Basic UX/UI Design... and Kanban Board Creation

Basic web design and creating a Kanban board with stories & tasks

Design ...your Web Application

User Experience (UX)

- Keep it INTUITIVE
 - Navigation should be obvious
- Make it consistent with industry standards
 - Follow the "standard" for interactions a.k.a clicking a hamburger icon () should open the navigation and arrows (<,>) should open drawers.
 - o Keep interactions the same across the application
- Allow users to make errors by handling errors gracefully a.k.a form validation that askes users to correct inputs that are not correct
- Resources
 - https://usabilla.com/blog/fundamental-concepts-ux/
 - https://careerfoundry.com/en/blog/ux-design/5-key-principles-for-new-ux-designers/
 - https://www.mockplus.com/blog/post/interaction-design-principles

Design ...your Web Application

User Interface (UI)

Responsive Design or Mobile First layout

- Rearrange (stack) elements on narrow screen
- Hide and/or show different elements based on screen size
- Adjust font sizes
- Resources
 - https://darwindigital.com/mobile-first-versus-responsive-web-design/
 - https://www.smashingmagazine.com/2017/02/mobile-first-is-just-not-good-enough-meet-journey-driven-design/

Design ...your Web Application

User Interface (UI)

Fonts & Icons

- Find alternate fonts for logos & headers
- Use icons where appropriate
- Resources
 - o https://fonts.google.com/
 - https://material.io/tools/icon
 - https://fontawesome.com/

Images

- Graphics need to be your originals, Creative Commons or Public Domain
- Resources
 - o https://www.pexels.com/
 - https://unsplash.com/creative-commons-images

Color & Contrast

- Pick a color palette
- · Keep accessibility in mind
 - Visually impaired & colorblind
- Resources
 - https://coolors.co
 - http://paletton.com
 - https://www.colorspire.com

Navigation

- Again... it should be Intuitive
- Animations (Only if times allows at the end)
- Resources
 - https://css-tricks.com/video-screencasts/97-intro-to-css-animations/

Define ...your Timeline

How much time do you have to complete your project?

- Estimate the amount of time on a daily/weekly basis
 - Approximately 2 hours/day, 5 days/week for 4 weeks = 40 hours
- This number is used to estimate completion of the project on time.
- Plan to complete your project including testing the days before demo day so you can fine tune & polish the leeway, plus it gives you some padding on your estimates.

Create ...your Kanban Board

Create an account on trello.com

- Create a board on Trello
- Name the board something meaningful regarding your project
- Share your board with teachers and mentors
- Create swim lanes
 - Planning / Research
 - All items that need to be planned
 - Things that need to be learned / researched
 - Back log
 - Brainstorm and story writing
 - Ready for development
 - Story writing completed, full details and acceptance criteria
 - In Progress/Development
 - Stories currently being worked (should be limited to 1 or 2)
 - Testing
 - Your testing processes for each story
 - User testing for each story or iteration
 - Buggs
 - For things that broke and need to be fixed
 - Completed / "Done-Done"
- Create stories
 - Steps for stories:
 - Title -- A brief summary of changes
 - Define definition of Done -- "As a [persona], I [want to], [so that]."
 - Prioritize
 - Estimate
 - Minimum Viable Product or Optional
 - Stories are NOT tasks, they are definition of a feature
 - You should task out each story, that become development "chunks"

Resources to create...your Stories

- Atlassian tutorial
 - https://www.atlassian.com/agile/project-management/user-stories
- "How To Write User Stories", by Robert Smith.
 - Part 1: https://www.youtube.com/watch?v=eYZ8vBXL1kk
 - Part 2: https://www.youtube.com/watch?v= iodOh-QTww
- Example of thought process for a simple task such as create a PBJ Sandwich
 - https://youtu.be/5X58UgQpGyQ

Task out ...your Stories

Create tasks

Steps for tasks:

- Define tasks required to fulfill the definition of done
- Prioritize
- Estimate/Time Box
 - o Keep in mind your total time line estimate. Plan to finish a week early.
 - For new tasks, multiply estimate by 1.5 or 2
 - o Time boxing, determine the max time to spend on an optional feature
 - Once that time is met, stop work on it and reevaluate
 - Resource
 - https://www.agilealliance.org/glossary/timebox

Develop ...your Web Application

The FUN part, and why you are here.

- Update your Kanban board as you start and complete stories and tasks.
- You and others should be able to gauge your completeness by the board status.

Test ...your Web Application

Test, test and more testing

What should you be testing?

- Make sure it behaves correctly.
- Make sure it looks correct.

How should you test?

- Test as stories are completed
- Test on many devices and resolutions
- Test in multiple web browsers
 - o Chrome, Safari, Microsoft Edge, if suicidal Internet Explorer
- Have others test
 - You should observe them testing and listen to their feedback
 - o Have teacher, mentors, peers, friend (smart & dumb), your kids, your parents

Update ...Documentation

Document the entire process of design, development and testing.

- Reference your decisions when questions arise.
- Define your Time line
- Create your Kanban board
- The documentation will be included in your portfolio, so make it look nice.

Homework

Required to complete your homework!

- Document your decisions
 - o Select fonts, icons, images, color scheme
- Define your Time line
- Create your Kanban board
 - Create Stories
 - Create task list for story
 - Estimate effort (in hours)
- Start Development

Due next week, share the link to the Kanban board with all details in stories and tasks