Senior Project
Group 7
Video transcript

<center>Sukh:</center>

Hello my name is sukhmanpreet last name singh and I'll be introducing to the senior project and the team that brought it all together
so the web application that we decided to make is called UChat its a social media application that helps users come together so everyone that helped in this project is Melanie, Jordan, and myself, sukhmanpreet, and theodore.
 so we made a application called UChat so it helps build a communities together since you're forced to join a group right when you register from their console you automatically put into a group and it also helps you make new friends with the same interests as you and It also helps you with rapid communications during a crisis event like anything like, let's say if Covid hits or anything like that it could help communicate with other users across the world. so some of the things that we're trying to solve is people losing friendships since Covid I'm pretty sure we all heard the term that "oh I'm losing this friendship because of this pandemic" because people cannot really go out during this pandemic due to some restrictions of the government that put up or because some people are afraid that they might catch the virus or stuff like that so they start losing interest in other people so they might start feeling like "oh I don't value to this person anymore" and stuff like that so they might start having some type of a health issue and stuff like that and that's where sometimes people feel like they do not fit in a certain group or they feel like they don't fit where they are at this moment so that's why whenever you sign up for our website we also ask people like what are their interests and stuff like that so with the similar interests we put them into a one group so they are forced to join a group right when they join. and our target audience is basically anyone who's trying to make new friends and we don't really have any restrictions on who could join our website or who cannot as long as they're over the age of 13 they're welcome to join our website so basically we're just trying to find ways for people who want to connect and make new friends and basically your other target would be whoever wants to make new connections make new friends and meet new people and also who's whoever is trying to build communication skills so that is something else we're trying to target as well. so some of the features that we already have into our website is private chat basically which is one to one chat with other members of the website as well and we also have friends where a user can see their friends and list of their friends and we already have a new chat room so basically it's our room it's open room where a users can come and talk to each other and we also have notifications so every time someone

says your friend request or someone likes your post or they call it on your post you will get a notifications for those as well and we also have where on each user's profile it shows you what they're interested and if you also have the same interests as other users so you could always message them. so some of the upcoming features that we will be putting is a customer support so basically we all know there is always people who likes to troll around or just you know... cyber bully other users and stuff like that so we would have customer support where a user could contact someone and who can ban users and stuff like that and what could they could basically report other users and we would be indicating reset password which would be a really important role that would play. so basically I've used the for kids their password they could I don't have a verification link sent to their email that they used to sign up so they could always reset their password and we will be having where we can ban users who have either cyberbullied other users or basically who's being controlled on the website and we will also be having where the people could see who viewed their profile so that would be coming as soon as well and we also have we will have an admin page so basically someone anyone who has like contacts customer support, someone on the admin page could help take care of those tickets basically every time a customer support user sends in a ticket so basically an admin will take care of that ticket and help Uchat customers

Melanie:

Hi my name is Melanie, and I'll be discussing the project's timeline.
So, We used the Kanban method of programming and management in order to fit with the group member's varying schedules.
Our goal for this project is to create a social media website, but with the addition of a unique feature that clusters it's users together based on their answers to a questionnaire. That way, users are placed into groups of people who like the same things they do, making it easier to bond with individuals and make friends. Thus far we have a working social media website with all the fundamental features of one too such as: Signing Up or Logging in, Posting, commenting, Messaging, and General Browsing. Our timeline shows that our milestones and objectives have greatly changed as time has gone by.
Originally, we had 3 general milestones. Communication, Database synchronization, and K means algorithm implementation. We have since updated our milestones to better present the workflow of our group thus far and where we plan to go from here. Milestone one Communication, remains the same because we implemented that last semester. It was a goal of being able to show that we could host our own local servers and connect to them, so we all could work remotely of one another. Milestone two is the addition of a new milestone called HTML Implementation where the members created web page layouts of the site to better show the general idea of the page and block out

the elements for the bigger important features. We finished this milestone last semester as well. Milestone three is Database synchronization, which originally was the idea that each member could connect to the database remotely, but it has been rewritten to where each member can query data from and into their database. A subgoal of this milestone is keeping track of their tables and rows so that implementation of the next milestone goes smoothly. Milestone four is Aggregation of Code. This milestone is where our members have to... ideally push out code up to the repo where we then work on connecting into only one server that holds all the necessary tables and information needed to run the website. This is where our group currently is at. This is arguably the hardest part of the project thus far, because some of our members used MySQL as their database and others used Mongo DB. Meaning that we had to translate our code from one language to another which led to a few unnecessary errors in code but for the most part much of the code is the same and works the same. We are still currently working on translating all our code and combining all our pages and functions together. The final Milestone of this project is the K means algorithm implementation, which is what we plan to implement soon. It is the unique feature of the site that I mentioned earlier that will automatically cluster our users together based on their responses.
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SO As i have already mentioned, we have a working website in place with all the basic features of a normal site. We start at the Login page that will redirect to a sign up page for new users. It's a standard sign up form with form validation and password hashing. The questionnaire is implemented directly into the signin form temporarily . Once the User creates their account they are redirected to the login sheet where they login with their email and password. Then they are at the Homepage that is basically a feed, similar to other sites like twitter and instagram. Users can create a small text post or image post that the public can see and interact with. Comments have been implemented, so users can comment on posts. From there we have implemented a chatroom where users can come together and chat with strangers and be exposed to new people. We also implemented user profiles, so a user can click on their own profile and see the posts they have made and general information about themselves. Similarly a user can view another users profile and history of posts. A user also can update and add to their information that will change upon submission. And finally a user can logout of their account if need be. Overall our group has all the basic features we need, but plan to continue implementing smaller important features, while improving on the ones we already have.

Jordan:

Here is the first page of our website.

Sukhmanpreet is responsible for creating the login, sign-up pages and most of the css layout of the other pages. Here, the user will be prompted to enter their required information in the input fields/forms. After signing up, they will proceed to the login page to enter their email and password. Next, they will proceed to their profile page.

Theodore is responsible for the profile page. This page allows users to view their personal information and update their profile page by making it unique. They can add a cover picture, profile picture,

Next, the user will notice the main menu on the left-hand side where the user can access other features/pages.

I (Jordan) am responsible for creating the chat room page. This page allows all users to communicate with each other in one huge text thread. Form validation is used so that no empty input can be stored in the database, nor can names with numbers be stored. After the user fills in their name and message, they'll see the text thread and can respond to whoever they want.

Melanie is responsible for the feed page. This page displays all of the content that users want to share and post to other users like a picture, announcement, etc. Users can 'Like' and comment on the post.

Theo:

Throughout the semester, there were many challenges we faced when working on our social media project: They were many schedule conflicts; most of us were either busy with work or dealing with other classes in school. We had different code styles; some codes had less readability and understanding. We had different database servers; we focused on our own individual contribution locally on our own individual test phase. Merging each code together in one page; there were some inconsistencies when merging our own contributions together to form one single page.

What we learned more knowledge in website development – We were able to create new ideas to hone our skills that we've learned throughout our courses, especially web development. We adapted in making such improvements in html, javascript, css, and php implementation. creating web server host – We were able to create our own web server host locally. While it is a challenge to merge other databases, we were able to understand how to code our own database and how to use its functions that are

implemented through php and such. implementing databases – We were able to create a substantial amount of databases used to help visualize what we created and how we can store information. In web development, coding style does not matter; every website is formatted differently. So whether it be php, python, javascript, or other languages, each coding style can be implemented in a website.

Future Project Plans : Adding k-algorithm – the machine learning technique that we want use to collect more data and features to improve and update our website more efficiently. Add in more features – Some of the features haven't been added to our own individual contribution and we would like to add more to make our website easy to access and manage tasks. More functionality for our website – Some of the functions in our website needed more polish, so we want to add more functionality to every individual page so that the user won't have to face some issues and problems that would eventually arise in the future. And that is our Senior Project – Social-Media Website. Thank you, and have a wonderful day.