# OPTIMIZING WORKFLOW AND EFFICIENCY FOR CERES: STUDENT PROGRAMS THROUGH THE IMPLEMENTATION OF MONDAY.COM

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# IMPROVING STUDENT PROGRAMS BOOKINGS PROCESS EFFICIENCY

Due to the increasing integration of technology in the workplace, demand for the automation of employee tasks has grown due to its time-saving benefits.<sup>13</sup> However, technological changes can cause major organizational changes within the workplace, negatively affecting employees within an organization.<sup>1</sup> As a result, extensive planning with those affected is necessary to ensure continued use and acceptance by staff.9 CERES Student Programs, a non-profit environmental education center in Melbourne, Australia, currently devotes a significant portion of employee time to processing bookings. This time could be better spent elsewhere,

especially since the employees that process bookings are experienced environ- mental educators. Consequently, if the logistical demands of their position were diminished, they would be able to spend more time doing what they love - teaching others how to care for and appreciate our Earth.



A beautiful day on-site at CERES' East-Brunswick campus.

This project integrated Monday.com, a customer relationship management (CRM) tool, into the Student Programs workspace to minimize time spent on the bookings process and maximize time spent towards organizational goals, such as teaching students and expanding lesson plans. Frequent consultations with key stakeholders ensured that the resulting CRM implementation increased workflow efficiency while still performing all

functions of the previous system and that it would be used by employees without hesitation or skepticism. In addition, Student Programs could take advantage of many advanced reporting function-alities. Lastly, creating an automated scheduling system allowed us to run simulations and provide recommendations for how to best use the teaching spaces available to maximize bookings. Ultimately, this project transitioned Student Programs in time for Q1 2023 bookings to be processed in Monday.com, allowing staff to take advantage of the improved workflow and automations.

## AN OVERVIEW OF CERES AND ITS PREVIOUS WORKSPACE

Student Programs, a division of CERES and the primary focus of this project, offers programs to students in support of their mission "for people to fall in love with the Earth again." Previously, the Student Programs Office had seven apps that help them manage their bookings.<sup>2</sup> These apps were disjointed, making data acquisition difficult and requiring staff to manually transfer data between apps, which can be prone to error. Recognizing the advantages an integrated CRM would have on their workflow by centralizing data, automating

tasks, and improving reporting, Student Programs tasked a previous research team from Worcester Polytechnic Institute (WPI) in 2021 with analyzing various CRMs and detailing which CRM would best fulfill their needs.<sup>2</sup> This group, considering multiple options, ultimately chose Monday.com due to its code-free design, capacity for automation. and advanced reporting features. However, it is important to note, simply implementing a CRM or updating to a new version is not enough to see lasting benefits.<sup>6</sup> Often, for the performance benefits to be seen within an organization, a significant amount of work and time must be put into understanding customer and employee needs, which we considered throughout every step of implementation.<sup>7</sup> As an organization grows, change is inevitable and can raise concern for discomfort amongst employees.<sup>7</sup> However, this can be avoided through proper communication and well designed trainings.<sup>3</sup>

# RESEARCH ACTIVITIES AND FINDINGS

This project aimed to implement a CRM for Student Programs and improve workflow efficiency and the ease with which data can be accessed for analysis. To achieve this goal, we fulfilled the following objectives: Understand the needs a CRM must fulfill

Develop and implement a workspace to simplify the current bookings process

Implement advanced reporting features

Work closely with staff to refine the workspace and increase staff compatibility

Transition booking process in time for Q1 2023 bookings

## UNDERSTANDING CERES STUDENT PROGRAMS STRUCTURE AND NEEDS

To establish a thorough understanding of CERES Student Program' bookings and reporting process, we interviewed key stakeholders in the bookings team and reviewed the three deliverables created by Baranowski et al.<sup>2</sup> As a result, we were able to develop the following criteria of an effective system must meet:

- Reduce the time required to process a bookings
- Maintain a similar appearance to past systems
- Exist entirely in Monday.com

These criteria were chosen as a result of staff frustration regarding time-consuming and repetitive processes and designed to decrease the amount of organizational change while still saving time. The The importance of a decline in time required is best explained by Kate Green as she noted, for staff at CERES, `time at their desks is stuff they have to do to do what they want to do." While our goal was to build a system that adequately fulfills the above needs, our top priority was to leave a system in place that the staff were comfortable using.

## DEVELOPING A WORKSPACE TO MANAGE STUDENT PROGRAMS BOOKINGS

After analyzing the information we obtained from the interviews and reviewing work from Baranowski et al.,<sup>2</sup> we constructed a workspace in Monday.com. In addition to the workspace, a supplemental program was developed to support Monday.com on more advanced automations. Our goal in designing this workspace was to create an updated system that reduced the time staff spent on logistical tasks that they were comfortable with integrating into their daily workflow.

#### **Automating Bookings in Monday.com**

The original bookings process included repetitive shifting between the various apps used, cluttering the workspace and contributing to inefficiency. As a result, one of our main priorities when building the Monday.com workspace was the integration of these apps so that data could transfer automatically. Successful completion of these resulted in each app integrated into

in one app rather than seven, reducing the whereas the new system required 1.5 These simulations revealed which activities likelihood of lost information when minutes to process a booking. In addition, were limiting capacity the most and, as a transferring between steps and improving Student Program's bookings process was result, provide the most benefit by finding the overall efficiency of the bookings made more efficient, reducing the time alternate locations. Ultimately, each process. In addition to integrating Student needed to process a booking by 96%, while program's capacity was improved by 29% Programs' accounts, internal automations decreasing the likelihood of error when on average. were created to further simplify the bookings transferring data. process by removing the most timeconsuming steps.

#### Impacts of an Automated Bookings Process

new and the old system, which revealed the simulations to Student Programs capacity for after transitioning to Monday.com, these

Monday.com, allowing the staff to only work previous system required 45 minutes, each program based on location usage.

#### **Automating the Generation of Timetables**

Monday.com is designed as a no-code CRM tool, making it an excellent option for Interviews with staff before and after organizations like CERES who do not have a implementation enabled qualitative analysis large IT department. However, due to its that revealed the staff was confident in the user-friendly simplicity, it cannot handle new system and excited for the amount of complex automations, which did not impact time saved moving forward. Emily Bakyew, a any of Student Programs needs, except member of the booking team since the generating timetables. This task is the most project began with Baranowski et al., complex bookings task, taking up to 5 hours mentioned that our new system "created to complete and is required each day, something that will improve the customer something we concluded must be automated. experience by adding more touch points and The resulting algorithm was designed to giving further information as needed." In comprehend and optimize the complex addition, she described that with the time environment, considering program type, saved, the bookings team would be able to activity type, and competing location proactively advertise and reach out to requirements. When implemented, the customers, analyze data, and improve algorithm significantly decreased the time programs. For a quantitative analysis of the required for both standard and busy days, as impact transitioning to Monday.com had, we seen in Figure 1. Upon completion, a version was a process that occurred infrequently timed the staff processing a booking on the of this algorithm was modified to perform

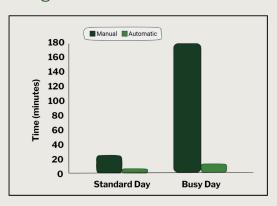


Figure 1: A graph depicting the improvement automated generation of timetables can provide on standard versus busy scheduling days.

## **TOOLS FOR STUDENT PROGRAMS**

One of the key reasons Monday.com was chosen is its advanced reporting capabilities.<sup>2</sup> After transitioning the bookings process to Monday.com, we dev-eloped dashboards to automatically collect, analyze, and clearly report on data in realtime. Previously, creating similar reports due to its time-consuming nature. However

performance metrics are updated in realtime and can be accessed instantaneously, eliminating the time required to compile reporting data. One of the staff members, when discussing the improved reporting process, explained that the updated system meant that they could simply look at the dashboard and don't have to do anything" when gathering data. The resulting time saved could be spent elsewhere. As a staff member stated, with reports generated in real-time, the Student Programs office has transitioned away from being reactionary and instead enabled them to proactively adjust based on performance metrics.

#### **EXTENSIVE USER TESTING AND TRAINING**

During and upon completion of the Monday.com workflow, our team conducted extensive user testing over multiple weeks to ensure that the automations and procedures were performed to their desired specifications and that the new system could adequately improve and replace the old workflow. User testing allowed us to improve the system so that we could more precisely tailor the system to Student Programs' needs. This testing revealed that the workflow and implementation was a huge improvement from their previous system, and that they were excited about

the transition. As a result of user testing, the staff were already quite familiar with the system, which was supplemented by comprehensive trainings to fill any gaps in knowledge, address any questions or concerns, and enable a smooth transition to the new system. Initially, there had been some hesitancy and skepticism from the staff regarding transitioning, but after testing and training, they were confident and excited to use the new system.

## TRANSITIONING STUDENT PROGRAMS TO MONDAY.COM

Upon completing the development of the Monday.com workspace and extensive user testing and staff training, Student Program's transitioned to the workspace, thereby directing all new bookings to Monday.com. We accomplished this in time for planning week, one of the busiest times of the year for bookings, meaning that staff could immediately start benefiting from the 96% reduction in time required for a standard booking. In addition, all legacy data was transitioned from Podio to Monday.com to enable advanced reporting on previous data and further reduce the number of applications required, which was described as "really helpful" and "amazing" by the management team. Considering the improved workflow and the number of

bookings received per year, we estimate the time required to perform administrative tasks will decrease from 531 to 28 hours. If used solely for excursions, this time would enable the bookings team to educate students for an additional 101 days, reaching 7,575 students while still completing their responsibilities.

## CONCLUSION: A SUCCESSFUL TRANSITION FOR STUDENT PROGRAMS BOOKINGS

Our work with Student Programs has transitioned their excursions and incursions bookings process from a largely manual process into an automated system using Monday.com. This transition has simplified the bookings process, making it easier to understand and bringing the standard time required for a booking from 45 minutes to 1.5 minutes, a reduction of approximately 96%. In addition to improving the workflow and system used, we left a system in place the staff were excited to use so that they could spend more time outdoors with students.

"It has definitely had an impact on our workflow and speeding up the process.

We've been lucky to have that especially being a non-profit and having limited time and resources, any time that we can save actually makes a big difference."

-Alex Sullivan, Bookings & Administration Coordinator