

# Design Journey Part 1

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Section: 201

## Part 1: Client Selection

### Client Description

Malte Jung is an assistant professor at Cornell University. He is the head researcher for his lab, the Cornell Organizational Robotics lab. He wants his current studies to have more publicity and would like a website to present his lab in a clear and efficient way. He is hoping that students who are interested in the lab will be able to contact him through the website and see his past publications.

### Target Audience

The potential consumers of this website are primarily undergraduate students at Cornell interested in working at the lab. They would interact with the website when exploring potential research opportunities and when looking to learn more about the lab itself, including how to contact the researchers and which other undergraduates currently work there.

### Purpose & Content

The purpose of the website is to provide a clear and well-designed way for students to learn more about the Organizational Robotics Lab. Content will include an overview of what the lab focuses on, brief biographies of Professor Jung and his undergraduate research team, current news from the lab (accessible to lab members via login), and a contact form to contact the lab directly.

### Hosting Plan

Professor Jung expressed that he would like the website to be hosted via Cornell Academic Technologies. This is a service available to all IS and CS faculty to host their personal website on their server.

### Needs and Wants

Needs and wants	Design ideas and choices	Memo
Easy to navigate and understand site with a clean design	Implement a single-page design (e.g., links on navigation bar automatically	Professor Jung requested that we use the single-page design. We plan to use the colors of

	scroll down); keep color and font choice consistent and sharp	the lab's current logo as a starting point for our design.
Biographies of each team member	We will include a section with brief biographies of each team member with a longer description for Professor Jung himself.	We will use thumbnails to show the whole team. Clicking on each thumbnail will display that person's biography.
Lab updates and news	We will include a section designed similar to a blog with the latest updates and news from the lab.	Login will be required to make these posts as an admin.
Contact form	We will include a form to contact the lab. We will make sure the user specifies the purpose of contacting the lab (e.g., interested in joining, business inquiries, press inquiries, etc.).	We plan to connect the form inputs to an outgoing email or database so the team can easily be contacted and see these requests.

## Part 2: Project requirements

### Design

We will be using an extensive amount of CSS to design our website, including small animations for the title page. Our client requested that he wanted a minimalist design, so we hope the layout of our website is neat and easily read. As we mentioned earlier, we plan to keep our colors and overall design consistent throughout the whole website. The main design feature of our site, however, will come with our one-page design (that is, the navigation bar scrolling to each page).

### Client's Edits

Yes – the client will have the ability to update the news/current events section of the website with his admin login.

## Information Architecture, Content, and Navigation

Main navigation	Sub category	Content
Home Page	About Current Studies Past Studies	<p><b>Home Page:</b> Give a brief introduction to the lab and the current/past studies the lab has worked on.</p> <p><b>About:</b> A two paragraph summary of the Organizational Robotics lab provided by our client.</p> <p><b>Current Studies:</b> A summary for each of the current studies in the lab, accompanied with a picture and the names of each researcher working on the study. Our client will provide us with the summaries, and we will have to take pictures of each study.</p> <p><b>Past Studies:</b> A collapsible section will show all of the past studies of the lab, in the same format as Current Studies.</p>
Team	Profile Pictures Contact Info	<p><b>Team:</b> Will show all current graduate and undergraduate researchers involved with the lab, the studies they're working in, a profile picture, and their contact information. The client will provide this information.</p> <p><b>Profile Pictures:</b> Each researcher will have a CSS-styled profile picture.</p> <p><b>Contact Info:</b> Each researcher will have their email listed so that visitors to the site will be able to contact them through an outgoing form.</p>
News	Current Update Past Updates	<p><b>News:</b> The client can access this feature to writes updates about the lab or current studies.</p> <p><b>Current Update:</b> The latest news update from an admin.</p> <p><b>Past Updates:</b> A collapsible form that allows</p>

		users to see past news updates from admins.
Contact Form	Contact Form	<b>Contact Form:</b> A section detailing the main email, number, and address of the lab. This information will be provided by the client.

## Interactivity

Our client requested the ability to make news updates, so we are hoping to include a PHP form so that he can publish an update if he logs in as an admin. He may also delete these news updates. Logging in as an admin will also allow the client to upload new studies summaries under the Home Page. Whenever a visitor to the site clicks on an email listed under one of the researchers, we would like to implement a pop-up form which sends out an outgoing email to that researcher.

## Use of Existing Libraries

jQuery will be used to build interaction for the website. It will be incorporated into the project by including it in the PHP file. The Bootstrap grid system, which is provided on Piazza, will also be utilized in our website for layout.

## Database

We plan to use a database to make sure that we can update the site as efficiently and quickly as possible. We describe below what our preliminary schema will be.

**A user table.** A user table will be implemented for the user so that administrators can login into the website and update the contents they want to display. The table will include user\_ID(int), user\_name(varchar), password(varchar).

**An article table.** The client's core requirement is to publish news and information about the lab on the website. So a rich text editor will be provided for them to do so. In this situation, a record will be generated recording the creation and update of the content. The table will include article\_id(int), article\_title(varchar), directory\_of\_source\_file(varchar), created\_time(date) and updated\_time(date).

**A photo table.** The photos uploaded by user along with their news will be stored into this table, including photo\_ID(int), photo\_directory(varchar), photo\_type(varchar) and uploaded\_time(date).

## Scale

As we have been describing in previous sections, we hope to create a single-page design, with each page on the navigation bar automatically scrolling to the appropriate section. We anticipate having a homepage, a team page, a news page, and a contact page - at this point, we plan on having these four pages. We anticipate that some pages will take longer than others but hope to work on the site in small sections incrementally. We plan to spend 40-50 hours on the site.

## Part 3: Work Distribution

We describe in the table below how we plan to divide up the work evenly while also playing to each group member's strengths. We also assign backup roles for each member in case the primary member for a certain task is for some reason unable to complete that task within a given deadline.

We have a GroupMe message that we use to communicate. We also have set up a GitHub repository so we can easily share our work even if we cannot meet in person at a given time. We will manage deadlines and ensure task completion by discussing tasks and goals each Monday and reconnecting with these that following Friday. At these task assignment meetings, we will also ensure that we assign deadlines so that if someone's work depends on someone else's, this is taken into account and planned accordingly.

Please note that the table below details our work distribution at a high level. Once we begin to code the website and build it up more in-depth, the tasks will become more specific. However, for now, we have established each group member's general role so that everyone understands what he or she needs to do when the project begins to pick up.

Task	Team Member Names and roles	Due Date	Status
Design	Mauricio: main designer, Hanna: backup, debugging. In charge of design plan (phase 2)	4/26	In progress
Database maintenance/SQL	Chenxi: main SQL expert, Hanna & Mauricio: backup, debugging. In charge of design plan for DB (phase 2)	4/26	In progress

HTML/PHP, overall site structure	Hanna: PHP/HTML, Chenxi & Mauricio: backup, debugging. In charge of structure of overall site (page organization, transferring needed files to server -- phase 3)	5/3	In progress