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| **Project Title:** Class Scheduler | |
| **Start Date:** 02/23/2021 | **End Date:** 05/03/2021 |
| **Team Members:** Lake Gatton, Adam Flowerday, Ryan Moody, Thom Martin, Elizabeth Nastoff, Zunair Ahmed | |
| **Project Sponsor:** UMKC | |
| **Customer:** Gina of SCE | |
| **Users:** Gina and possibly professors | |
| **Stakeholders and Expectations:**  Team: Have ready access to individuals with the authority to make decisions regarding software requirements. Be given specific and detailed feedback on product increments.  Director Gina: Be able to compute the best schedule(s) based on each professor’s criteria.  Professors: Be able to update their availability and preferences. | |
| **Purpose (Problem or opportunity addressed by the project)**:  Users will be able to input schedule preferences and restrictions by their respective dates and times. Constraints will be prioritized based on the level of necessity and from this information a schedule will be created automatically, providing at least one (1) schedule which best implements the staff in their respective classes. Information can be saved, edited and deleted by users with the authorization to do so. Sign-in credentials will identify the user and permit changes to their own account or others based on that user’s role. This will help to minimize the amount of time needed to create staffing schedules and ensure more accountability with needed schedule changes. | |
| **Goals and Objectives**: The overall goal is to give Gina and other UMKC staff a better way of keeping track of the upcoming semester school schedules. For ease of access this will be in the form of a website, which is expected to:   * Provide logins for different users * Keep past semesters on record * Display notes of each teacher and their preferences * Have a simple and easy to use interface * Automatically create best schedule(s) to choose from | |
| **Schedule Information (Major milestones and deliverables)**:  02/28/2021 - Requirements Document Baselined  03/01/2021 - Iteration #1 Complete  03/02/2021 - Project Charter Complete  03/07/2021 - Project Plan Complete  03/12/2021 - Technical Prototype Complete  03/12/2021 - Customer Approved UI Prototype Complete  03/15/2021 - Risk Management Report  03/15/2021 - Iteration #2 Complete  03/19/2021 - Mid Semester Presentation 04/04/2021 - Architecture Document Complete  04/06/2021 - Iteration #3 Complete  04/19/2021 - Iteration #4 Complete  04/30/2021 - Test Plan 05/03/2021 - Iteration #5 Complete 05/03/2021 - Product Released  05/07/2021 - Project Results | |
| **Financial Information (Cost estimate and budget information)**:  1 project manager at 4 hours per week for 10 weeks 40 hours \* $25/hr = $1000  5 developers at 4 hours per week for 10 weeks 200 hours \* $20/hr = $4000  240 hours total, $5000 total, avg, $20.83 per hour | |
| **Project Priorities and degrees of freedom:** Dates are firmly set for the end of the semester. Budget is non-existent but is being implemented for practice in terms of hours put in by each team member. Schedule is then flexible and at the discretion of the team based on approaching deadlines. Roles are changeable based on workloads of individual team members. Roles are expected to shift throughout the project as needs arise. | |
| **Approach:** Iterative and incremental is planned. Feedback will be used from one iteration to the next. The first iteration will focus on basic functionality of the app. Subsequent iterations will build upon that and incorporate more features as time allows. | |
| **Constraints**: In order to protect the privacy of professors, the released product will contain only mock information. The final release date is rigid and immovable. A completed product is not required, but a robust working prototype is. | |
| **Assumptions**: The team will be supplied with mock professor information for populating the DB. Gina wants to be able to use the product from anywhere she has the internet. This leads to implementing a 3-tiered product for accessing the DB from a web browser. Bingham has approved using the DB product produced in the 470 class in this project: attribution notes must be kept and a robust product is expected. If there are changes to this approval, any required decisions will be made by the entire group. | |
| **Success Criteria**: The project will be considered a success if (1) the team delivers an operational prototype at the end of the semester with the features mentioned in the goal section above, and (2) 80% or more of the team members would be willing to work together on another software project in the future. | |
| **Scope**: At the minimum, the software will (1) allow users to keep track of past semester schedules, and (2) see a list of teachers and classes available for the next semester. Time permitting, the scope could be extended to include features available to users would be different logins for different views, and for automatically making the schedule. | |
| **Risks and obstacles to success**: A risk the team faces is a lack of experience in developing web apps. This lack of experience generates a lot of unknowns. We have only a best guess for the level of work required for the features we have committed to. We do not yet have a clear picture of how the code will be implemented. | |
| **Signatures**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Lake Gatton\_\_\_\_\_ Project Manager**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Thom Martin\_\_\_\_ Backend Dev/Tester**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Zunair Ahmed\_\_ Fullstack Dev/Tester**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Ryan Moody\_\_\_\_\_\_\_ Fullstack Dev**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Adam Flowerday\_\_\_ Frontend Dev**  **\_\_\_\_\_\_\_\_\_\_\_\_\_Elizabeth Nastoff\_\_\_\_\_\_ UI Designer** | |