# Week 3 – Let’s start thinking about projects!

* If you read this please leave a comment about something that your learned about the course you did not know before. ☺
* Questions and Answers
* What’s in store for this week?
* Office hours this week
* Trello Cards
* Notes
* CORS
* Fetch Examples
* Project Ideas
* Tutoring **Don’t forget to take advantage of it**

Stop a second. Let me get you attention here. You are doing a great thing! You will be changing not just your life with this degree, but your children and grandchildren’s lives will be improved because of the example you are establishing of advancing your education. With better education, generally comes a better job, better job satisfaction, which means you enjoy your life more. Your ability to bless others is increased. You will be more able to give of your time and talents to your family and ward and friends! Go you!!!

# Questions and Answers

Q Is the Final Project a team or an **individual** project?

A DEFINITELY just an individual project. You will work on it weeks 5-7

Q Can I use React, Vue and other cool frameworks for the final app?

A No, next question

Q Really? But I like React

A I like Java, but this is not a Java class or a React class. See first answer. ☺

Q Can VS Code do everything I need when it comes to GitHub?

A Yes, you can thank Microsoft for purchasing GitHub. It gives them a huge incentive to have great integration with their tools. So, you CAN do everything. But sometimes it is easier to drop into the command line. Switching back and forth is not going to cause a problem.

Q Where can I get great ideas for an application

A **Come to the Office Hour** this week. RapidAPI is one place to checkout. Do NOT ask ChatGPT for ideas. It will give you ideas but none that are appropriate for this class. Believe me other students have tried and they won’t work ☺

# What is in store for this week?

Here is the reading assignment that you will find in Canvas

1. [AJAX and the Fetch API](https://byui-cse.github.io/wdd330-ww-course/week03/prepare-ajax-fetch.html)
2. [HTML Forms and Form Processing](https://byui-cse.github.io/wdd330-ww-course/week03/prepare-forms.html)
3. [FormData Objects](https://byui-cse.github.io/wdd330-ww-course/week03/prepare-formdata-objects.html)

AND You need to start thinking about your project right now. Find the

**W03: Final Project - Brainstorm**

Assignment and start thinking about ideas for a final project. I ALWAYS share ideas and sources for ideas in the weekly office hours. Come by!!!!

Your final project is graded as follows

Java Script 25 points

API 20 points

JSON 10 points

CSS 10 points

Events 10 points

Local Storage 5 points

The key to a good grade is to find an interesting API. The key to finding an interesting API is to come to the office hours (or watch the recording). Every week in the office hours I show simple examples of APIs. Without a good API your project will not succeed. The API requires you to use JavaScript and JSON. Add those points together 25% + 20% + 10% you get 55% of the grade for the final project. 60% of your class grade comes from the Final Project which means these three topics account a significant amount of your grade for the class.

When submitting your **four** ideas they MUST include **TWO** good APIs. A good API will require some info from the user (movie name, song lyrics, artist, city) and the API must return an array of information with at least 10-15 pieces of information. This is not too hard if you come to the office hours and watch me demonstrate my examples.

# Office Hours and Topics

Please come with your questions!

[https://byupw.zoom.us/my/**gtjames**](https://byupw.zoom.us/my/gtjames)

**Use this link to make sure you have the correct time for you time zone**

[**https://www.timeanddate.com/worldclock/converter.html?iso=20250202T030000&p1=tz\_ct&p2=tz\_mt&p3=1440**](https://www.timeanddate.com/worldclock/converter.html?iso=20250202T030000&p1=tz_ct&p2=tz_mt&p3=1440)

Tuesday 11:30 AM **Mountain 17:30 UTC**  
Tuesday 9:00 PM **Mountain 03:00 UTC**

* APIs and fetch
* Where to find interesting APIs
* RapidAPI
* Project Ideas!!!!

# Trello Cards

# Quick Q&A on the Trello board assignments

Each column in the Trello board is NOT quite a 2-week Sprint but close.

This is how the weeks break down for the TEAM cards

|  |  |  |
| --- | --- | --- |
| Week | Canvas Assignment Title | Assigned TEAM Trello card |
| Week 1 | W01 Setup Activity: Guided Team Project | No Team Trello card this week |
|  |  |  |
| Week 2 | W02 Team Activity: Dynamic Product Details Page | W02: Dynamic product detail pages  Then choose one more on your own |
|  |  |  |
| Week 3  This week | W03 Team Activity: Dynamic Header and Footer | W03: Dynamic header and footer  Then choose one more on your own |
|  |  |  |
| Week 4 | W04 Individual Activity: Error Checking and Validation | W04: Checkout  Then choose one more on your own |

From Canvas activity: “***Individual/Team Activity: Setup Project***”

There are some tasks marked "Team Activity W0\_". Each week the team should complete that activity together.

There are some tasks marked "Individual Activity W0\_". Each week you should complete that specific task. Do it mostly on your own. But feel free to compare notes after you have labored on it.

**Then** you individually will choose one additional card each week. These should be done individually as much as possible but remember that you have a team to help you if you get stuck on a particular task.

# Do we need to complete all Trello cards?

No. You do not lose points for not getting them all done. If you do not finish, make sure to look at the instructor solution to see what the completed code looks like. SleepOutside served as a platform to learn the ideas to be used in the Final Project. You are not graded on finishing all the cards.

# CORS

Here is a nice extensive article on CORS.

<https://www.moesif.com/blog/technical/cors/Authoritative-Guide-to-CORS-Cross-Origin-Resource-Sharing-for-REST-APIs/>

As we start using third-party APIs CORS will be an issue occasionally.

# Fetch Examples

Over the last 10 years I have taught the class I have developed a number many of examples using fun APIs. If you come to my office hours I can demonstrate them. I have hidden the keys so they are not open to the general public. But you can see the code.

These are all Single Page Apps. Some have asked about SPAs. They are simply one HTML page that uses JavaScript to make a ‘fetch’ call to a third-party API to return data and display on the current page. It is not necessary to go from page to page to page. The HTML is created dynamically and presented in the original page. This will save making another request to the server to retrieve a new HTML document. It is faster and gives the user a better experience.

This is the link to my GitHub repo.

<https://github.com/gtjames/FetchExamples>

If you want to experiment with the code, you may clone it. Most of the APIs require registration to use the APIs. You should **get your own** API token and replace mine with yours. It will be a good exercise for you.

# Project Ideas

Holy cow!! This is week three of the semester!!!! That means you really need to be thinking seriously about a project idea. We will talk about that in this week’s office hours. BE THERE if you want to get your questions answered. Here are some examples from previous semesters. Most of the links work. A few might be stale.

|  |  |  |
| --- | --- | --- |
| Type of Project | URL | Author |
| Mars Rover | <https://aaroneiche.github.io/cit261/rover.html> | Aaron Eicke |
| Menus | <https://angelabrunst.github.io/WDD330/src/index.html> | Angela Brunst |
| Stocks | <https://begrimshaw.github.io/WDD330/StockAPI/index.html> | Brennen Grimshaw |
| Art Works | <https://aleshana.github.io/WDD-330-Portfolio/Final2/index.html> | Alesha McCown |
| Menus | <https://wallylime.github.io/web_frontend_development_2/final_project/index.html> | Emily Wall |
| Poetry | <https://eolsenbyui.github.io/wdd330/week14/final/> | Eugene Olsen |
| Recipes | [https://war21001.github.io/WDD-330/Final/index.html#](https://war21001.github.io/WDD-330/Final/index.html) | Lisa Ward |

|  |  |  |
| --- | --- | --- |
| **Topic** | **Student** | **Link** |
| Airport Info | [Sayri Quinchiguango de la Torre](https://byui.instructure.com/courses/144138/gradebook/speed_grader?assignment_id=6055427&student_id=250879#nogo) | <https://sayyr1.github.io/WDD-330/Final%20Project/index.html> |
| APOD | NAI SHIH CHEN | <https://naishihchen.github.io/WDD330Portfolio/FinalProject/APODCards.html> |
| Aviation Weather | Hernan Yupanqui Yupanqui Prieto | <https://hernanyupanqui13.github.io/wdd330_hernan/final_project/index.html> |
| Baseball | Eli Bear | <https://eli-b-washington.github.io/wd330/week13/Final_Project/final_project.html> |
| Bitcoin | Autin Earl | [https://austin-earl-private.github.io/pages/project01/index.html#](https://austin-earl-private.github.io/pages/project01/index.html) |
| Boating | Aaron Erbe | https://aaronerbe.github.io/marinas/index.html |
| Books | Elisangela Alves | [https://lisbyui.github.io/WDD-330/books/index.html (Links to an external site.)](https://lisbyui.github.io/WDD-330/books/index.html) |
| Character Generation | Emily Patrick | <https://emilytheapple.github.io/> |
| Dogs | Ben Smith | [https://main--timely-bubblegum-958792.netlify.app](https://main--timely-bubblegum-958792.netlify.app/) |
| Heros | Julien Connault | <https://bekiboo.github.io/past-projects/Team-Hero/index.html> |
| Learn Spanish | Trenton South | <http://www.trentonsouth.com/wdd330/project/> |
| Mars Rover | Aaron Eicke | <https://aaroneiche.github.io/cit261/rover.html> |
| Marvel | Daniel Miranda | <https://w2th.github.io/wdd330-portfolio/MarvelAPI/index.html?name=iron+man> |
| Movie Reviews | Dylan Waren | <https://ogd95.github.io/WDD_330/searchCritic.html> |
| Movies | Pablo Acuna | <https://acuna-pablo.github.io/PA.io-WDD330/Final%20Project/initial.html> |
| Movies | Modesto Imayaho | <https://couchpotatodev.github.io/portfolios/project/index.html> |
| Movies | Kate Lewis | <https://lewis-kate.github.io/WDD330/final/index.html> |
| Movies | Eduardo Meno | <https://mondr4g.github.io/WDD330-Portfolio/movie-app/index.html> |

# Get everything you can out of your BYU Idaho education

Here are links to great devotional talks. I know you will enjoy them. Try one each week.

1. [BYU-Pathway Devotionals](https://www.byupathway.edu/speeches)
2. [Ensign College Devotionals](https://www.ensign.edu/devotionals)
3. [BYU-Idaho Devotionals](https://www.byui.edu/devotionals)