

## INTRO/ABSTRACT

The CCSE department tasked us with creating an application to streamline the reservation of the rooms and equipment maintained by the college. To achieve this, we developed a front-end application created with PHP that allows users to request reservations for rooms or equipment. We created and maintained a back-end database configured with MySQL for easy integration with the front end. Through the project we created new functions in the application with the user in mind.

## METHODS

We utilized an agile methodology to delegate tasking for the code development for the front-end application, as well as the configuration of the back-end database.

Task	WBS	% Complete	Task Name	Duration	Start	Finish	Resource Names
67	4	86%	-Final Deliverables (Milestone 3)	28 days	Mon 10/23/23	Sun 11/19/23	
68	4.1	100%	-Week 6	7 days	Mon 10/23/23	Sun 10/29/23	
69	4.1.1	100%	Weekly Meeting	1 day	Mon 10/23/23	Mon 10/23/23	
70	4.1.2	100%	Draft abstract for C day and set up registration	2 days	Tue 10/24/23	Wed 10/25/23	Nick Kelley
71	4.1.3	100%	Begin researching email functionality	6 days	Tue 10/24/23	Sun 10/29/23	Keith Mutisya
72	4.1.4	100%	Update admin portal to show analytics and allow CRUD capabilities	6 days	Tue 10/24/23	Sun 10/29/23	Aaron Hyatt
73	4.1.5	100%	Normalize tables	6 days	Tue 10/24/23	Sun 10/29/23	Tykira Carreker
74	4.1.6	100%	Weekly Report 6	6 days	Tue 10/24/23	Sun 10/29/23	
75	4.2	100%	-Week 7	7 days	Mon 10/30/23	Sun 11/5/23	
76	4.2.1	100%	Weekly Meeting	1 day	Mon 10/30/23	Mon 10/30/23	
77	4.2.2	100%	Create relationships between new normalized tables	2 days	Tue 10/31/23	Wed 11/1/23	Tykira Carreker
78	4.2.3	100%	Insert new test data and implement a scheduled query to delete reservations	2 days	Thu 11/2/23	Fri 11/3/23	Tykira Carreker
79	4.2.4	100%	Continue email research	2 days	Tue 10/31/23	Wed 11/1/23	Keith Mutisya
80	4.2.5	100%	Set up the calendar page and bookings timelots for room reservations	6 days	Tue 10/31/23	Sun 11/5/23	Nick Kelley
81	4.2.6	100%	Added form validation to the equipment page	2 days	Tue 10/31/23	Wed 11/1/23	Aaron Hyatt
82	4.2.7	100%	Create filters for the calendar that pull data from the database	4 days	Thu 11/2/23	Sun 11/5/23	Aaron Hyatt
83	4.2.8	100%	Weekly Report 7	6 days	Tue 10/31/23	Sun 11/5/23	
84	4.3	59%	-Final Project Package Weeks	18 days	Mon 11/6/23	Sun 11/19/23	
85	4.3.1	100%	Update admin portal to reflect new normalized tables	1 day	Mon 11/6/23	Mon 11/6/23	Aaron Hyatt
86	4.3.2	100%	Researched and implemented email function for the equipment page	3 days	Tue 11/7/23	Thu 11/9/23	Aaron Hyatt
87	4.3.3	100%	Updated the calendar function to return the user input to the database	3 days	Fri 11/10/23	Sun 11/12/23	Aaron Hyatt
88	4.3.4	85%	Implement email function to send a user their reservation details	3 days	Mon 11/13/23	Wed 11/15/23	Aaron Hyatt
89	4.3.5	100%	Update reservation code to get timelots into the database	3 days	Fri 11/10/23	Sun 11/12/23	Nick Kelley
90	4.3.6	100%	Attended writing center for research paper edits and edited showcase site	1 day	Mon 11/13/23	Mon 11/13/23	Tykira Carreker
91	4.3.7	100%	Create and finalize sponsor & department powerpoint presentations	3 days	Tue 11/14/23	Thu 11/16/23	Aaron Hyatt,Keith Mutisya,Nick
92	4.3.8	0%	Department presentation	1 day	Fri 11/17/23	Fri 11/17/23	Aaron Hyatt,Keith Mutisya,Nick
93	4.3.9	0%	Finalize research paper	3 days	Fri 11/17/23	Sun 11/19/23	Aaron Hyatt,Keith Mutisya,Nick
94	4.3.10	0%	Finalize WBS/Gantt Chart	1 day	Fri 11/17/23	Fri 11/17/23	Aaron Hyatt
95	4.3.11	0%	Finalize project plan	3 days	Fri 11/17/23	Sun 11/19/23	Aaron Hyatt,Keith Mutisya,Nick
96	4.3.12	0%	Finalize project site	3 days	Fri 11/17/23	Sun 11/19/23	Aaron Hyatt,Keith Mutisya,Nick

Figure 1: MS Project file showcases the agile methodology used when creating and delegating tasking for the duration of the project.

## RESULTS

The final product represents a series of web pages that allow users to request equipment and/or rooms and inputs the user requests to the database. The application also emails the designated individuals in charge of the resources.

Resources:

- <http://colinpurrington.com/tips/poster-design>
- <http://guides.nyu.edu/c.php?g=276826&p=1846155>
- <http://www.makesigns.com/tutorials/scientific-poster-parts.aspx>

# We created a web-based application for users to reserve rooms and equipment within the CCSE department.



Welcome to the KSU Reservation System!

**Reserve a Room**

Locations  
Atrium Building  
Norton Hall

Meeting rooms are collaborative spaces provided to give faculty of the College of Computing and Software Engineering (CCSE) a place to meet and discuss work endeavors.

Reserve Now
More details

**Reserve Equipment**

College Inventory  
Laptops Keyboards Mouse Desktops  
Monitors Other

Reserving a piece of equipment allows faculty and students of the College of Computing and Software Engineering (CCSE) alike to pick and choose the equipment from the college inventory.

Reserve Now
More details