

CSCI 185: Project Planning Worksheet

Please fill out the following planning worksheet by answering the 8 questions asked below. In the appendix (pp. 3-10), I 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)!

1. Which option did you select?

2. What is the primary goal of your project?

Note: you can implement a small part of a larger project as well.

3. Will you be working alone or in a group (list team members if you're working together)?

4. What technologies will you be using to implement your project (just list them)?

(e.g. HTML, CSS, JavaScript, p5.js, any additional JavaScript libraries, any APIs, etc.)

5. 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).

6. 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.

7. Of the features you listed above, which of these will be accomplished by the midterm deliverable date on 4/19?

8. If you are working in a group, how will you divide up the work?

Appendix: Sample Project Proposals

Sample 1: Web Portfolio

1. Which option did you select?

Website option

2. What is the primary goal of your project?

I want to make a portfolio website to showcase my interests, projects, and design/technical fluency.

3. Will you be working alone or in a group (list team members if you're working together)?

I will be working alone.

4. 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.
- Possibly an HTML template if I find one I like

5. What resources / tutorials will you be using to help you?

- I want to use some of the widgets and CSS templates from [Ant Design](#), and also use some ideas from the course website.
- I might also use one of the templates here: <https://html5up.net/>

6. What will you have made when you're done?

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.

7. Of the features you listed above, which of these will be accomplished by the midterm deliverable date on 4/19?

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. I will also pick the colors, fonts, and icons that I want to use

8. If you are working in a group, how will you divide up the work?

N/A

Sample 2: Platform Game

1. What is the primary goal of your project?

Note: you can implement a small part of a larger project as well.

We plan to make a 2d game in order to show off our skills with animations, user interactions, and collision detection

2. Will you be working alone or in a group (list team members if you're working together)?

We will be working as a team (X & Y)

3. What technologies will you be using to implement your project (just list them)?

(e.g. HTML, CSS, JavaScript, p5.js, any additional JavaScript libraries, any APIs, etc.)
We will mainly be using JavaScript, p5.js

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).

We will be using a lot of the lessons we learned from the first project regarding creating a scene and user interactions. We also will be using the past exercises combined with information from sources like w3 schools and stack overflow. We are also going to heavily use p5.js

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.

We plan to create 1 level, a functional scoring system, a working gravity system, platforms, and multiple screens per level.

6. What will your first deliverable be?

Our first level will be the first deliverable will include the falling, play forming and collusion detection.

7. What will your final deliverable be?

our final will be the full level including all the features mentioned in 5

8. If you are working in a group, how will you divide up the work?

X will work on the collision detection and jumping functionality. Y will work on the game levels, tracking scores, and creating the character and landscape functions.

Sample 3: Club Website

1. What is the primary goal of your project?

To create a website explaining the opportunities and time commitments of the

Northwestern News Network, the campus broadcast TV station, to prospective students interested in joining the network in the fall.

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 (responsible mobile app)
 - CSS animations such as hover
 - Parallax scrolling
- JavaScript
 - Text animations
 - Student testimonials
 - Photo album
- Video and sound elements (we're a content-producing organization!)

4. What resources / tutorials will you be using to help you?

I want to use the text animations for [javascript that we saw in class](#), and I really like the hover quote option in this [testimonial tutorial](#). Since we're a video organization, I'm going to have lots of multimedia content to show (award winning work, special shows, etc.). I want my player to look beautiful and not like a normal YouTube embed. [This tutorial helps with that](#). I imagine that I'll be using a lot of [flexbox](#), and I need to brush up on that through our coursework. I really like [this](#) website design (even though it's a WordPress template). I hope to instill some of the design elements from this theme, but from scratch.

I plan to also use resources on the photo slideshow and media player from tutorial and homework, which I have previewed.

5. What will you have made when you're done?

I will have one main page for Northwestern News Network recruitment that aligns with NNN's visual brand identity. Though it will be only one page, I will anchor it with sections and treat each section as if it is its own page ([example](#)). The sections will be:

- Landing video/photo header
- About Us/NNN's Shows
 - Icons for each of NNN's Shows, examples of the show in embed player
- Time Commitment & Weekly Schedule
 - Calendar layout for what happens on each day
- Student Testimonials
 - Hover/Slideshow presentation of student leaders with quotes about what they love about the organization or why others should join
- FAQs
 - "Expand" and "Collapse" capabilities for text-based FAQs.
- Photo Album
 - Quick view of our facilities and students out in the field.

- Contact Us / Sign Up / Next Steps
 - Box so students can be added to the listserv or get more information on our information sessions, or how to get started

6. What will your first deliverable be?

I'm going to set the main page up and create the principles of the website on the page, including styles on fonts, colors, and presentation (scrolling speed, parallax effects, etc). I'll also create the "About Us" section, utilizing icons and boxes to explain NNN's five shows and the various ways students can get involved, with embeds of examples. I'll establish the anchored menu and the picture-based landing pad.

7. What will your final deliverable be?

My final deliverable will be completing an FAQ section, photo slideshow, and a "signup" page.

For the FAQ section, I will explore a card or envelope approach, where the user can open and close the cards to read the answer to various questions ("expand all" or "collapse all").

For the photo album, I will create a grid of photos showing the studio, control room, and students in the field. I haven't thought about the best layout for this yet.

I'll also implement some sort of "sign up" box, where individuals can enter their email. I'd love to have that integrated with a Google Form or spreadsheet so I can keep track of all of the entries and share it with the rest of the recruitment team.

I'll also use this deliverable to clean up any bugs with the overall view of the website (making sure the pages scroll together nicely, making sure all menu buttons work, etc.)

8. If you are working in a group, how will you divide up the work?

N/A

Sample 4: Travel Blog

1. What is the primary goal of your project?

As international students, we wanted to share our cultural identities with the students in this class. That's why we will create a travel blog showcasing our home countries (Greece & Mauritius) and countries we visited (Uganda, Iceland, Mexico).

2. Will you be working alone or in a group (list team members if you're working together)?

Ella & Daren

3. What technologies will you be using to implement your project (just list them)?

HTML, CSS, JavaScript, Google Maps, Spotify (or embed music on the various country webpages)

4. What resources / tutorials will you be using to help you?

-Previous homework/labs and course materials, especially the files from lectures 7 & 8

5. What will you have made when you're done?

One main page with our bios and a navigation menu with the countries we will be presenting.

One screen for each country - so a total of 5 webpages - which will have a flexbox/grid with pictures with titles of experiences worth doing in each of the countries. We will also integrate music into each of those web pages to show a bit more about each region's music culture.

6. What will your first deliverable be?

A rough draft of the skeleton of our website, with working buttons to main page and each country's pages. Adding css and pictures onto the main page and the country's pages.

7. What will your final deliverable be?

Adding music, text description, and working on accessibility issues when it comes to our website.

8. If you are working in a group, how will you divide up the work?

we will split the work for deliverable 1 (layout of the whole website) together, splitting the html and css work evenly between ourselves

Ella will work on the Greece and Iceland pages. Daren will work on Mauritius and Uganda pages. Both will work on Mexico pages.

Ella will focus on color coding and css from an aesthetics perspective, Daren will focus on html accessibility and music.

Sample 5: Food Blog

1. What is the primary goal of your project?

Note: you can implement a small part of a larger project as well.

Food Blog

2. Will you be working alone or in a group (list team members if you're working together)?

We will be working as a team of three!

Carina, Lexie and Lydia

2. 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

Tutorial 6 - functions and loops

For the content of the website, we will borrow some layout/ design ideas from the following website sources:

https://www.nytimes.com/subscription/cooking.html?campaignId=6W9R&ds_c=7170000067126156&gclid=CjwKCAjwjtOTBhAvEiwASG4bCEfr6aAKuztGpty0vMe34tRBW6Gdzxi5v0NE5CvZ51dPgJst_DmAcBoCZIEQAvD_BwE&gclsrc=aw.ds

<https://www.bakingmad.com>

<https://pinchofyum.com/>

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

We would like to present 3 “types” of Screens

1. Photo gallery
2. Sample recipe booklet
3. Interactive shopping list

6. What will your first deliverable be?

Our first deliverable will be curating a gallery of famous desserts/dessert shops from major cities in the United States. Or maybe iconic dishes from different countries/cultures. We will also present a series of tested recipes grouped by difficulty level

7. What will your final deliverable be?

Interactive shopping list where users can select a recipe and add certain ingredients from the recipe to their shopping cart

8. If you are working in a group, how will you divide up the work?

We will collaborate as a group to design and construct the basic layout of the website.

To ensure that all of us have the opportunity to learn different aspects of web design, we will each be in charge of three recipe “packages”, consisting of an image, a shopping list and the steps.

Sample 6: CTA Bus App

1. What is the primary goal of your project?

I want to make a real-time map of the CTA buses 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](#)
- [Google Maps 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 final deliverable be?

For my second deliverable, I'm going to figure out how to display a map on a web page, and 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.

8. If you are working in a group, how will you divide up the work?

N/A