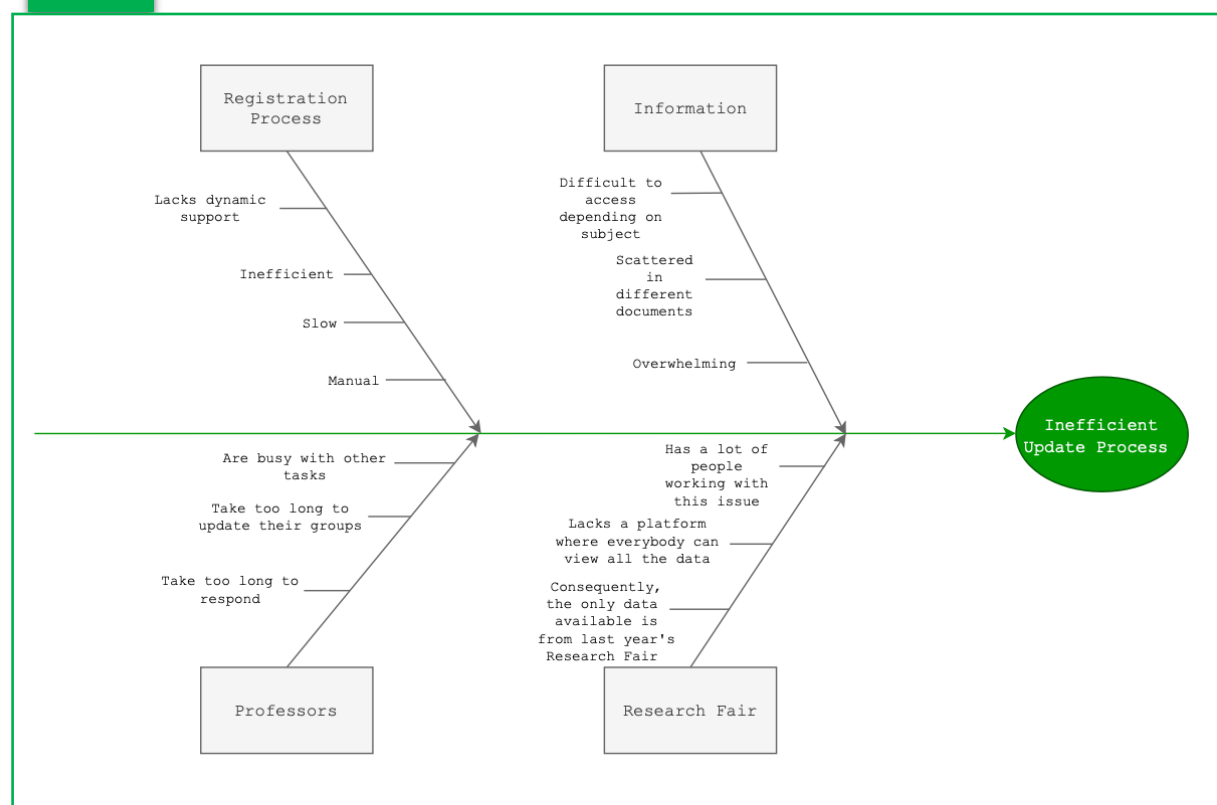


**Problem Background**

- A very important resource in our university is the annual multidisciplinary Undergraduate Research Fair that exposes multiple investigations, associations and special projects. This gives undergraduates another platform to communicate outside of the classroom while applying science.
- The way the fair makes this all possible is by assembling a team of multidisciplinary talent that handles everything. They currently have a webpage that allows users to explore and connect to the different areas that they have to offer. Unfortunately, this page has to be updated manually and requires a lot of effort from a lot of parties involved.

**Target**

- By Wednesday, April 27, 2022 Team 16 will develop a web-based application with a domain focused on the University of Puerto Rico, Mayagüez Campus Undergraduate Research Fair. The main goal of the platform is to automate the process of updating the required groups that will participate in the annual fair. The team is optimistic that this platform will eliminate a lot of manual work and create a more efficient environment that will contribute to the betterment of a key resource in our university.

**Causes****Countermeasures**

1. Let users register the data needed to update the UPRM Research Fair website.
2. Give the research fair the ability to merge the current database with data regarding previous fairs.
3. Provide a dashboard where the users can see all the contents of the main research database. It can be filtered by investigations, associations, projects, professors, year, discipline or additional tags that will be asked in the entry process.
4. Let users search for any investigation, association or special project.
5. Let users view their total contributions to the platform.
6. Provide users with the ability of editing any entry made.
7. Send reminders to each professor that has to register a group.

**Check/Evaluate**

- Short-term success can be measured by asking each user to rate the platform. A comment option can be added as well. This will give a better insight into how people feel when using the platform.
- Furthermore, we can look at how many users are making contributions to the platform. If the data shows that not many users are using the platform it will be considered a failure. Otherwise, we can say that the web-application is a success.
- Finally, with the features provided in the application, the root cause will be eliminated.

**Act/Standardize**

- Long-term success can be measured by glancing at the total users registered on the platform and keeping track of the short-term success measurements. The team can also create a poll for the Research Fair beforehand asking them how did they feel about the current update process and then poll them again after using the platform to see if the process was improved.
- After completing this task, the team will gained the knowledge necessary for developing more complex systems that impact bigger domains.
- Depending on the tool's short-term success, the domain can be standardize for more universities on our island and upon further long-term success the platform can expanded to universities worldwide that have a Research Fair similar to our own.