1. **ID:** A1
2. **Solution Type:** Cloud based web application
3. **Main function:** It will help visualize a calendar with multiple access modifiers for every category of stakeholders, letting them request and approve calendar slots for courses. It will also act as a communication channel between Program Administrators and instructors for every course. Every course will have an option to “request a resource” or “Send a message” between the instructor of that course and the Program Administrator, and will have reminders and notifications to ensure that action items are implemented.
4. **Key Technology:** It will be a software solution with an algorithm for scheduling courses and an Angular based UI interface that makes the experience more visual (and hence less complex).
5. **Key Traits** A visual interface, allowing the users to reserve a slot and let others know about it in real-time.
6. **Key Data** It will create a visual representation of timings requested by instructors or/ and approved by Program Administrators in real-time, the source of which will be the available time slots for both stakeholders and the target for which will be academic softwares like Stellic and SIO.
7. **Platform:** Google Cloud.
8. **Visual** (optional):
9. **ID:** A2
10. **Solution Type:** A cloud hosted software
11. **Main function:** It will take the courses, free timings, instructors details and preferences as input and will use ML on historic “labelled” data to identify appropriate slots for every course, and could still be modifiable using drag-and-drop by the Program Administrators if any changes need to be made.
12. **Key Technology:** Machine Learning algorithm that identifies patterns and uses it to make predictions.
13. **Key Traits** (optional, depends on your idea): The trait is the final developed course plan that is ready to be modified if need be and ready to be used.
14. **Key Data** (optional, depends on your idea): The final course plan will be the information it will create from the raw data of available timings and course details, along with preferences (like Prof XYZ can only teach on Fridays).
15. **Platform:** Cloud based web application employing Machine Learning
16. **Visual** (optional):
17. **ID:** A3
18. **Solution Type:** A cloud based software solution
19. **Main function:** It will use historic data for each course to identify if any actions need to be taken by either the course instructor or the Program Administrator. (For instance, if an HBR article was required in the last 4 semesters in the first week for an Economics class, chances are that it will be required again in the next sem at around the same time).
20. **Key Technology:** Machine Learning algorithm that identifies patterns and uses it to make predictions.
21. **Key Traits** (optional, depends on your idea): It will take previous course related data as input to train a model that identifies the next action required by either of the two stakeholders and sends nudges to both stakeholders if it feels an action needs to be taken, thus accelerating the process of information exchange and resource requests.
22. **Key Data** (optional, depends on your idea): The key data will be the identified actions to be taken next, which will be sent as nudges/reminders.
23. **Platform:** which technology or system will it work upon? Cloud based web application employing Machine Learning
24. **Visual** (optional):