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CSE 389 Report

Our project was a course information site that allowed professors to post information and students to view it before choosing their courses for the future.

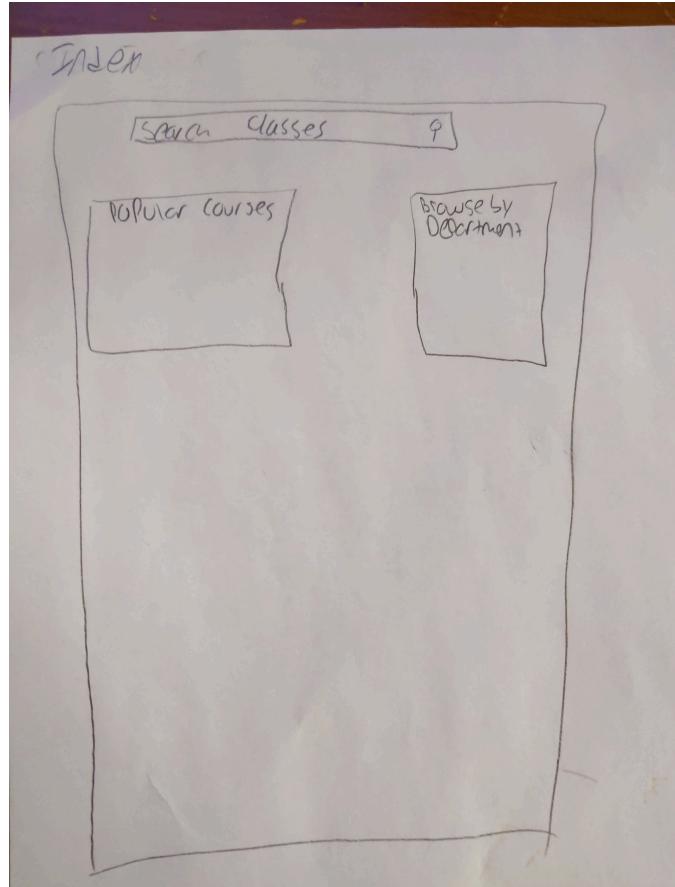
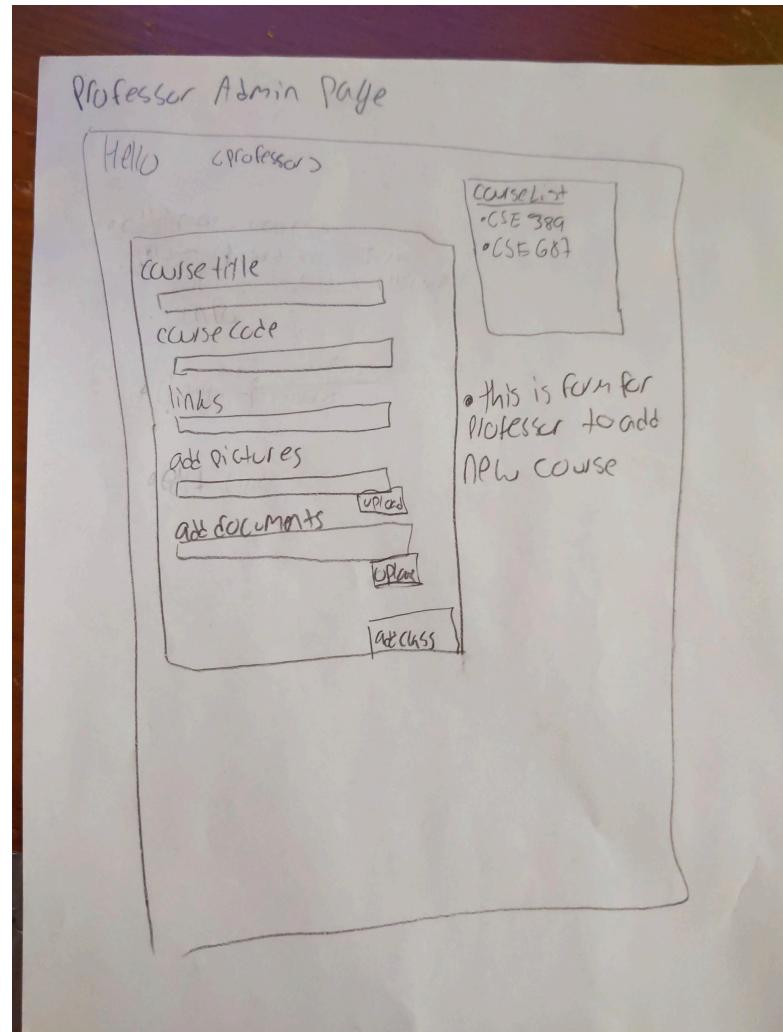
Idea Conception

When the group first got together, we weren't entirely sure what we wanted to do. But then Chris had his advising meeting for next semester with Professor Older and she had suggested numerous electives to him that he could take and sounded interesting. However, even with the course description, it wasn't enough for him to see if he wanted to take it. When he mentioned this, Gianna and Nik realized as well that this was a common problem. Sometimes students would sometimes email professors for syllabi for classes or to ask for information about it in general. This is not only a nuisance for professors who might get multiple emails about the same course from different students but for students as well who are wanting to enroll for classes but are waiting for professors to respond about their courses. We believed this would be something that would be beneficial for faculty and students alike. We started to think about how we wanted the site to look and how to separate faculty and students because we knew they had separate functions. With that, we moved into planning.



Planning

We started with thinking about how we wanted the pages to look and looked at the faculty side first. They had the most functionality since they could add courses which include course title, course code, links if they had their own course website or github, pictures, and documents. The last two were in case they wanted to include previous projects created by students for examples of how they looked for future students. We thought this was a good feature because often final projects can have very broad implications and different professors have different ideas about what it should be. This would give students the chance to see what the end of the course could bring and the fundamental topics they would learn throughout the course. We thought a form would be easiest to input the information for the professor. Once the class is created, they would be able to go in and edit the information so that



they can update syllabi, links, or pictures. On the other side we planned to have a list of the generated courses they have created so they can easily find them later to update or delete them.

We wanted to make sure this system was something efficient and easy since a lot of the professors can sometimes have difficulty with technology or complicated sites.

Next we moved onto the planning of the student page. We first decided that we wanted students to be able to search for classes to make it easier to find any course they were looking for versus having to scroll through all the courses listed. We wanted to make it as efficient as possible. Below that we thought we would include popular courses that other students looked at and were interested in. This would be for students who are just looking for a certain

type of class like a social science/humanity or science course. They would be able to look at the most popular courses and then look at the information associated with it and find courses that others like that they could take as well. Finally for the student page we decided to allow students to browse courses by department. Especially in engineering we have very specific courses for certain majors and we thought it would be nice to have the choice to browse by department/major so students could find their courses easily. This was our initial planning and then as we started working, we decided on a few additional features that needed to be added to ensure that the site was working at the best capacity it could.

Features/Architecture

When we began the project, we started thinking further about what we would need on both the faculty and students. We wanted an initial page that would allow the person to choose who they were where it was either a student or faculty member. This way, we didn't have to make a login and then have the system be able to differentiate so instead we just pushed the students right to their page to view courses and then faculty took a different path from there. You can see the chooser above and what that looks like. We wanted to make sure it was simple and straightforward.

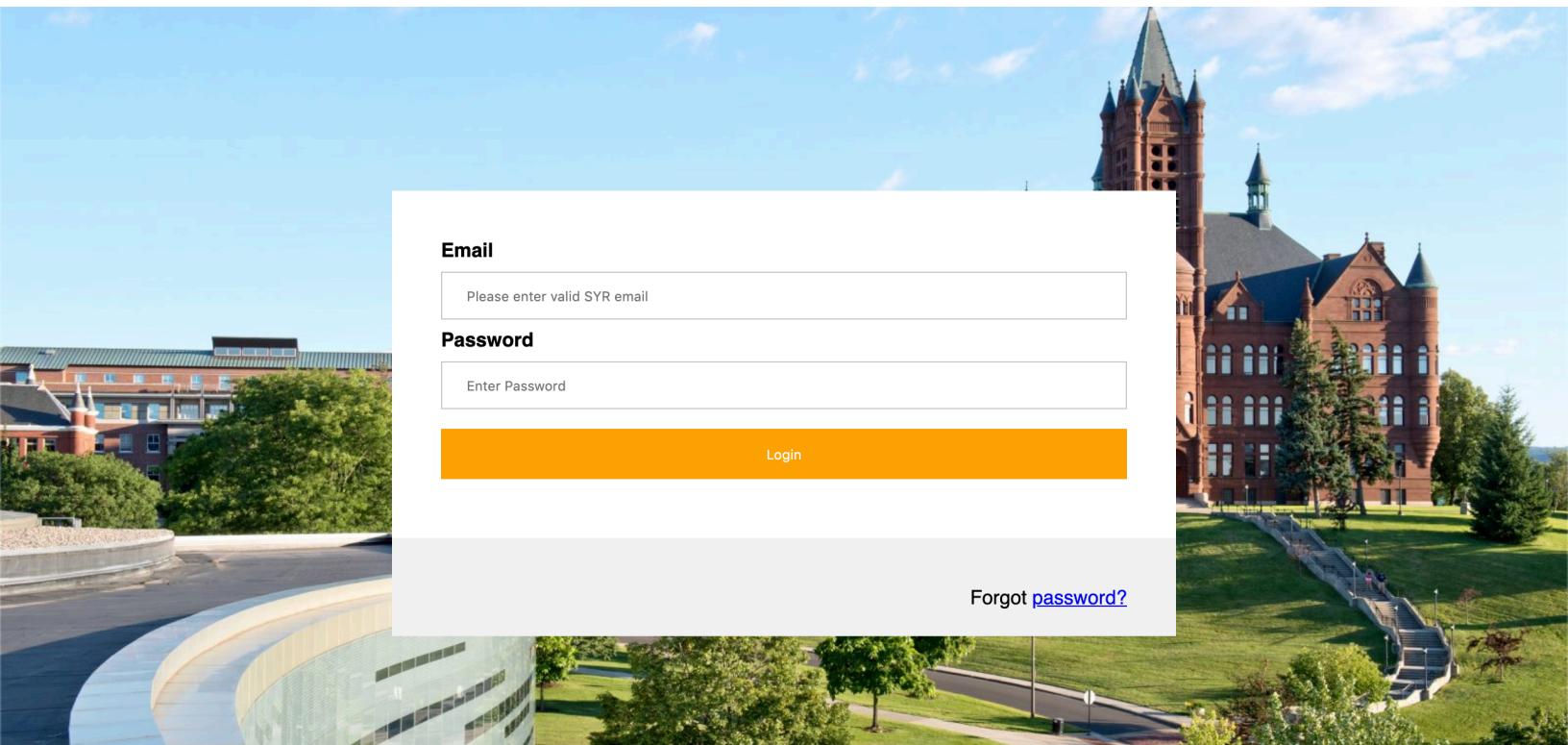
Welcome! Please choose whether you are a faculty member or student!

Faculty

Student

Next, we thought about faculty and since they needed to be able to go in and see their specific information and edit it, so we knew that there was going to have to be some login for them. Below, you can see the login page that we created for the faculty. The plan is to have them use

their SUID and a password they create to let them access all of their course information. We have a link that would allow them to reset their password if it was forgotten for any reason. This is something very common that we could see especially between Spring and fall semesters and the summer where faculty isn't doing a lot of work involving students.



Welcome Professor Yu!

Add Course

Course Title

Course Code:

Course Links:

Course Pictures: No file chosen

Course Documents: No file chosen

Course List

- CSE 389
- CIS 400

Once the professor is logged in you can see the details that I mentioned in the planning phase that include a form to add a new course and a course list that the faculty member already has created and is currently maintaining. Any courses added would be added to the course list and vice versa if it's being deleted. You can see that screenshot above!

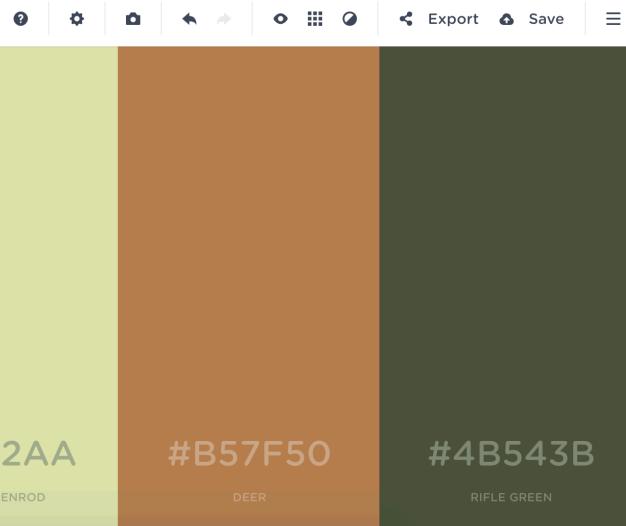
The screenshot shows a web-based application for managing courses. At the top, a grey header bar contains the text "Welcome!". Below this is a search bar with the placeholder "Search Courses" and a magnifying glass icon. The main content area is divided into two sections. On the left, a box titled "Popular Courses!" lists several courses: CSE 389, CIS 400, CIS 352, CIS 252, CIS 300, and ECS 100. On the right, a box titled "Browse Courses by Department" lists departments: Computer Science, Electrical Engineering, Computer Engineering, Aerospace Engineering, Mechanical Engineering, and Bioengineering Engineering.

Next is the student page. Here you can see the features that were mentioned above that include a search bar that will open the class that you search, a popular courses section that recommends classes to students who are searching, and a browse by department section. We felt all these options gave students the chance to browse easily all the course selections that Syracuse University has to offer.

Execution

When it came to the execution of this project, we split the tasks up into the parts that each of us really knew best to optimize the amount of work that we were doing. A breakdown of each of those tasks is on the last page of the report so that it is together and easy to read. But if we go through a few of the extra steps and technologies that we used, you will be able to see the effort that we put into this project to make sure that it turned out simple, nice, and easy to use for every user that it came into contact with.

Press the spacebar to generate color schemes!



#8ED081

PISTACHIO

#B4D2BA

ASH GREY

#DCE2AA

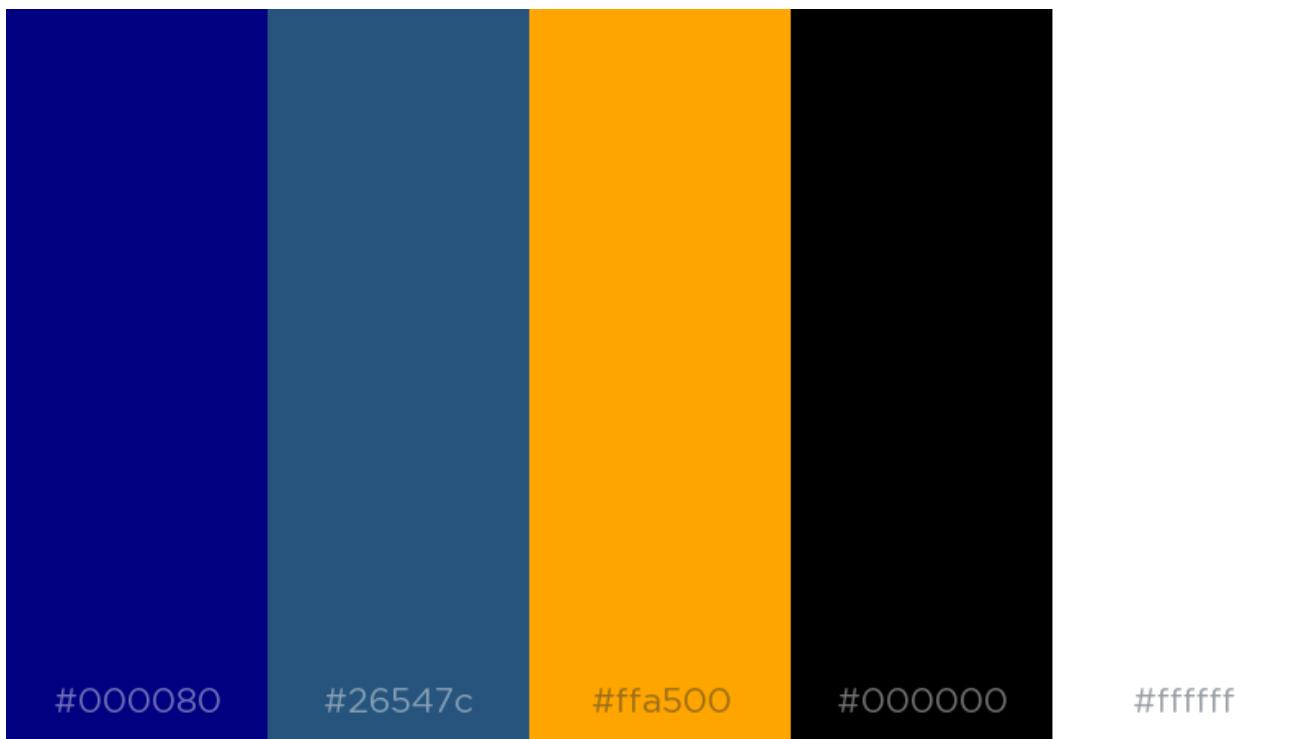
PALE GOLDENROD

#B57F50

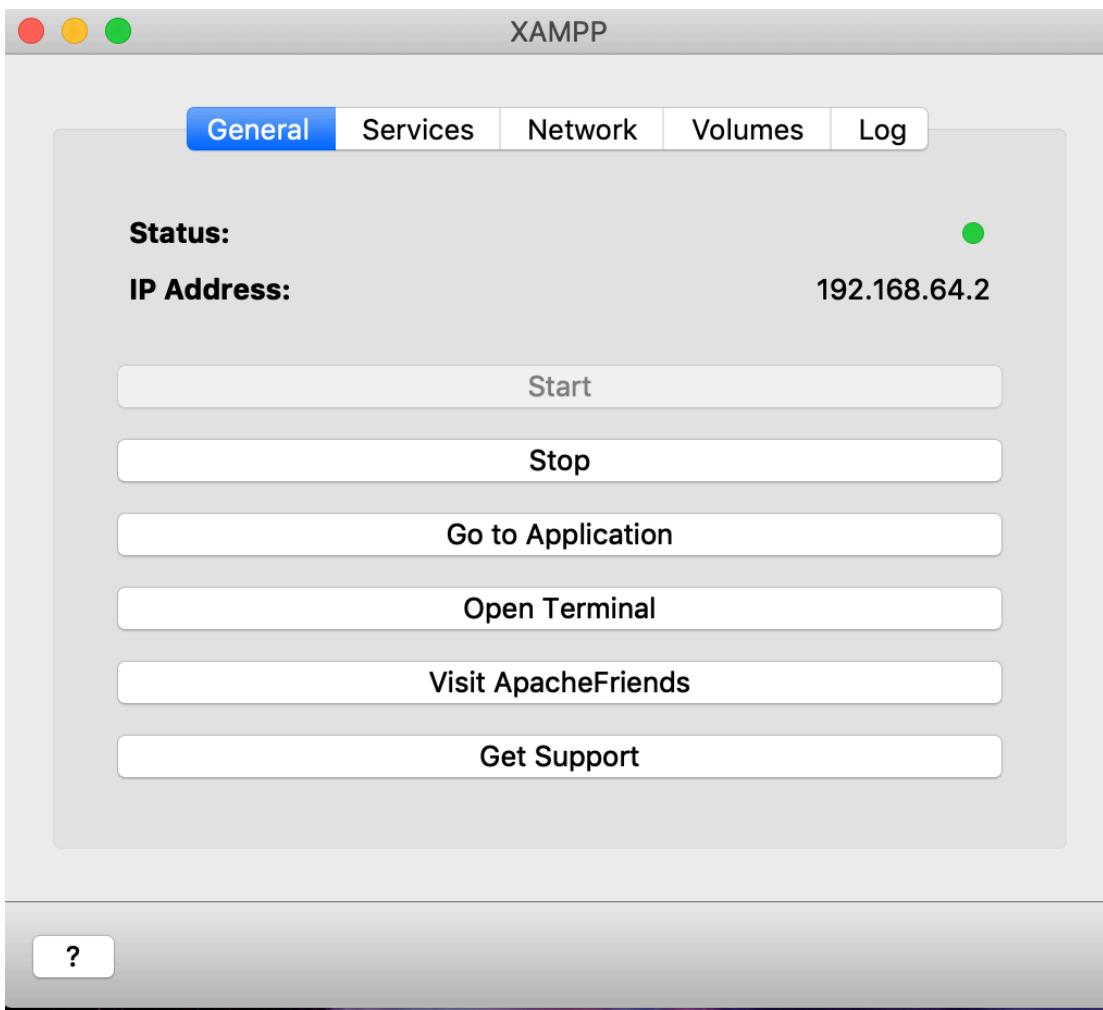
DEER

#4B543B

RIFLE GREEN

**COOLORS**coolors.co/000080-26547c-ffa500-000000-ffffff

With the design, Gianna decided to use a web app called coolers, pictured above. This allowed her to play around with various colors to see which would look the best and most appealing while all being together on the page. She ultimately decided that the color scheme directly above would be best! This is for a few reasons. One, it is Syracuse colors and since this is for Syracuse student and faculty, it made a lot of sense. But two, the colors all worked well together and only had one bright color that really stood out. She wanted to ensure that nothing clashed and was pulling the eye away from the actual content.



Since we chose the third option to do the website, we used XAMPP to help in hosting our site

easily and effectively. We found this tool super useful and would definitely recommend using it in future projects.

Project for CSE389

Manage topics

Branch: master New pull request

Create new file Upload files Find file Clone or download

Latest commit d1f0ee4 3 hours ago

File	Commit Message	Time
ansseem Add files via upload	Add files via upload	15 days ago
000080-26547c-ffa500-000000-ffffff.png	Initial commit	last month
README.md	Add files via upload	15 days ago
campus.jpg	Add files via upload	3 hours ago
db.sql	Add files via upload	15 days ago
index.html	Add files via upload	3 hours ago
login.html	Add files via upload	3 hours ago
login.php	Add files via upload	3 hours ago

so there was less problems while we were getting everything to work. Github definitely made the work much easier and made working together a lot better.

We used Github to collaborate on the project, some of us working in the master branch and others working in separate individual branches to make certain work easier

Firebase helps mobile and web app teams succeed

[Get started](#) [Watch the video](#)

```
1 • CREATE DATABASE project;
2
3 • USE project;
4
5 • CREATE TABLE Courses (
6     CourseCode VARCHAR(10) PRIMARY KEY,
7     CourseTitle VARCHAR(25),
8     Pictures LONGBLOB,
9     Assignments LONGBLOB,
10    Links VARCHAR(1000)
11 );
12
13 • CREATE TABLE Professors (
14     Email VARCHAR(25) PRIMARY KEY,
15     Password VARCHAR(15)
16 );
17
18 • CREATE TABLE ProfClasses(
19     proClassKey INT PRIMARY KEY AUTO_INCREMENT,
20     CourseCode VARCHAR(10) REFERENCES Courses,
21     FOREIGN KEY (ProfEmail) REFERENCES Professors(Email)
22 );
23
24 • INSERT INTO Professors (Email, CourseCode, Password)
25     VALUES ('esyu@syr.edu', 'badpassword');
```

We used Firebase and MySQL for this project and used both for a different reason. For Firebase, we mainly used that for the authentication for the faculty once they make their login and password. This is to ensure that the right user is getting the right data when they login but also that the login itself is correct and that no random people are getting into the faculty page. The MySQL was more for the actual creation and storing in the database. On the left you can see the code that allows a faculty member to create a new course and then puts it into the database with the correct user so that it can be put into the course list for faculty and then be associated with that faculty member when students look it up later. We also use the database to reference the courses that exist and to load those into the student page so that they can view all the offerings and possible courses to sign up for.

Tasks by each team member

Gianna:

- Page design and layout
- System Architecture
- HTML and CSS
- Powerpoint
- Report
- Collected syllabi and class information

Chris:

- Draw diagrams for pages
- System architecture
- Database
- PHP
- Powerpoint
- Populate student page with courses

Nik:

- MySQL for professor inputting classes
- Inputted syllabi and class information
- Database
- Powerpoint
- Login page