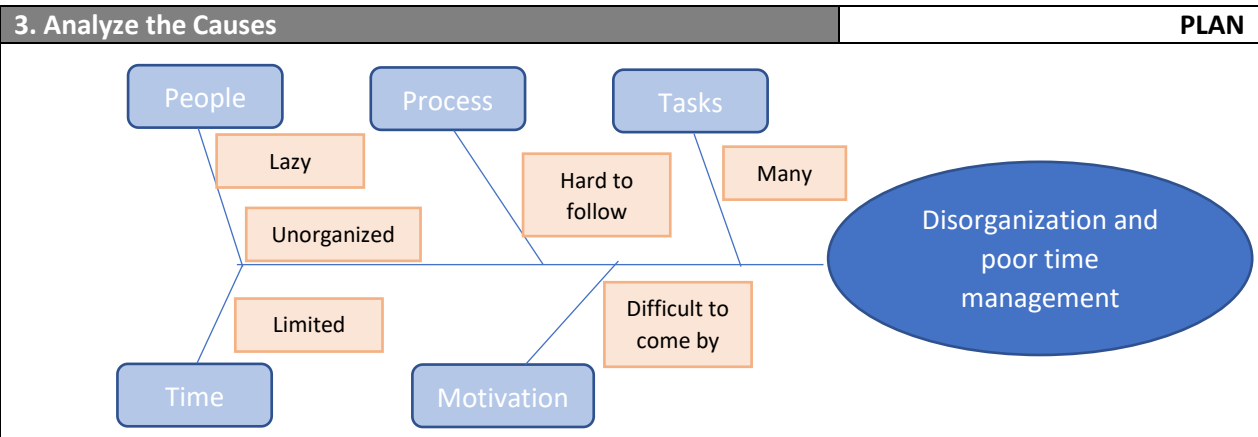# Problem Solving (A3) Report

Topic: Agenda Helper

Date: August 18, 2020
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1. Identify a Problem — PLAN

- Most students are failing classes and repeating them which essentially doubles (could be even more!) the time and money spent in the university mainly because of bad organization and time management.
- Aim to help students organize each semester efficiently at the click of a finger.
- The web-based app will help students keep organized with their classes each semester by setting weekly and monthly goals for each class; will also work allocating the student's time for studying, personal, and good sleep; and also help organize the student with daily tasks to complete according to the goals.

2. Set the Target — PLAN

- Create Proposal – First and Second Week
- Design Rest-API – Third and Fourth Week
- Design User Interface – Third and Fourth Week
- Start implementation of both parts – Fifth, Sixth, Seventh and Eighth Week
- Separate testing of each part – Ninth Week
- Integrate Rest-API with User Interface –Tenth and Eleventh Week
- Deploy on public cloud server – Twelve and Thirteenth Week
- Testing – Twelve, Thirteenth, and Fourteenth Week

Aim to work on delivering a proposal for the web application stating the tools and frameworks we will be using. Once we run a proposal draft through and get pre-approval, start working on a design for the Rest-API as well as the user interface. We will have two separate teams working on each part and will later work on implementing and testing each part. We will them work on integrating both parts and test said integration. After testing is done, we will deploy them on a cloud-based service to be available to use.

3. Analyze the Causes — PLAN

4. Propose & Implement Countermeasures — PLAN/DO

Problem	Cause	Countermeasure
Missing or late assignments	- Forgot assignment was due or given - No time to work on assignment due to other responsibilities - Too difficult to understand	Provide an easy way to visualize tasks given, their due dates and estimated time of work along with some recommendations as to how to start
Little to no study/work time	Overwhelmed by responsibilities	Set each day a study goal for each class.

5. Check/Evaluate — CHECK

ASK:
- Did the countermeasures work?
- Was the target achieved
- Can I verify that the Root Cause was eliminated (can I turn it off & on)
- If the Countermeasure was not effective, why didn't it work

SHOW:
The results; describe the reliability of the new process
TOOLS:
Line graph, pareto

6. Act and/or Standardize — ACT

ASK:
- How will we ensure the process continues to work (stays solved)?
- What have we learned?
- Where else can we apply this learning?

SHOW:
New or changed procedures, plans to apply learning in other areas
TOOLS:
Standard Operating Procedures

Template by Ignacio Tampe