

Design Journey Part 1

Group name: LKR

Members' names: Kevin Lin, Hong Kong, Hao Rong

Members' NetIDs: kl738, htk25, hr335

Section: 213

Part 1: Client Selection

Client Description

Tell us about your client. Who is your client? What kind of website do they want? What are their key goals?

Our client is the Cornell Swing Dance Club. They currently do not have a website, and they would like an informational website to inform visitors about upcoming events, the history of the dance, the members of the club, and a media gallery. Mainly, it would be to attract new members of the community to join, and to provide current members with information about club events.

Target Audience

Tell us about the potential consumers of this website. How, when, and where would they interact with the website? Get as much detail as possible from the client to help you find representative users. This will make it easier for you to test your site on potential users and to generate useful personas.

The target audience will be members of the Cornell community and neighboring Ithaca community. The audience would interact with the website anytime they are curious about the club in general, or would like to attend an swing dance event.

Purpose & Content

Tell us the purpose of the website and what it is all about.

The purpose of the website is to inform members of the Cornell and Ithaca community about the Cornell Swing Dance Club. Ultimately, the goal is attract more members to attend swing dance club meetings and events. The website should be fun and elegant while clearly providing information about the activities of the club.

Hosting Plan

Where will the site be hosted?

Our site will be hosted on the course server, but we are open to migrate the site to a different host after the course is over.

Needs and Wants

In this table, collect your client's and target audience's needs and wants for the website. Come up with several appropriate design ideas on how those needs may be met. In the Memo column, justify your ideas and add any additional comments you have. There is no specific number of needs required for this, but you need enough to do the job.

Needs and wants (What does your client and audience need and want?)	Design ideas and choices (How will you meet those needs and wants?)	Memo (Justify your decisions; Additional notes)
Example: Client wants to cater to people who speak different languages	Example: Create web-pages manually in multiple languages, use google translate to auto-translate the site on the fly.	Example: Creating multiple pages manually would require manual skills, effort and time that we do not have. Using auto-translate using Google-Translate API is an easier way to go. Plus, we would like to learn the Google Translate API.
Client wants to let anyone visiting the website be able to leave a comment	Create a webpage with a form and store the suggestion into a database	Creates a text form to create anonymous suggestions for the club.
Client wants to show the upcoming events of the club	Create a calendar using Google API to show the events.	Creates a visually appealing calendar while allowing external editing, by using the Google Calendar API
Client only wants the E-board members to be able to edit the photo gallery	Create a login system, and let the users to access the page, in which the users can edit the images that are going to be displayed in the photo gallery.	Allows all visitors of the website to view the images, but only the E-board members to edit the gallery.
Client only wants the E-board members to be able to edit the information about E-board member.	We will have a login system, and let the E-board members who login to add/edit/delete the information about a E-board member.	E-board information will change from time to time. Thus, it's logical to create a database to store the info. and let only the members of E-board to edit it.
Client wants to a way of displaying photos of the swing dance events.	Create a photo gallery with images about the club activities.	A photo gallery and let the website visitors to visualize how the dance club is like in a small space.

Part 2: Project requirements

Design

What design elements should be utilized? Tell us about the design elements you plan to have for the site. Do they fit your client's needs? Why did you choose to follow (or not to follow) the client's expectations? If you chose not to accommodate a need, why did you make that decision?

We would like to design the website in a very similar manner to the website of the Houston Swing Dance Society because these websites serve the same purpose: to inform the locals about the swing scene at the Cornell Swing Dance Club. The client would like that the website is very simple and elegant, because it is just an informational website. We will follow a similar format by interlacing photos with the titles, and having a consistent navigation bar that sticks to the top. Also, many small relevant links, contact, and mailing list form will be added in the footer.

Client's Edits

Does the client need the ability to edit the site after the end of the semester? If **Yes**, tell us how you site fit your client's need. If **No**, write down N/A.

Yes, the client would like to edit the site after the end of the semester. Specifically, it is important to be able to change the information of the current E-board members, and to edit the photo gallery. Thus, we will build a login system so that an admin user can edit these databases from the website itself. The upcoming events page utilizes google calendar, so that can be be edited externally.

Information Architecture, Content, and Navigation

Lay out the plan for how you'll organize the site and which content will go where. Note any content (e.g., text, image) that you need to make/get from the client.

Note: As with the Needs and Wants table, there is no specific amount to write here. You simply need enough content to do the job.

Main navigation (List your site's navigation here)	Sub category (List any sub categories of under the main navigation)	Content (List all the content corresponding to main navigation and sub categories)
Home		Home: Class/lesson times. Location with map/pictures. Upcoming events.
About	E-board members History Code of Etiquette FAQ	E-board members: list of members with name, year, photo, short blurb History: brief informational overview of the dance(text and some photos) Code of Etiquette: informational text FAQ: Text of some frequently asked questions
Calendar		Calendar: a calendar of all upcoming Cornell Swing Club meetings and big swing dances, as well as other un-affiliated events in the local region(all color-coded)
Gallery		Photos: Table view of many photos in the club. Can be clicked to enlarge. Can be viewed by all, but edited by only logged-in admin user.
Suggestion Box		To public: text form to submit anonymous suggestions To admin: list of suggestions ordered by date created
Login		Login form: only for admin account to edit photos, info.

Interactivity

What interactive features will your site have? What PHP elements will you include?

Much of this is up to you, however, implementing a login system is **required**. Logging in should not be required to view the site, however it must unlock extra functionality, e.g., admin functionality, comment posting, etc.

Also, describe how the interactivity connects with the needs of the clients/target audience.

The website will be viewable by anybody. However, one must be logged in as an admin user to edit the information/photos of the website. There is not much interactivity in the website to the public as it's mostly informational. There will a mailing list form in the footer to be added to the listserv, and a suggestion box form to submit anonymous suggestions to the club. The navigation bar at the top of the screen will be used to access each page. A sitemap can be found in the footer for each main category website.

Use of Existing Libraries

What libraries (e.g. editor.js, jQuery Cookie, Image Sliders, jQuery) are you planning to use for the site? What do you have to do to incorporate those libraries? How much of your own code will satisfy the project requirements?

jQuery for now. We may add other libraries later as we begin writing code, depending on what is more efficient.

Database

How will you use a database to improve the functionality of the website? Describe a possible schema that could meet your client's needs.

Well, we will use the database to store the E-board member info, suggestions, and photos

E-Board_member(name, imageFile, year, blurb)

Photo(name, caption, credit, imageFile)

Suggestion(text, date_created)

Users(username, hashedpassword)

Scale

How large will the site be (approximate number of pages) and how many hours of work will be required to complete it?

The website will be approximately 8 pages. We estimate around 50 hours to complete it.

Part 3: Work Distribution

Describe how each of your responsibilities will be distributed among your group members.

Who will be responsible for backing up other members should someone fail to meet a deadline? How will you communicate with each other? What are your expectations for communication? How will you share your design documents and ensure that no one disrupts each other's code? How will you manage deadlines? How will you keep track of task completion and the progress within your group?

If you will be using any tools for scheduling, sharing documents, managing tasks, etc., make sure you describe them here. This is also a good time to identify challenges (like who will be unavailable due to religious holidays or sports events), and how you will manage these challenges. Keep updating this on a regular basis for your own benefit.

If you are not tracking tasks (calendars, shared to-do lists, bug trackers or gantt charts, etc.), you might want to use the basic task tracking table shown below.

Set internal deadlines. Whose task needs to be completed first in order for another person's task to be relevant? Be specific in your task descriptions so that everyone knows what needs to be done and can track the progress effectively. Consider how much time will be needed to review and integrate each other's work. Most of all, make sure that tasks are balanced across the team.

Note: Again, you want the right number of items for the job. The table should have enough information such that each team member understands what is expected of them and by when.

Task	Team Member Names and roles	Due Date	Status
Correspond with the client	Kevin Lin	April 17th	Done
Input content	Kevin Lin	May 2nd	In Progress
Website Layout/Design	Hao Rong	April 25th	In Progress
Responsible for CSS	Hao Rong	April 25th	In Progress

Photoshop Titles	Hao Rong	May 2nd	In Progress
DB Systems: Design Gallery/login/Suggestion Box	Hong Kong	April 25th	In Progress
DB Systems: Implement Gallery/login/Suggestion Box	Hong Kong	May 2nd	In Progress
Google Calendar API	Kevin Lin	April 25th	In Progress

Part 4: Additional Comments

If you feel like you haven't fully explained your design choices, or if you want to explain some other functions in your site (such as special design decisions that might not meet the final project requirements), you can use this space to justify your design choices or ask other questions about the project and process.

Design Journey Part 2

Group name: LKR

Members' names: Kevin Lin, Hong Kong, Hao Rong

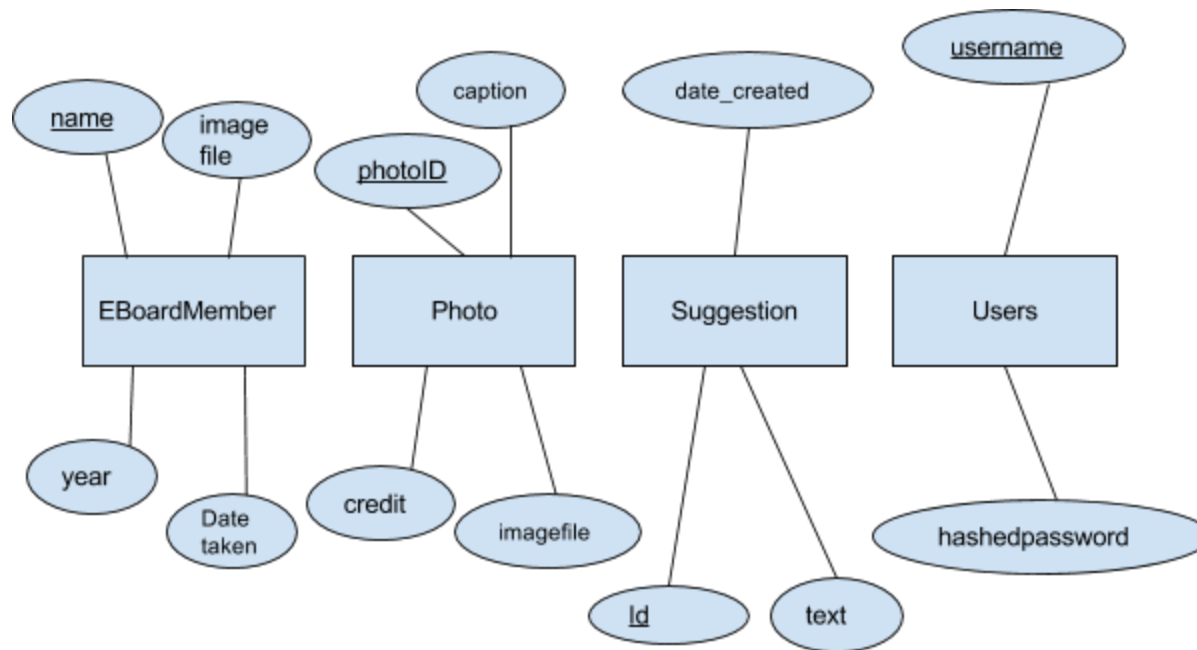
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Part 1: Database Design

Conceptual ER Diagram (different arrows, see slide 13 of Lecture 17; relationship and ER, see lecture 16 and 18)

In this part, please copy and paste your ER diagram for your database below (you can make your ER diagram using any tool of your choice). Make sure the relationships between each entity are clear and well thought-out. Don't forget to indicate what kind of relationship each arrow represents. Your database description should go on the next page.



Database Description

Tell us what the database does. Make sure that you include enough detail so that we are able to understand what is going on in your ER diagram.

All tables are independent because they populate information on different pages. As our database structure is rather simple, we will compensate with more advanced php and javascript design.

Part 2: Website Layout

Content Organization

This should be an improvement upon the table you used in **Design Journey Part 1**

Main navigation (List your site's navigation here)	Sub category (List any sub categories of under the main navigation)	Content (List all the content corresponding to main navigation and sub categories)
Home		Home: Class/lesson times. Location with map/pictures. Upcoming events.
About	E-board members History Code of Etiquette FAQ	E-board members: list of members with name, year, photo, short blurb History: brief informational overview of the dance(text and some photos) Code of Etiquette: informational text FAQ: Text of some frequently asked questions
Calendar	Event Classes	Event: a calendar of all upcoming Cornell Swing Club meetings and big swing dances, as well as other un-affiliated events in the local region(all color-coded) Classes: regular classes with time and detailed description on class
Gallery		Photos: Table view of many photos in the club. Can be clicked to enlarge. Can be viewed by all, but edited by only logged-in admin user.
Contact us	Suggestion Box Contact Information	Suggestion Box (To public): text form to submit anonymous suggestions Suggestion Box (To admin): list of suggestions ordered by date created Contact Information: Office address, Work phone, Club email
Login		Login form: only for the admin account to edit photos, info.

Navigational Structure

Explain how users will move between pages. What kind of navigational aids will you have? Will there be a menu bar? A drop-down menu? Tabs? Will you have this available across all your pages?

Tell us why you chose a particular navigation scheme over other possible choices, how the overall navigation of your site will work, how the various pages will be linked, and how the navigation categories make sense from a user's perspective. You may find it helpful to include a diagram of your site map [here](#).

We would like to use a navigational bar along the top of the website that stays near the top using relative positioning. This allows the user to always be able to access the other pages of the site, even when scrolling down. As we have main categories and sub-categories, there will be drop down categories in the navigation bar to access more specific content pages. Furthermore, since our page will have a detailed footer, the main categories will reappear in the footer in the form of a site map once the user has scrolled to the bottom of any page.

Part 3: Interactive Functionality

What interactive features will your site have? What PHP and Javascript elements will you include? Describe how the interactivity meets the needs of the clients/target audience.

The website will be viewable by anybody who want to learn about the club. Detailed information of various aspect of the clubs are provided under different tabs. There will a mailing list form in the footer to be added to the listserv, and a suggestion box form to submit anonymous suggestions to the club. The navigation bar at the top of the screen will be used to access each page. A sitemap can be found in the footer for each main category website. However, one must be logged in as an admin user to edit the information/photos of the website. Limited interactivity in the website is to the public as most of the contents are informational.

PHP Interactivity

For each piece of PHP interactivity that you plan to implement, describe what the interaction is, how you will implement it, and which pieces of PHP code are required to complete it. You can describe these in terms of functions if you like, but only if you want to. If there is overlap between PHP and JavaScript interactivity, describe the interaction both here and in the JavaScript Interactivity section on the next page.

PHP interactivity mainly include dynamically change the contents of the html and connected to database. Uniformed website frame will be used by calling the php file like footer.php, header.php, etc. The realization of the website database also require connection between database and content by using sql command in php. Common users are able to submit suggestion through sql request. Admin user can view and manage these message received or update photo album.

JavaScript Interactivity

For each piece of JavaScript interactivity that you plan to implement, describe what the interaction is, how you will implement it, and which pieces of PHP code are required to complete it. You can describe these in terms of functions if you like, but only if you want to. If there is overlap between PHP and JavaScript interactivity, describe the interaction both here and in the PHP Interactivity section on the previous page.

The functionality of JavaScript will be used to double enforce the user's input aside from php. It also will be used as sending reminding message like the moment when non-admin user try to use some admin function. JavaScript would also be used as creating interactive plot or graph. We are considering about creating a dynamic introduction of e-board member using SVG and javascript elements.

Compared to the first milestone, did you make any changes to your plan to use the existing libraries (e.g. editor.js, jQuery Cookie, Image Sliders, jQuery) for the site? If so, write down the libraries, what you have to do to incorporate those libraries, and how much of your own code will satisfy the project requirements. If there is no change, write down N/A.

jQuery. D3 may be used if we choose to implement some interactive graph. We may add other libraries later as we begin writing code, depending on what is more efficient.

Part 4: Additional Comments

If you feel like you haven't fully explained your design choices, or you want to explain specific functions in detail, do so here. You can use this space to justify your design choices or ask other questions about the project and process.

Design Journey Part 3

Group name: LKR

Members' names: Kevin Lin, Hong Kong, Hao Rong

Members' NetIDs: kl738, htk25, hr335

Section: 213

Part 1: Necessary Information

1. Please provide us your login username and password
(if your site has multiple login systems, please specify which username and password corresponded to which login system)

Username: admin

Password: abc123

2. Please provide us your DB login username and password

Username:fp_lkr

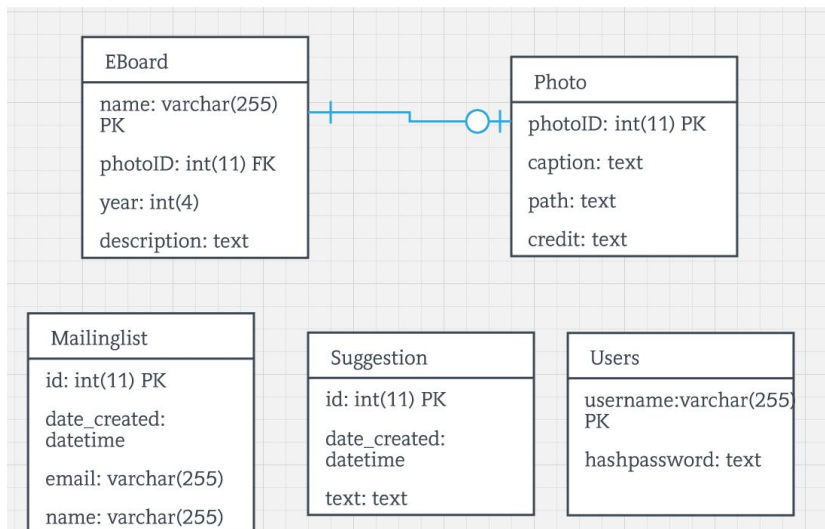
Password:5p^?L=-dLeKRpSWM

Part 2. Database Revision and Implementation

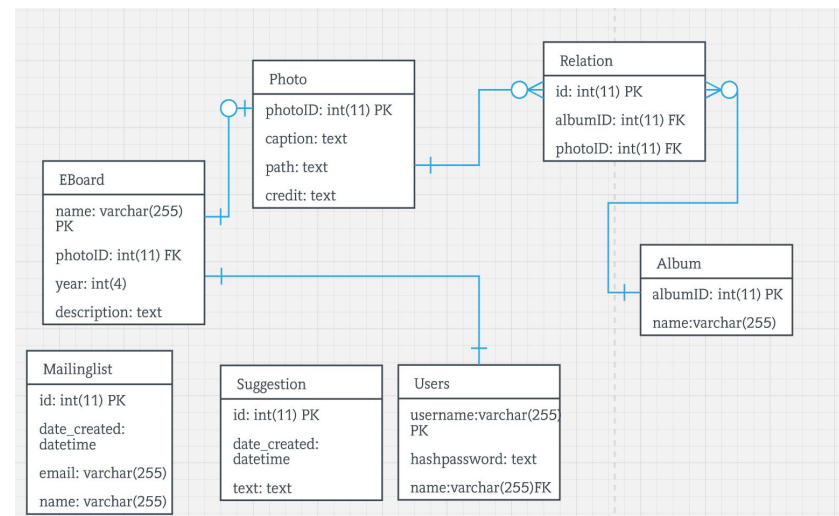
Include your physical ER diagram here and describe any changes you made based on feedback from the previous milestone. Also describe the physical ER diagram (tables, fields, keys, and relationship, please see lecture 17 slides 21).

From the feedbacks we got from several TAs, it seems that our database scheme was too simple, as you can see from the left physical ER diagram. Thus, we decided to create a many-to-many relationship to hold the photo within the “album” or event, the one on the right. Basically, any user can choose an event in the drop-down menu, and the website will refresh with the photos belonging to that events. We know that it will be better to store the image/headshot of the eboard member into the photo table. Thus, we made a one-to-zero or one relationship between them(). Mailinglist, suggestion, and users table are all independent. Also, we made a mailing list table to store the email address from people who sign for the mailing list, which is advised in part 2 feedback. We also provide a lot of “editing power”, such as being able to add, edit, and remove the EBoard entry if logged in as an admin, being able to add, edit, and remove the Photo entry if logged in as an admin, and being able to see all the suggestion and (if the admin wants to) delete them etc. As for suggestions, we decided to not create the field for private/public because the client wants that all suggestions be private and anonymous, such that only the admin can see it. As promised in the previous design journey map, we have multiple admin users who have the same authority in term editing the website. In conclusion, we have EBoard and Users one-to-one relation, EBoard and Photo one-to-zero or one relation, and Photo and Album many-to-many relation.

The old one.



The updated version.



Part 3: Testing Protocol

How are you going to choose users?

How will they be representative of the target audience? How will you find them? Where will you meet them? Will you compensate them?

We will choose users by asking members of the Cornell undergraduate student population and local Ithaca community. They will be representative of the target audience because the website targets the Cornell undergrad student population and local community in general, rather than only members of the swing dance club. We will find these users by asking friends with some of them having 0 experience dancing/0 participation in swing dance club, as well as some of the more regular members. Thus, we will be able to have external feedback from all of the Cornell undergraduate and Ithaca population. We will meet them 1-1 anywhere private that is convenient for them: library, dorm lobby. No compensation will be provided since it is fairly simple to look over a website as a personal favor.

What tasks are you going to have them do? How would these tasks connect with the client's needs?

Task name/id	Task description	Task goal/what's being tested/expected outcomes
First impression	Ask the user to look at the site for 5 seconds and describe their emotional and intellectual reactions	Want to see whether the design communicates client's key site goals to the target audience; want to see if people find the site nice to look at, and deem it useful
Find the officers	Ask the user to find the names of the officers of the club	Testing whether a potential new member can find info about club leaders quickly and easily; ideally, they should click on the "About" drop down menu and find the "Eboard" tab
Find Meeting Times and Location	Ask the user to find when/where the regular club meetings are	Testing whether a member can find info about weekly club meetings; user can find this information in many places including home page(scrolling down), calendar, class, and faq pages
Find pictures	Ask the user to find photos of activities of the club	Test whether user can find photos of the club; ideally, click on the "gallery" tab in the nav bar
Find when the end-of semester dances are	Ask the user to find the details of the end-of-semester dances	Tests whether user will look at the event drop down menu to find the calendar page, also can be found on home page
What should one	Ask the user to find what is recommended to wear while swing	Tests whether user can locate the dedicated FAQs page, or

wear when dancing	dancing	the faq slider on the home page for dance attire info.
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What's your script?

How are you going to welcome them? Reassure them that you're testing the site, not them? Get them to think aloud while they use the site?

How are you going to introduce each task? What wording will you give the user? Will you give them any information in advance (probably not -- they won't have it in a real deployment -- but for sketches and early prototypes you might tell them that some things don't work)? How will you remind them to think aloud? How will you decide when to "give up" on the task?

Afterwards, what specific questions or general opinions will you ask for about their experience or the site? How will you thank them?

Introduction: Hi. I'm working on a website for the Cornell Swing Dance Club, and I want to get some feedback on the user experience of the website. Could you take a look at it?

Introducing Tasks: Thanks for helping to test the site. This site is still just a prototype and some things might be a bit buggy, so just try your best. I'm going to give you a few tasks on this sheet of paper and watch as you perform them. Please try to think aloud while you're going through them.

Tasks on the Paper:

1. Find who the officers are.
2. Find when and where does the club meet.
3. Locate some photos of social dances.
4. Figure out when the big end-of-semester dances are.
5. What is recommended to wear for swing dancing?
6. What are 3 adjectives that describe this site?

(While the user is going through the tasks, we will take extensive notes on the process. We will acknowledge issues as they occur but never assist them in fixing anything. If the user gets stuck, then we will tell them to just move on. If the user isn't thinking aloud, we'll offer gentle reminders such as "Are you looking for a particular section?" or "What are you thinking about now?" We'll be active listeners to acknowledge all feedback. For each task, we'll grade the task on success-yes, yes with assistance, no. Although this process might be uncomfortable, it will elicit very good feedback about the user experience.)

After finishing the tasks: Thank you so much for doing these. We learned a lot about our own site. What were your general impressions as you were going through these tasks? What do you think about your experience with the site overall?

At the end: Thanks for helping us out. Really appreciated the feedback, and we'll try to incorporate it as best as we can to make the site better. Have a nice day.

Part 4: Testing Note

You should have at least 2 testing users.

User 1

1. Who is your user, e.g., where do they come from, what is their background, etc.?

Freshmen undergraduate student who really enjoys Jazz music. Has absolutely no experience dancing.

2. How does this user represent your target audience/client's needs?

This student represents the population of Cornell students who may be interested in Swing Dance as a social activity but has no idea what the club is about.

Tasks for user 1	User's reaction/feedback/problems?	Re-design ideas and other notes - <i>what are the different solutions you can think of to address the feedback/problem?</i>
First impression	Elegant, clean website	Change font of titles to a serif script
Find the officers	Could find EBoard page under About drop-down menu easily	
Find Meeting Times and Location	Could find Class page under Event page easily	
Find pictures	Clicked on Gallery in navbar very easily	
Find when the end-of semester dances are	Clicked on Calendar page under Event page easily A bit difficult to find more information in calendar	Color code events in calendar based on type(lesson/big dance/workshop)
What should one wear when dancing	Found answer in FAQ section	Make questions bold/bigger so questions are easier to identify

3. Other notes from this user that will be useful to think about when redesigning.

It may be useful to place the same information in many places. Information can be redundant sometimes because users will not always visit all possible pages.

User 2

1. Who is your user, e.g., where do they come from, what is their background, etc.?

Junior undergraduate student, member of the swing dance club

2. How does this user represent your target audience/client's needs?

This student represents the population of Cornell students who come to the swing dance club

Tasks for user 2	User's reaction/feedback/problems?	Re-design ideas and other notes - <i>what are the different solutions you can think of to address the feedback/problem?</i>
First impression	Elegant, clean website, but title font isn't elegant	Change title font to serif font to be more elegant-looking
Find the officers	Could find "EBoard" page under "About" dropdown menu easily	
Find Meeting Times and Location	Could find meeting times and locations under FAQ page.	
Find pictures	Clicked on Gallery in navbar very easily	
Find when the end-of semester dances are	Found on calendar page and in home page	Put links in the calendar to the facebook page, where there will be more details about the big dance events.
What should one wear when dancing	Found on FAQs section easily, although hard to tell which are questions and which are answers	Make questions bold/bigger or enumerate the questions and their respective answers.

3. Other notes from this user that will be useful to think about when redesigning.

Suggestion to move the Admin Login from the navigation bar somewhere down below.
Add more links in the footer for other local swing scenes.

User 3

1. Who is your user, e.g., where do they come from, what is their background, etc.?

Ithaca local who dances swing

2. How does this user represent your target audience/client's needs?

This student represents the population of the local community not necessarily affiliated with Cornell. The club is open to the public so it is nice to have feedback from people who live in Ithaca who might be coming.

Tasks for user 3	User's reaction/feedback/problems?	Re-design ideas and other notes - <i>what are the different solutions you can think of to address the feedback/problem?</i>
First impression	Nice website	
Find the officers	Could find EBoard page under About dropdown menu easily	
Find Meeting Times and Location	Could find Class page under "Event" drop down menu easily	Some photos showing the location would be nice.
Find pictures	Clicked on Gallery in navbar very easily	
Find when the end-of semester dances are	Took a bit long to find. Encountered problem because she didn't know the home page could be scrolled down.	Add an arrow to the bottom of the home screen indicating that there is more content below.
What should one wear when dancing	Found in FAQ page and in the slider on the home page, Looks clumsy on the FAQ page	It is good that we have information displayed in many pages. Make the question font bigger/bold so differentiate it from the answers.

3. Other notes from this user that will be useful to think about when redesigning.

The Home page doesn't look like it can scroll, so adding an arrow to the bottom of the home page would be a good idea to indicate that there is more content below.

Testing Summary and Iteration

What did you learn? About your users? About your site? About yourselves?

First of all, many users were very impressed with our design. Apparently it's impressive to others that we were able to code this website. Also, first impressions weren't very detailed. They just said, "oh that looks nice." However, there is always something that needs to be optimized or improved, which is what was honed in on when we asked the users to perform the tasks outlined in the testing protocol. This confirms that the testing protocol really does help.

One big thing we learned was the information needs to be categorized very well. There must not be any ambiguity in where certain information should go. The user should always know exactly where to look. It also doesn't hurt to put the same information in many places. Obviously, the website has many pages, and the average user doesn't have the time to look through all of them. Redundancy of information is sensible so that the user will always be able to find it.

Continuity is also an important aspect of the website. The content, theme, and whole concept of the website must flow together. For example, arial font doesn't mesh well with swing dancing as it doesn't look very elegant or classy. Small details can really throw off the continuity of a website, so attention to detail is very important.

Lastly, we learned about ourselves the importance of working together in person for projects such as these. The communication is much more efficient than group chat messaging. It is important for everyone to first work together in person to get an understanding of each person's job. Then, after the baseline work of the project is completed, we can return home to work on it. This allows everyone to understand where they fit in terms of work.

What are three key changes you made based on the testing, what alternatives did you consider, and why are they appropriate changes?

1. The first key change we made was in the FAQ section. All the text looked very uniform-like a giant blob of letters, and it was difficult to discern the specific questions and answers. We at first considered enumerating the questions and answers to provide more order. However, enumeration would still make it look like a giant blob of text. The key change we made was to make the styling of the questions much bigger and bold. Thus, the user can easily tell where to find the appropriate question and answer with this formatting.
2. Another key change was the change of font of the overall website from a sans-serif font, Arial, to a serif font, Times New Roman. Several users mentioned that the Arial font for the title especially was too plain and ugly. Thus, we changed the fonts to a serif font that is more elegant and classy, and that is more continuous with the theme of swing dancing itself. We are still experimenting to see whether only some headings need to be serif, and if there is a combination of fonts that is more ideal. For example, maybe the titles and main headings are serif, and the paragraphs are sans-serif.
3. Another key change was to have the same information in many pages. For example, the class times is now located on FAQ page, homepage, calendar, and class pages. Although the users were able to locate the class times and locations correctly each time, this information is so essential that it should be more prevalent throughout the website. Users do not always look for the class information in the same way, yet they should all get to it in the end.

If you make any changes to the testing protocol for round 2, tell us what they are here.

N/A

Part 5: Additional Comments/Questions

If you have additional info/comments/questions about testing or the state of the project, you can put them here. However, you might get better responses in office hours at this point in the semester.

Comments:

1. We have done most of the core functionality in regards to the database interaction and login system. For example, users can view the photos of the gallery, view EBoard members, submit suggestions, add themselves to the mailing list. The admin can edit all the aforementioned pages and see the user submissions. We still need to implement the mini-gallery in the home page. This will be very straightforward as it's just the same implementation of the querying in the gallery page, except with limit=3. Also, we need a way for the admin to see the emails in the mailing list, but this is also straightforward as it's the same implementation of viewing the suggestions in a table from the suggestions page.
2. Also, most of the content, styling, and organization is already present. In the very near future, we will add more relevant links to the footer, and update the content to be more relevant and easier to read. The styling of the photos in the gallery will be updated to look more elegant as well.
3. Lastly, there is no sql database for recording the events, as this is managed by an external Google Calendar. We embedded code for Google Calendar such that only the Eboard can edit, and this events calendar is viewable by all from the website.

Design Journey Part 4

Group name: LKR

Members' names: Kevin Lin, Hong Kong, Hao Rong

Members' NetIDs: kl738, htk25, hr335

Section: 213

Part 1: Necessary Information

1. Please provide us your login username and password. Remember, your username and password should be hashed.
(if your site has multiple login systems, please specify which username and password corresponded to which login system)

Username: (1)admin_kevin17
(2)admin_chris
(3)admin_aleksa
(4)admin_aimee

Password: (1)swing!20%20
(2)swing!49%01
(3)swing!28%41
(4)swing!99%00

2. Please provide us your DB login username and password

Username:fp_lkr

Password: 5p^?L=-dLeKRpSWM

Use of Existing Libraries

As there may have been some changes, please give us the most up-to-date list of existing libraries that you are using for your website (e.g. editor.js, jQuery Cookie, Image Sliders, jQuery). What did you have to do to incorporate those libraries? How much of your own code satisfied the project requirements?

We use jQuery and Bootstrap in our website. jQuery is used to control the gallery sorting function and the homepage slideshow function. Bootstrap grid system is mainly used for building the layout of the website, including column separating, block positioning and navigation bar. We have added a lot of style changes on the bootstrap original style in our style.css. We were trying to using D3 to implement the gallery interaction. But later we find better solution by using simply javascript and css, so we later replace D3 part from our code.

Part 2: Testing Protocol

1. How are you going to choose users?

How will they be representative of the target audience? How will you find them? Where will you meet them? Will you compensate them?

We will choose users by asking members of the Cornell undergraduate student population and local Ithaca community. They will be representative of the target audience because the website targets the Cornell undergrad student population and local community in general, rather than only members of the swing dance club. We will find these users by asking friends with some of them having 0 experience dancing/0 participation in swing dance club, as well as some of the more regular members. Thus, we will be able to have external feedback from all of the Cornell undergraduate and Ithaca population. We will meet them 1-1 anywhere private that is convenient for them: library, dorm lobby. No compensation will be provided since it is fairly simple to look over a website as a personal favor.

NOTE: We already had all of the functionality in place for milestone part 3. We also had all of the content filled in for milestone part 3. Besides aesthetic differences, the only changes in functionality were more wow features: adding albums, adding user to eboard relationship, and adding ability to download mailing list. Thus, since we already had all of the core functionality and interactivity in place for milestone part 3, we have recycled that user testing from part 3. For this milestone, we mainly focus on the user interactivity for the client-the president of the club who will be monitoring the site. We added a user who's the president of the swing club and test to see if the president knows how to navigate the more intricate features we have since added.

2. What tasks are you going to have them do? How would these tasks connect with the client's needs?

Task name/id	Task description	Task goal/what's being tested/expected outcomes
First impression	Ask the user to look at the site for 5 seconds and describe their emotional and intellectual reactions	Want to see whether the design communicates client's key site goals to the target audience; want to see if people find the site nice to look at, and deem it useful
Find the officers	Ask the user to find the names of the officers of the club	Testing whether a potential new member can find info about club leaders quickly and easily; ideally, they should click on the "About" drop down menu and find the "Eboard" tab
Find Meeting Times and Location	Ask the user to find when/where the regular club meetings are	Testing whether a member can find info about weekly club meetings; user can find this information in many classes including home page(scrolling down), calendar, class, and faq pages
Find pictures	Ask the user to find photos of activities of the club	Test whether user can find photos of the club; ideally, click on the "gallery" tab in the nav bar
Find when the end-of semester dances are	Ask the user to find the details of the end-of-semester dances	Tests whether user will look at the event drop down menu to find the calendar page, also can be found on home page
What should one wear when dancing	Ask the user to find what is recommended to wear while swing dancing	Tests whether user can locate the dedicated FAQs page, or the faq slider on the home page for dance attire info.

3. What's your script?

How are you going to welcome them? Reassure them that you're testing the site, not them? Get them to think aloud while they use the site?

How are you going to introduce each task? What wording will you give the user? Will you give them any information in advance (probably not -- they won't have it in a real deployment -- but for sketches and early prototypes you might tell them that some things don't work)? How will you remind them to think aloud? How will you decide when to "give up" on the task?

Afterwards, what specific questions or general opinions will you ask for about their experience or the site? How will you thank them?

Introduction: Hi. I'm working on a website for the Cornell Swing Dance Club, and I want to get some feedback on the user experience of the website. Could you take a look at it?

Introducing Tasks: Thanks for helping to test the site. This site is still just a prototype and some things might be a bit buggy, so just try your best. I'm going to give you a few tasks on this sheet of paper and watch as you perform them. Please try to think aloud while you're going through them.

Tasks on the Paper:

1. Find who the officers are.
2. Find when and where does the club meet.
3. Locate some photos of social dances.
4. Figure out when the big end-of-semester dances are.
5. What is recommended to wear for swing dancing?
6. What are 3 adjectives that describe this site?

(While the user is going through the tasks, we will take extensive notes on the process. We will acknowledge issues as they occur but never assist them in fixing anything. If the user gets stuck, then we will tell them to just move on. If the user isn't thinking aloud, we'll offer gentle reminders such as "Are you looking for a particular section?" or "What are you thinking about now?" We'll be active listeners to acknowledge all feedback. For each task, we'll grade the task on success--yes, yes with assistance, no. Although this process might be uncomfortable, it will elicit very good feedback about the user experience.)

After finishing the tasks: Thank you so much for doing these. We learned a lot about our own site. What were your general impressions as you were going through these tasks? What do you think about your experience with the site overall?

At the end: Thanks for helping us out. Really appreciated the feedback, and we'll try to incorporate it as best as we can to make the site better. Have a nice day.

Part 3: Testing Notes

You should have tested your site on at least three representative users.

User 1

1. Who is your user, e.g., where do they come from, what is their background, etc.?

Freshmen undergraduate student who really enjoys Jazz music. Has absolutely no experience dancing.

2. How does this user represent your target audience/client's needs?

This student represents the population of Cornell students who may be interested in Swing Dance as a social activity but has no idea what the club is about.

Tasks for user 1	User's reaction/feedback/problems?	Re-design ideas and other notes - <i>what are the different solutions you can think of to address the feedback/problem?</i>
First impression	Elegant, clean website	Change font of titles to a serif script
Find the officers	Could find EBoard page under About drop-down menu easily	
Find Meeting Times and Location	Could find Class page under Event page easily	
Find pictures	Clicked on Gallery in navbar very easily	
Find when the end-of semester dances are	Clicked on Calendar page under Event page easily A bit difficult to find more information in calendar	Color code events in calendar based on type(lesson/big dance/workshop)
What should one wear when dancing	Found answer in FAQ section	Make questions bold/bigger so questions are easier to identify

3. Other notes from this user that will be useful to think about when redesigning.

It may be useful to place the same information in many places. Information can be redundant sometimes because users will not always visit all possible pages.

User 2

1. Who is your user, e.g., where do they come from, what is their background, etc.?

Junior undergraduate student, member of the swing dance club

2. How does this user represent your target audience/client's needs?

This student represents the population of Cornell students who come to the swing dance club

Tasks for user 2	User's reaction/feedback/problems?	Re-design ideas and other notes - <i>what are the different solutions you can think of to address the feedback/problem?</i>
First impression	Elegant, clean website, but title font isn't elegant	Change title font to serif font to be more elegant-looking
Find the officers	Could find "EBoard" page under "About" dropdown menu easily	
Find Meeting Times and Location	Could find meeting times and locations under FAQ page.	
Find pictures	Clicked on Gallery in navbar very easily	
Find when the end-of semester dances are	Found on calendar page and in home page	Put links in the calendar to the facebook page, where there will be more details about the big dance events.
What should one wear when dancing	Found on FAQs section easily, although hard to tell which are questions and which are answers	Make questions bold/bigger or enumerate the questions and their respective answers.

3. Other notes from this user that will be useful to think about when redesigning.

Add more links in the footer for other local swing scenes.

User 3

1. Who is your user, e.g., where do they come from, what is their background, etc.?

Ithaca local who dances swing

2. How does this user represent your target audience/client's needs?

This student represents the population of the local community not necessarily affiliated with Cornell. The club is open to the public so it is nice to have feedback from people who live in Ithaca who might be coming.

Tasks for user 3	User's reaction/feedback/problems?	Re-design ideas and other notes - <i>what are the different solutions you can think of to address the feedback/problem?</i>
First impression	Nice website	
Find the officers	Could find EBoard page under About dropdown menu easily	
Find Meeting Times and Location	Could find Class page under "Event" drop down menu easily	Some photos showing the location would be nice.
Find pictures	Clicked on Gallery in navbar very easily	
Find when the end-of semester dances are	Foun	Add an arrow to the bottom of the home screen indicating that there is more content below.
What should one wear when dancing	Found in FAQ page and in the slider on the home page, Looks clumsy on the FAQ page	It is good that we have information displayed in many pages. Make the question font bigger/bold so differentiate it from the answers.

3. Other notes from this user that will be useful to think about when redesigning.

The Home page doesn't look like it can scroll, so adding an arrow to the bottom of the home page would be a good idea to indicate that there is more content below.

User 4

1. Who is your user, e.g., where do they come from, what is their background, etc.?

Cornell Swing Dance Club president; president of the club

2. How does this user represent your target audience/client's needs?

This user is the client who wants the website made

Tasks for user 4	User's reaction/feedback/problems?	Re-design ideas and other notes - <i>what are the different solutions you can think of to address the feedback/problem?</i>
First impression	Nice website	
Download mailing list	Clicked download in footer easily	Mailing list is accessible by user too, needs to be exclusive to admin
Add photo to album	Error	Need to change permissions
Delete a suggestion	Done easily	No issues
Add an eboard member	Encountered error because username not long enough	Prompt a message when this happens
Add event	Accessed google calendar through google account	Done easily through own account

3. Other notes from this user that will be useful to think about when redesigning.

It's important to ensure regular users can't access things that only admins should access. In this case, we realized users could access mailing list when it should only be an admin. We also made it possible to edit eboard member/along with its user login info, so the site is maintainable throughout the years without needing to contact webmaster.

Part 4: Testing Summary and Iteration

1. What did you learn about your users? About your site? About yourselves?

First of all, many users were very impressed with our design. Apparently it's impressive to others that we were able to code this website. Also, first impressions weren't very detailed. They just said, "oh that looks nice." However, there is always something that needs to be optimized or improved, which is what was honed in on when we asked the users to perform the tasks outlined in the testing protocol. This confirms that the testing protocol really does help.

One big thing we learned was the information needs to be categorized very well. There must not be any ambiguity in where certain information should go. The user should always know exactly where to look. It also doesn't hurt to put the same information in many places. Obviously, the website has many pages, and the average user doesn't have the time to look through all of them. Redundancy of information is sensible so that the user will always be able to find it.

Continuity is also an important aspect of the website. The content, theme, and whole concept of the website must flow together. For example, arial font doesn't mesh well with swing dancing as it doesn't look very elegant or classy. Small details can really throw off the continuity of a website, so attention to detail is very important.

Lastly, we learned about ourselves the importance of working together in person for projects such as these. The communication is much more efficient than group chat messaging. It is important for everyone to first work together in person to get an understanding of each person's job. Then, after the baseline work of the project is completed, we can return home to work on it. This allows everyone to understand where they fit in terms of work.

2. What are three key changes you made based on the testing? What alternatives did you consider? Why are these changes appropriate?

1. The first key change we made was in the FAQ section. All the text looked very uniform-like a giant blob of letters, and it was difficult to discern the specific questions and answers. We at first considered enumerating the questions and answers to provide more order. However, enumeration would still make it look like a giant blob of text. The key change we made was to make the styling of the questions much bigger and bold. Thus, the user can easily tell where to find the appropriate question and answer with this formatting.
2. Another key change was the change of font of the overall website from a sans-serif font, Arial, to a serif font, Times New Roman. Several users mentioned that the Arial font for the title especially was too plain and ugly. Thus, we changed the fonts to a serif font that is more elegant and classy, and that is more continuous with the theme of swing dancing itself. We are still experimenting to see whether only some headings need to be serif, and if there is a combination of fonts that is more ideal. For example, maybe the titles and main headings are serif, and the paragraphs are sans-serif.
3. Another key change was to have the same information in many pages. For example, the class times is now located on FAQ page, homepage, calendar, and class pages. Although the users were able to locate the class times and locations correctly each time, this information is so essential that it should be more prevalent throughout the website. Users do not always look for the class information in the same way, yet they should all get to it in the end.

Extra: For part 4, we also tested the admin functionality of the website. We added some functionalities such that the eboard members can each have an account to monitor the website. It is also more maintainable in the long run as each eboard can edit photos and eboard users themselves, so when the Eboard changes, new Eboard members will be able to have their accounts too. We also added functionality to download the mailing list to spreadsheet so it's easier to copy into a mass email or add to lync. We also discovered a bug that allowed normal viewers to download the mailing list. We changed so only logged in eboard users can download this mailing list.

Part 5: Final Notes to the Clients

1. Describe in some detail what the client will do (or would have to do) in order to make this website go live. What is the deployment plan?

Client would need to give us some money to purchase domain and monthly server costs. We have researched domains, and the best one aligned with the client's interests is CUswing.com. We plan on migrating the server to bluehost after semester is over, and handing account over to client. Of course, we are still very easy to contact if there's any issues or changes needed.

2. Include any other information that your client needs to know about your final website design. For example, what client wants or needs were unable to be realized in your final product? Why were you unable to meet those wants/needs?

We addressed all of the needs for the website. Client is very happy and excited about the result of the website.

Part 6: Final Notes to the Graders

1. Give us three specific strengths of your site that sets it apart from the previous website of the client (if applicable) and/or from other websites. Think of this as your chance to argue for the things you did really well (justify the wow factor of your website).

1. Good design-clean, consistent, elegant website; appealing to the eyes and information is very easy to find, met client's needs very well
2. Javascript functionality-scrolling faq on home page, slideshow of selected gallery photos on home page
3. Extensive admin functionality
 - a. Add events through Google calendar api
 - b. Download mailing list to csv spreadsheet format
 - c. View suggestions
 - d. Edit photos/albums
 - e. Edit Eboard members/add new users who can login

2. Tell us about things that don't work, what you wanted to implement, or what you would do if you keep working with the client in the future. Give justifications.

In the future, we would like to spice up the about us sections of the website. The information/content is rather dry. We would have to communicate with the client to figure out an interesting way to present the history/code of etiquette pages. Perhaps we could do an interactive timeline for the history page.

3. Tell us anything else you need us to know for when we're looking at the project.

- Mobile-friendly and scalable to different screen sizes
- Ability to download mailing list to csv format
- Google calendar api to add events
- Ability to extensively edit photos and albums
- View suggestions and delete them
- Captcha check to avoid spam
- Add Eboard members and associated user accounts, so that site is maintainable through the years(The updated ER diagram and associated description is located in milestone part 3)