EECS 497: Major Design Projects

Lo-Fi Prototype

This assignment consists of 2 parts:

1. Lo-Fi Prototype Write-up
2. Lo-Fi Prototype Demo Video(s)

Assignment Background & Context

In industry, the concept of a [Minimum Viable Product (MVP)](#) has gained a lot of attention in recent years. The intent of the MVP is to provide early adopters a "sneak peek" of a product that is currently under active development in order to gather initial feedback that will drive future development. Much like the [paper prototype](#) that was discussed in lecture as a part of Rapid Contextual Design, the MVP is a crucial part of the final design process since it will guide the developers in creating a final product that more closely adheres to the needs of their users.

With that, we are defining a **lo-fi prototype** (LFP) to be an implementation of your project that lies somewhere between a paper (non-functional) prototype and a (functional) MVP. Note that our definition of a lo-fi prototype differs from that of a [UX low-fidelity prototype](#) in that it implies that our lo-fi prototype will contain at least some actual functionality. Since the projects in this course span a wide range of topics, we will not enforce much rigor on the functional implementation of your lo-fi prototype. However, we do encourage you to create something substantial since this will encourage you to begin the final implementation of your project sooner rather than later.

Lo-Fi Prototype Write-up

In this part of the assignment, you must write a one-page document detailing what parts of your overall project's requirements have been satisfied and/or addressed by your LFP (this may vary from only a small number of requirements to nearly all of them). In addition, briefly describe your plans on how you plan to transform your LFP into your final project. For example, what features still need to be implemented, what aspects of your project need further refinement, etc…

Lo-Fi Prototype Demo

This part of the assignment consists of your team presenting a mock demo of your LFP in a 5-minute or longer video(s) uploaded to YouTube. For this demo, at least one of your team

members, playing the role of your primary persona, must walk through several user scenarios of your LFP being used. If possible, it would be helpful to have additional people that are not members of your team do this as well...especially if they are closely related to your primary persona.

Your demo should focus on your project's primary functionality and leave the technical details for a later demo. Note, however, that a demo done *entirely* in an interactive interface design tool (such as Figma, InVision, Lucidchart, etc…) would not contain any actual functionality as it would essentially be a navigable storyboard. That said, you don't need to demo a great deal of actual functionality at this point and it is perfectly acceptable to demo your user scenarios using an interactive interface design tool exclusively. Simply showing that you have a basic landing/registration/login page for your project, maybe with a few other templated pieces, is enough. Alternatively, you could demonstrate some of the details regarding your project's backend by discussing any databases that you've implemented, algorithms that you've written, etc… The rest of the demo could then be done in a much less functional way (i.e. using Figma). The intent of this is to get you started in the initial development of your project since this process can sometimes take a great deal of effort if things don't go the way you expect and it's much better to have that happen earlier in the semester rather than later.

For the demo video(s), a great how-to for uploading a video to YouTube can be found at:

https://www.wikihow.com/Upload-a-Video-to-YouTube

You will need to provide a link to this content in a Canvas assignment. If you created one video, you will simply submit a link to that video. However, if you created multiple videos, you will need to create a Google Doc that contains individual links to each video and then submit a link to that Google Doc. This should hopefully be easier than having to combine multiple videos into a single video (although you are also welcome to do that if you would like).

Grading

This assignment is graded, as a team grade, utilizing the following criteria:

Criteria	Ratings			Pts
Lo-fi Prototype Write-up	30 pts Satisfactory	25.5 pts Needs Improvement	18 pts Unacceptable	30 pts

Total Points: 30

Criteria	Ratings			Pts
Lo-fi Prototype Demo	60 pts Satisfactory	51 pts Needs Improvement	36 pts Unacceptable	60 pts
Overall Effectiveness and Professionalism	10 pts Satisfactory	8.5 pts Needs Improvement	6 pts Unacceptable	10 pts

Total Points: 70