Prototypes

Presentation

We are now halfway to your prototype demonstrations. You should have a clear idea of what three subsystems you will be using as your prototypes, why you have chosen those, and what you expect to learn from them. All of this fits into the design that your group has in mind for your project. Around the same time as your demonstration, you will need to convey all these points to the class, your GTAs, your instructor, and to your client. *There are two parts to this assignment, one is graded in class, and the other is graded through your client evaluation.*

Remember that last time, I said: "You will also need to prepare a presentation on your project, covering the recent prototyping, but also the project as a whole. Think about what you would tell your parents about your project, and think about what you would want to tell your client about your prototype findings." Keep this in mind through this assignment!

The Assignment

Each team will create an 8-10 minute summary presentation on their selected design and the results of the prototype efforts. This should recap the *"who and why"* of your client and their interest in this project, but then quickly move on to telling us about each part of your project, how it all fits together, and what solution(s) you plan to implement for each part.

It's up to each team to decide how to tell their story most effectively (it has to *flow* and *engage* us!), but here is an outline to get you thinking along the right track:

> **First**, quickly **intro** the team, the name of the project you are working on, who your client is, and your GTA mentor. If you have other mentors (technical mentors), be sure to mention them too. This section should be about 15-20 seconds!
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> **Second**, tell us **why** there is a problem that needs to be solved. Maybe it's that the current method of doing X is costly, time consuming, or just down right difficult. Maybe there is no current method of doing what your project is aiming to do! Either way, motivate the why, clearly and succinctly.
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> **Third**, break down your project (overall design) into distinct parts - **subsystems**. Make it clear how these all fit together. Tell us what each part does. You can probably do this in one sentence per part, with a few sentences on how they all work together to accomplish X.
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> **Fourth**, walk us through your thoughts in the **solution for each**. The solution(s) can be as simple as a part (if really really appropriate), but more likely should be a high level view of the approach and what each subsystem will do. As an example, you should think about exactly what subsystem 1 does, and what parts you will need within this subsystem, and of course how they will work together. This could be a "Subsystem 1 is the Y system. This will make use of parts A, B, and C in order to do Z. We have chosen parts A, B, C, which will work together as follows … "
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> In here is where you want to bring in your prototypes, telling us why you have chosen those prototypes, what you have learned from them, and how that will impact the project as it moves forward into next semester. Don't forget to tie them all together, making it clear how these pieces of the puzzle lead to a finished product.
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> After going through your subsystems, recap the **overall design** for us. What have you selected as your design for this project. Give us the high level overview of your design, with the recap for each prototype too.

Close with a punch, remind us why we should believe that your team is going to accomplish the task at hand. More specifically, remind us that you, "Team ASDF, will do X for client N." Make this closing flow with reminding us how you'll accomplish "subsystem 1, 2, 3, using a design approach with parts A, B, C, etc." And of course, remind us how these all "Work together to perform function F." Your closing should be about as long as your **intro** and **why** slides combined. If you feel compelled to make your closing more than 45 seconds long, then you really need to think about what content should be earlier on in your presentation.

Budget does not need to be included in this presentation - it will be next semester in the first presentation (which is going to happen early in the semester!).

Deliverables

Live 8-10 minute presentation in-class. Slides in either ppt or pdf format must be finished and delivered via BBLearn by November 29. Presentations will begin November 30th in class, and will continue through the labs in the week that follows, including another round of presentations in class if needed. Order will be determined by Dr. Winfree; you should all be prepared to present November 30th, though only a few teams will be called to present then. Every team has to have the presentation submitted before this date - so there will be no changes to the presentations following November 29th at submission time. You will be graded by your GTAs or Dr. Winfree.

As a separate BBLearn submission, upload a PDF cover letter to Dr. Winfree and the GTAs stating your preference for presenting in class (Fridays) or in a lab period (Monday, Tuesday, or Thursday). Most might prefer to present in the lab periods, as there will be less attendees in the lab periods. The Friday class should be used for groups who are unable to attend a lab period in whole.

You must also present your slide deck to your client. This can be at any time by December 7th (that's the day after you have to complete your demonstration, consider doing them together). Your client will provide an evaluation on both your presentation and your demonstration. That evaluation will impact your grade.

No Google presentations, Prezis or other formats will be allowed, PPT and PDF only.