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| **Problem Solving (A3) Report** | **Topic: Curriculum and Grade Tracker** | **Date:** 18/Aug./2020 |
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| **1. Identify a Problem** | **PLAN** |  | **4. Propose & Implement Countermeasures** | **PLAN/DO** |
| * Many students have issues keeping track of the progression through their curriculum, often being set back through an issue of misinformation rather than failure of coursework. * Maintaining an acceptable grade point average takes a lot of calculation on top of planning and hard work, the calculation often results in a tedious and time-consuming task. | |  | * Assembling a collection of curriculums organized my year may results in less confusion over academic progress. * The curriculums will be interactable. The user will be able to mark completed courses and the curriculum will automatically inform the user which courses are available as a result of this configuration. * A feature for transferring between curriculums should also be included, accounting for courses that are convalidated to allow better planning for the users. * The team should develop a web app that can calculate a grade point average based on a previously selected interactable curriculum from the mentioned collection. The app should also include the ability to calculate a preliminary GPA for a semester in progress. | |
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| **2. Set the Target** | **PLAN** |  | **5. Check/Evaluate** | **CHECK** |
| * Provide an organized collection of curriculums for multiple majors. * Provide an application that can calculate a user’s grade point average. | |  | * The team will be split into two parts, frontend developers and backend developers. * There will be three meetings a week on Monday, Wednesdays, and Fridays to report our work and discuss ideas. * These meetings will be recorded and summarized by one of the members to keep track of agreements and suggestions. * The team will routinely test the website for common bugs and edge cases. * A roadmap will be developed to cover a 6 month period and each team member’s individual responsibility along with reasonable due dates to ensure stable progress. This road map will also be revised weekly to cut back or extend due dates per the capacity of the team members. | |
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| **3. Analyze the Causes** | **PLAN** |  | **6. Act and/or Standardize** | **ACT** |
| * Curriculums often get updated and no longer apply to previously enrolled students, which understandably leads to confusion and leads students to follow the wrong curriculums. * Online support for academic progress is very limited and leads students to use more time than necessary verifying information that could be gathered in one place. * Grade point average calculation requires a lot of tedious basic math and constant revisions to reach a preferred result, leading to loss and/or burnout. | |  | * Expose the website to random participants in a test for reliability and effectiveness. Judge and rectify the quality of the project based on user feedback from multiple participants as well as an observed issues by the team. | |

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