CS130: Project Planning Worksheet

Please fill out the following planning worksheet by answering the 9 questions asked below. In the appendix (pp. 3-7), we have given you a few examples of how these worksheets might be completed. Feel free to refer to them / use text from the samples to get ideas. Also feel free to do your own thing (don’t feel constrained by the sample projects)!

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| 1. What is the primary goal of your project? Note: you can implement a small part of a larger project as well. An website to share my baking recipes |
| 2. Will you be working alone or in a group (list team members if you’re working together)? |
| 3. What technologies will you be using to implement your project (just list them)?  (e.g. HTML, CSS, JavaScript, Node.js, MongoDB, web sockets, Google Maps, d3.js, Spotify’s API, etc.). Note: if you select something like ReactJS or another framework that we’re not specifically covering in the course, you are welcome to do so. However, we may not be able to support you technically if you run into trouble. Up to you.  HTML, CSS, JavaScript |
| 4. What resources / tutorials will you be using to help you? If you’re exploring an API, a library, or a framework, make sure that there are ample online resources / tutorials / documentation / sources of inspiration that can help you. Please list some links to relevant resources that you will draw upon as you pursue your project (based on your preliminary research). Tutorial 4 - CSS Grid and Media Queries  Tutorial 5 – manipulating the DOM on JavaScript |
| 5. What will you have made when you’re done?  Be specific (# of screens, description of basic functionality). You will break this down into steps below.  Screens of desktop, tablet, phone  JavaScript HTML Dom event: viewers can write review and submit |
| 6. What will your first deliverable be?  Create home page frame |
| 7. What will your second deliverable be?  Create my other pages |
| 8. What will your third deliverable be?  Correct Accessibility errors |
| 9. If you are working in a group, how will you divide up the work? |

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# Appendix: Sample Worksheets

## Sample 1: CTA Bus App

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| 1. What is the primary goal of your project? I want to make a real-time map of the CTA busses and their locations. Ideally, at some point in the future, this could turn into a user-friendly travel / transit app. |
| 2. Will you be working alone or in a group (list team members if you’re working together)?  I will be working alone. |
| 3. What technologies are you planning to explore (just list them)?   * HTML and CSS (to make a mobile responsive app) * JavaScript to pull data down from the web and build my screens * Google Maps API to make my map * The CTA Transit API to retrieve the real-time data |
| 4. What resources / tutorials will you be using to help you?   * [CTA API Docs](https://www.transitchicago.com/assets/1/6/cta_Bus_Tracker_API_Developer_Guide_and_Documentation_20160929.pdf) * [Google Maps Tutorial](https://developers.google.com/maps/documentation/javascript/tutorial) * Previous homework/labs and course materials |
| 5. What will you have made when you’re done?  I want three screens:   1. A screen where I can see a list of the bus routes 2. A screen where I can see a list of the bus stops for a particular route 3. A screen where I can see a map of where the bus is (for a particular route) in real time   The site will be responsive, and easy to navigate. I will link all of the screens together to create an integrated user experience. |
| 6. What will your first deliverable be?  For my first deliverable, I’m going to figure out how I can access location and bus route data from the CTA API. I will just simply print this data to a web page, based on a hard-coded bus route. Then, I will make a screen that lists all of the bus routes (so that I can eventually see location info for a specific bus). |
| 7. What will your second deliverable be?  For my second deliverable, I’m going to figure out how to display a map on a web page. Then I will try to display a marker on the map that corresponds to the bus’s location. |
| 8. What will your third deliverable be?  For the third deliverable, I will create a way to show all of the bus stops for a particular route. When the user clicks a route, it will show the bus stops. There will also be a back arrow showing that allows the user to go back and pick a different route. |
| 9. If you are working in a group, how will you divide up the work? N/A |

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## Sample 2: Web Portfolio

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| 1. What is the primary goal of your project? I want to make a portfolio website to showcase my interests, projects, and design/technical fluency. |
| 2. Will you be working alone or in a group (list team members if you’re working together)?  I will be working alone. |
| 3. What technologies are you planning to explore (just list them)?   * HTML and CSS (to make a mobile responsive app) * JavaScript to create some interactivity * Possibly a third-party stylesheet if I find one I like. I may also try using one of the style guides listed in HW2 (which are all open source). |
| 4. What resources / tutorials will you be using to help you?  I want to use some of the widgets and CSS templates from [Ant Design](https://ant.design/), and also use some ideas from the websites listed in HW2. |
| 5. What will you have made when you’re done (20 points)?  I \*think I will be able to have most of my portfolio done by the end of the quarter, which will include an “About Me” section, a “My Projects” section, and a “Project Detail” section. I’d like to add some visual flourishes via CSS animations and some JavaScript. I’m also interested in incorporating Google Analytics to see who is accessing my web page. |
| 6. What will your first deliverable be (3 points)?  For my first deliverable, I’m going to create a style guide and really think about fonts, values, colors, cards, etc., and how they communicate my brand. I’d also like to use this time to explore some CSS transitions and some animation effects (which I can include as part of my style guide). |
| 7. What will your second deliverable be (3 points)?  I will create the layout for my three pages (i.e. responsive boxes) — including a layout for desktop and mobile. I want to spend some time doing this to really use CSS Grid / Flexbox to get the layout right. |
| 8. What will your third deliverable be (3 points)?  For the third deliverable, I will add the content, fonts, colors, etc. to my portfolio. I will then work on adding some visual effects (custom graphics, animations, etc.) to add some flare to my portfolio. |
| 9. If you are working in a group, how will you divide up the work? N/A |

## Sample 3: Instagram Alternative

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| 1. What is the primary goal of your project? We want to engineer an Instagram-like app that explores both front-end and back-end ideas (including user accounts and media storage). |
| 2. Will you be working alone or in a group (list team members if you’re working together)?  We will be working on a team. Team members: Vikas, June, and Maria. |
| 3. What technologies are you planning to explore (just list them)?  All of them:   * HTML, CSS, and client-side JavaScript to post and display photos and comments. We might use React.js or Vue.js (not sure yet) * Heroku, Node.js, MongoDB + Mongoose, and Amazon S3 to store user-generated content and make that content accessible via HTTP requests. * Some kind of user authentication framework (still researching). |
| 4. What resources / tutorials will you be using to help you?   * We will be drawing from the lecture and course samples. * We’ll also be drawing from the [Amazon S3 code samples](https://docs.aws.amazon.com/sdk-for-javascript/v2/developer-guide/s3-node-examples.html). * We may also look into [Passport.js](http://www.passportjs.org/) * And finally, we’re going to be looking at Dribbble (e.g. <https://dribbble.com/>) and other UX websites to get some front-end inspiration. |
| 5. What will you have made when you’re done?  Backend:   * Around 3 API Endpoints:   + /:username/photos Allows any user to post and retrieve photos   + /:username/comments Allows any user to post comments on any photo in their feed   + /:username/feed A read-only endpoint that allows a user to view any photos for which they have access (the security will not be implemented as part of this class)...just a proof of concept * A way to log in * Support for media storage * A front-end prototype that will support the following:   + A way to log in   + A way to post photos   + A way to view all photos in your feed   + A way to post comments for any photo in your feed and have them display |
| 6. What will your first deliverable be?  For our first deliverable, we simply want to get everything set up so that the client and the back-end can communicate. This will involve:   1. Getting a single REST API endpoint setup using Node 2. Getting a single AJAX query to post and retrieve some data from the endpoint |
| 7. What will your second deliverable be?  For our second deliverable, we’re going to figure out how to post and store media (using S3). We are also going to figure out how to set up user authentication |
| 8. What will your third deliverable be?  For our third deliverable, we will finish implementing the three endpoints and corresponding screens. We will make the interface look nice. |
| 9. If you are working in a group, how will you divide up the work?   * June will take the lead on back-end web dev * Maria will take the lead on front-end web dev * Vikas will focus on UX/UI design, CSS, and making the screens mobile responsive   That said, we each want to understand each part of the stack, and so we may pair program and both participate in back-end and front-end. |

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