# The weeks ahead

* Week 1:
  + Find a team, identify a specific time you will meet. Start meeting THE FIRST WEEK of class!!
  + Get your GitHub repo and Trello project set up!!
    - One person in the team should copy the Trello project and add everyone to it.
    - One person in the team should clone the SleepOutside repo and add everyone to it.
    - One Person should set up Netlify and religiously manage it.
  + When I see your team is setup THEN I will add you to an MS Teams group
  + Meet with your team!
  + There is one Individual Trello card to do for this week.
    - Here is a hint for week 1: What kind of JavaScript object should be used to hold a shopping cart? Is that what is stored in LocalStorage? Maybe that is the root of the problem.
* Weeks 2 – 4:
  + Read the material,
  + Meet twice weekly with your team,
  + Do the **team** Trello card,
  + Individual Trello cards
    - Do the **one required individual Trello card** and
    - **find an interesting 2nd individual card** to do.
  + Do the weekly reporting assignments and submissions.
* Weeks 5 – 7 build an **individual** application that sums up what you have learned. Here is the rubric I use for that final submission.

**Meaningful usage of the following topics**

25 pts JavaScript

I expect some honest logic going on here. Validating the screen data, looping through an array of JSON data to display to the screen, creating and using events, changing element styles with JS, changing element classes to use different CSS rules.

25 pts Third party APIs – you need to have two different ones!

There are MANY great APIs for weather, travel, sports, NASA, movies, music, Anime, search, GPS, maps. Check out <https://rapidapi.com/marketplace>. Your API should return a good rich JSON result set. Something with an array you can iterate through. Weather for the next 8 days, 10 matching movies, song list for an artist, books from an author, pictures from a Mars rover, sports scores, news stories, products for sale. BTW, if you do this you will also get the points for JSON and it is impossible to do a good job here without some serious JavaScript. APIs+JavaScript+JSON and you already have 65% of the points!!

15 pts JSON

JSON is the *lingua franca* of our time. Your job interviews will expect you to know it.

10 pts CSS

Use Transforms to round the edges of your input fields, add shadows. Use Transitions to enlarge an input field on focus, and shrink it on blur, wiggle an input field when bad data is entered. Add borders. Don’t go overboard. CSS should subtly add style to a page, not whack you over the head.

10 pts Events

Use events to enhance the user experience. React to a button click. Initialized the page with data once the onload event triggers. CSS pseudo-state-selectors (hover, focus, checked, after, before) I’ll recognize these as events as well.

5 pts LocalStorage

By design it is local to current device. It is not available as you move around from phone, to tablet, to laptop. But it is nice to know how to implement. It can add value to an app to remember the user from their last visit.

Notice that 65% of the points come from three topics, API + JSON + JavaScript. If you build your application around a good third-party API you can’t help but get points for all three of these topics. There are APIs for weather, sports, news, movies, books, … and the list goes on. Start thinking about it now. I will share many examples. And you will see them in my office hours!

**Grading for the class**

**Preparation Learning Activities**10% of Total

* W01 - W05 Prepare: Learning Activities

**Team Activities**  10% of Total

* W01 Setup Activity: Guided Team Project
* W02 Team Activity: Dynamic Product Details Page
* W03 Team Activity: Dynamic Header and Footer
* W04 Team Activity: Checkout

**Project Artifacts**.        20% of Total

* W01 Individual Activity: Add Item to Cart
* W02 Individual Activity: Dynamic Product List
* W02 Project: Report on Tasks
* W02 Project: Status Update
* W03 Individual Activity: Expand Inventory
* W03 Project: Report on Tasks
* W03 Project: 60-second Status Update
* W03 Final Project: Brainstorm
* W04 Individual Activity: Error Checking and Validation
* W04 Project: Report on Tasks
* W04 Final Project: Application Proposal
* W04 Project: 60-second Status Update
* W05 Final Project: Report on Tasks
* W05 Final Project: 60-Second Status Update
* W06 Final Project: Report on Tasks
* W06 Final Project: 60-Second Status Update

**Course Outcome Demonstration.**  **60% of Total**

* W07 Final Project: Submission
  + Project 80%
  + Personal Development 20%