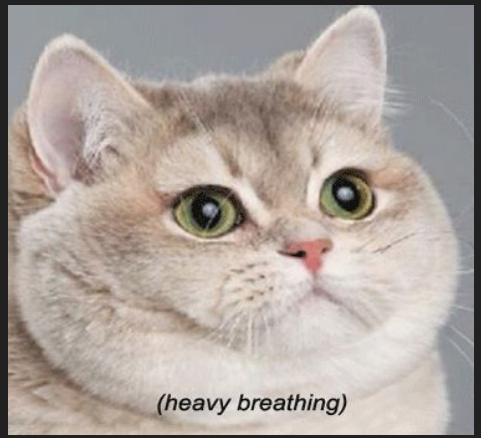
Midterm Project Kick-off



Decide on the Project

What do I want to learn by doing this project?

Pick a Project

- Wiki Map
- Quiz App
- Story Creator
- Decision Maker
- PasswordKeepR
- Smart Todo List
- Resource Wall
- Buy/Sell Listing Website
- Schoodle
- Food Pick-up Ordering

Questions You Should be Asking Yourself

- Do we want to learn about external libraries and/or APIs ?
- Do we want to make our app front end heavy ?
- Do we want to make our app back end heavy ?
- Do we want to do more server side or client side rendering?

Where Do We Go From Here?

DATA

Everything Begins with Data

Q: What is the data you can access or get?

(User inputted, seeded in, API that gives you data, etc)

Q: Can we correlate that data to something else?

(people that bought product X also bought product Y)

Q: How can we pivot that data to add value to end user?

(single people in the world VS single people in your area)

User Stories

What is a user Story?

“A **user story** is an informal, general explanation of a software feature written from the perspective of the end **user** or customer. The purpose of a **user story** is to articulate how a piece of work will deliver a particular value back to the customer.”
- Atlassian

Example of User Story

As a _____ ,
I want to _____ ,
Because _____ .

Another Example of a User Story

As a _____ ,
I should be able to_____ ,
Because _____ .

User Scenario

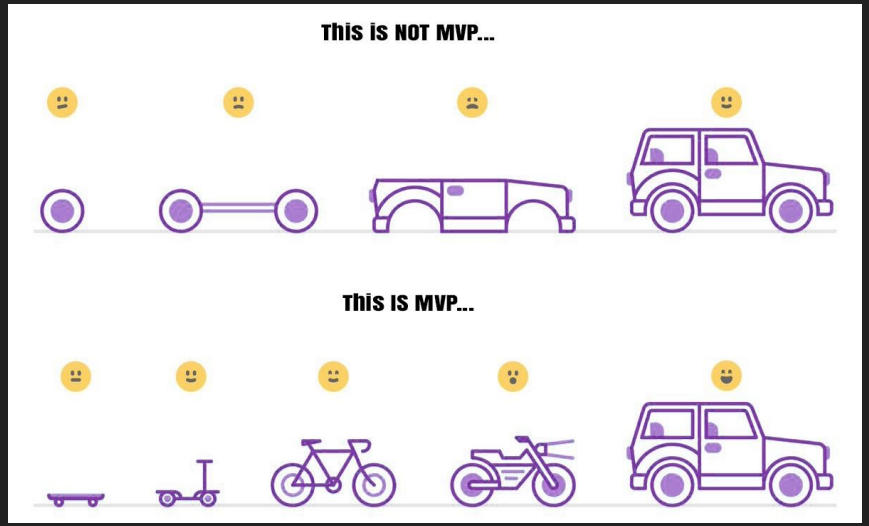
Given _____ ,
When _____ ,
Then _____ .

User Story and User Scenario

Title	User should be able to save a story
Traditional User Story	As a User I want to save a story I'm reading Because I found it useful
User Scenario	Given that I'm reading a story When I tap the icon to save a story Then save it to my "Saved Stories"

Once you written all of your user stories...

Decide which features will be part of MVP



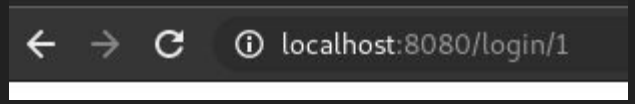
A minimum viable product (**MVP**) is a version of a product with just enough features to be usable by early customers who can then provide feedback for future product development.

If you are not going to demo it… DON’T BUILD IT

- FAQ/About/Teams Pages
- Sign Up and/or Login Pages (CONTROVERSIAL)

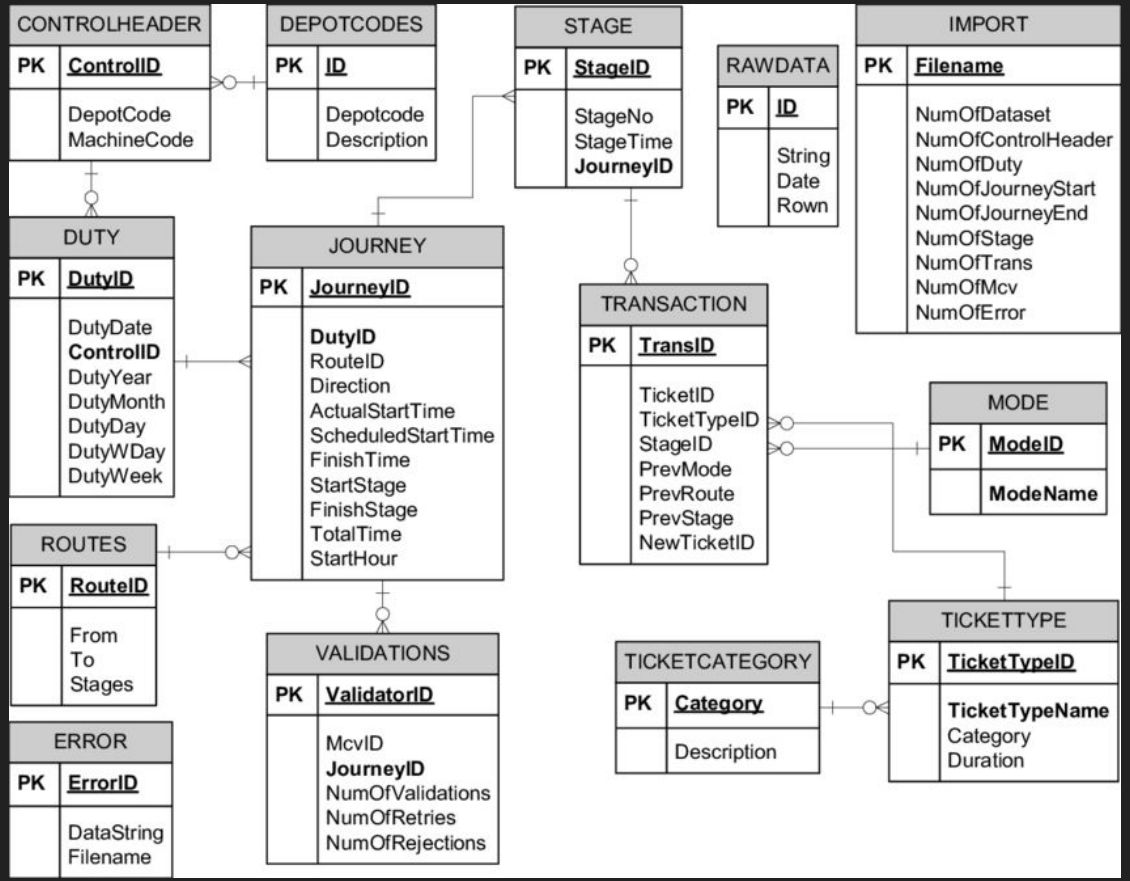
Login route for development

```
app.get("/login/:id", (req, res) => {
  req.session.user_id = req.params.id;
  res.redirect("/");
});
```



Logged in as user 1

ERD


CONTROLHEADER
PK ControlID
DepotCode
MachineCode
DEPOTCODES
PK ID
Depotcode
Description
STAGE
PK StageID
StageNo
StageTime
JourneyID
RAWDATA
PK ID
String
Date
Rown
IMPORT
PK Filename
NumOfDataset
NumOfControlHeader
NumOfDuty
NumOfJourneyStart
NumOfJourneyEnd
NumOfStage
NumOfTrans
NumOfMcv
NumOfError
DUTY
PK DutyID
DutyDate
ControlID
DutyYear
DutyMonth
DutyDay
DutyWDay
DutyWeek
JOURNEY
PK JourneyID
DutyID
RouteID
Direction
ActualStartTime
ScheduledStartTime
FinishTime
StartStage
FinishStage
TotalTime
StartHour
TRANSACTION
PK TransID
TicketID
TicketTypeID
StageID
PrevMode
PrevRoute
PrevStage
NewTicketID
MODE
PK ModeID
ModeName
ROUTES
PK RouteID
From
To
Stages
VALIDATIONS
PK ValidatorID
McvID
JourneyID
NumOfValidations
NumOfRetries
NumOfRejections
TICKETCATEGORY
PK Category
Description
TICKETTYPE
PK TicketTypeID
TicketTypeName
Category
Duration
ERROR
PK ErrorID
DataString
Filename

Tables are NOUNS

Title

User should be able to save a story

Traditional User Story

As a User
I want to save a story I'm reading
Because I found it useful

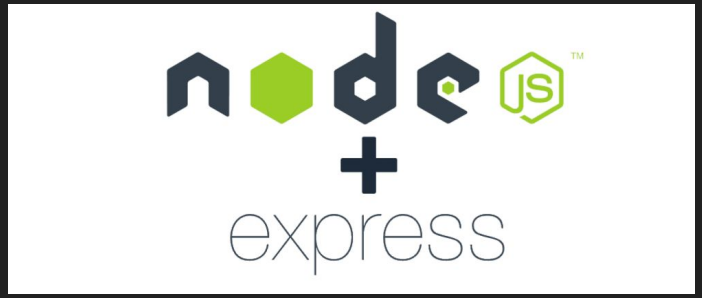
favorites?

User Scenario

Given that I'm reading a story
When I tap the icon to save a story
Then save it to my "Saved Stories"

TECH CHOICES

Framework, Languages, Dbs (you got no choice this time…)



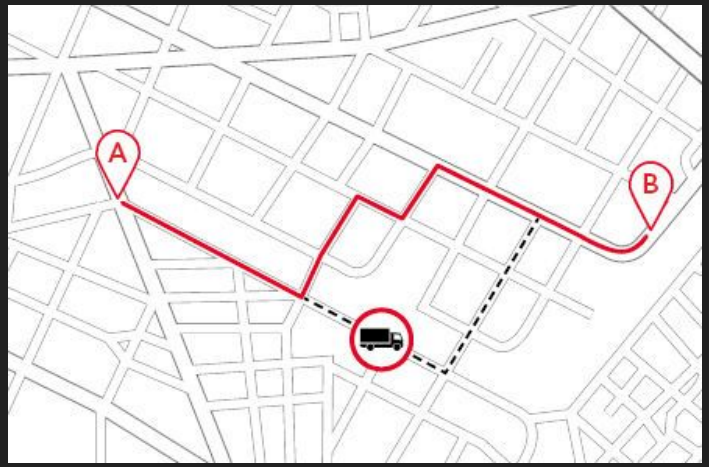
```
      posts GET    /posts(.:format)             posts#index
            POST   /posts(.:format)             posts#create
   new_post GET    /posts/new(.:format)         posts#new
  edit_post GET    /posts/:id/edit(.:format)    posts#edit
       post GET    /posts/:id(.:format)         posts#show
            PATCH  /posts/:id(.:format)         posts#update
            PUT    /posts/:id(.:format)         posts#update
            DELETE /posts/:id(.:format)         posts#destroy
```

ROUTES

Planning Your Routes

Consider:

- GET vs POST vs PUT/PATCH vs DELETE
- Params in URLS vs sending info within the request
- RESTful conventions
- if tables are nouns, routes are verbs



Title

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Traditional User Story

As a User
I want to save a story I'm reading
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User Scenario

Given that I'm reading a story
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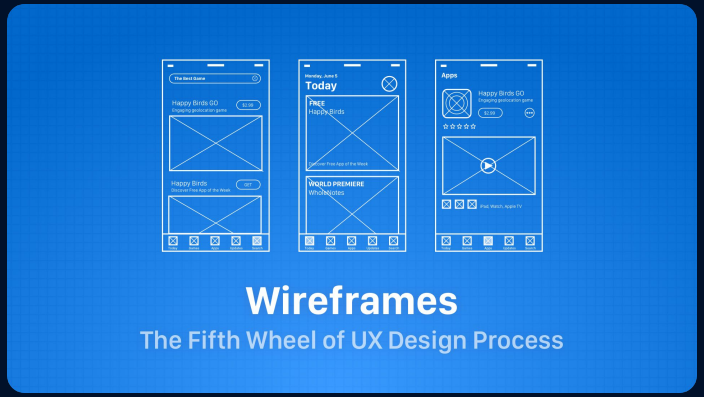
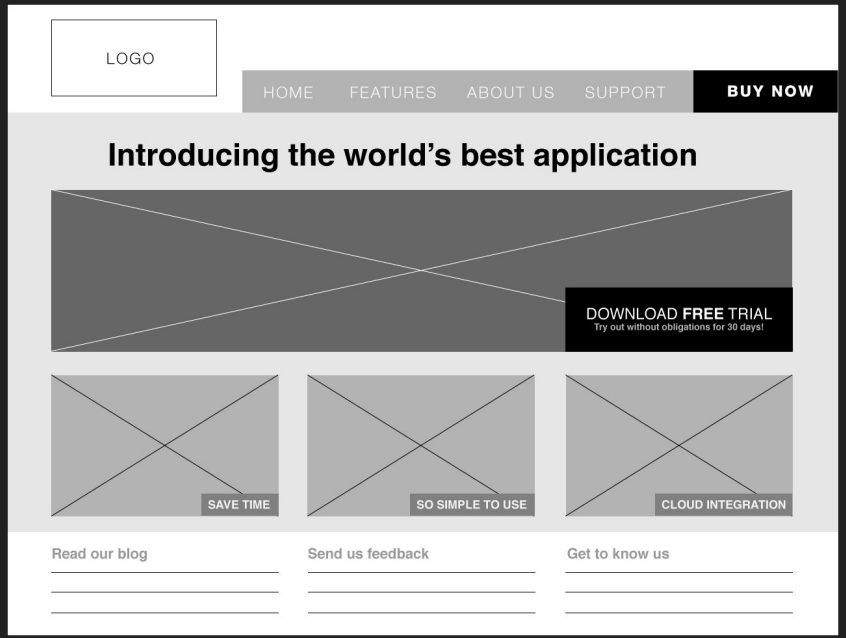
GET	/stories	→ view all stories on the list
GET	/stories/:id	→ view a specific story
POST	/favorites/:story_id	→ save specific story (user_id in session)
GET	/favorites/	→ see all favorite stories by the logged user



WIREFRAMES

Wireframes

“Wireframes are simple black and white layouts that outline the specific size and placement of page elements, site features, conversion areas and navigation for your **website**. They are devoid of color, font choices, logos or any real design elements that take away from purely focusing on a site's structure.” -OrbitMedia



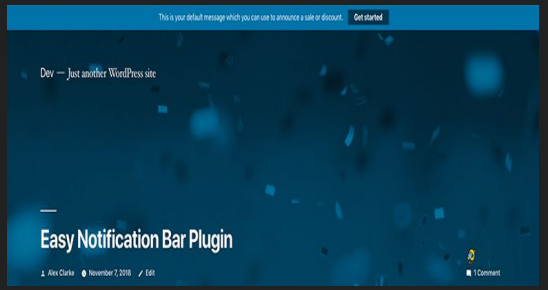
We can’t read your mind....

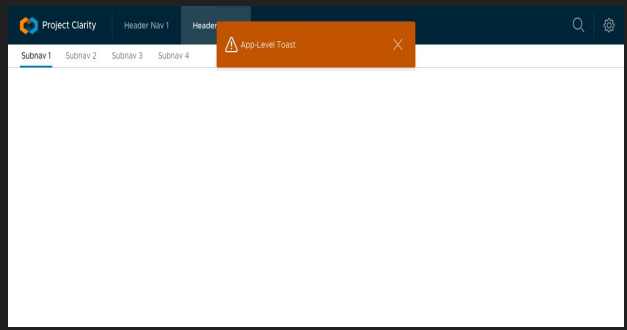
NOTIFICATIONS

Image

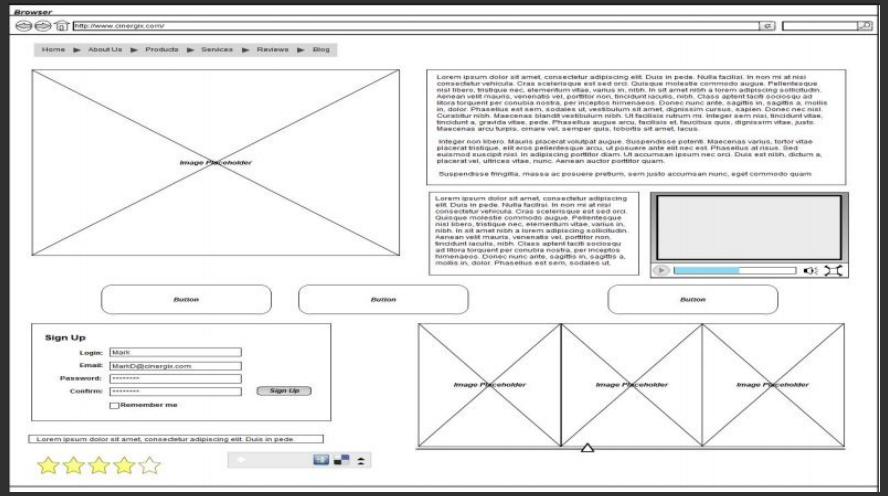
Title

text text text text text text
text text text text text text
text text text text text text





Not Everything needs to be on the same page!!

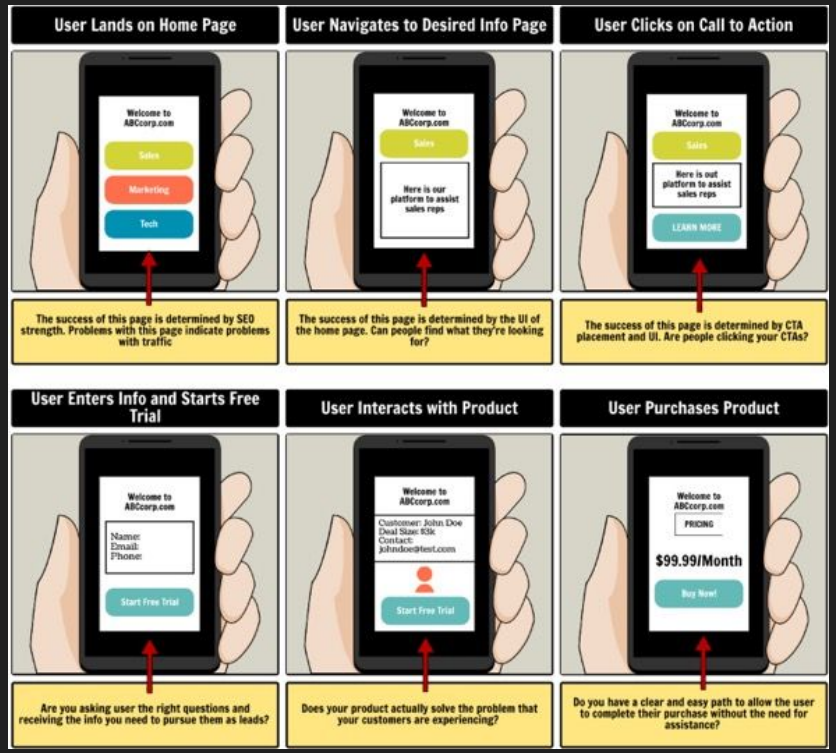


StoryBoarding

“A **storyboard** is a sequence of drawings that represent the shots planned for a video production. ... The **storyboard** is a very **important** part of the pre-production process because it clearly conveys how the story will flow, as you can see how your shots work together.” - ElementalMedia.co.uk

This works in web design very well because it will tell you if your layout actually makes sense.

(Don’t pull a GoT S8)



Wireframing for the web is the same

You want to set up a timeline of your user workflow. Figure out what the ideal path is for users to take when going through the features you're building.

Guess where you can get that path from?

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Traditional User Story	As a User I want to save a story I’m reading Because I found it useful
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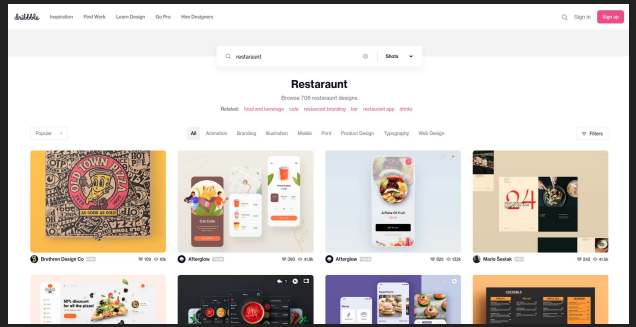
DESIGN

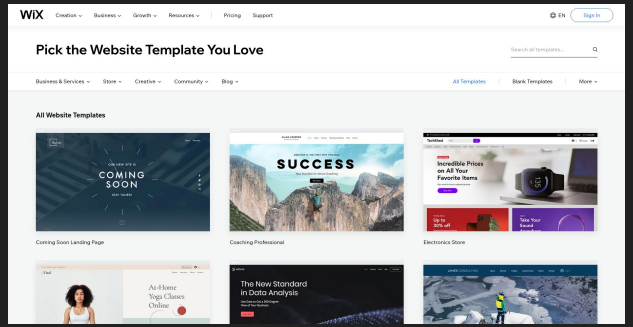
Design 100% matters but….

You came to bootcamp to learn how to be developers, not designers.
Use resources like:

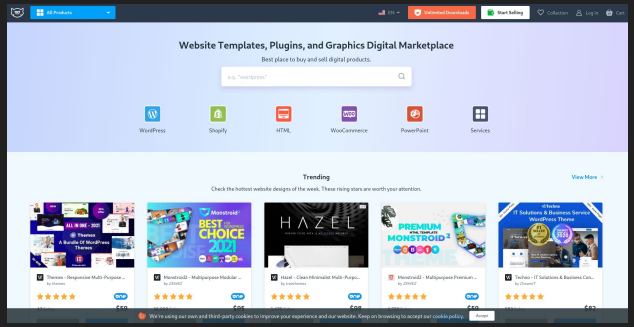
Dribbble



Wix

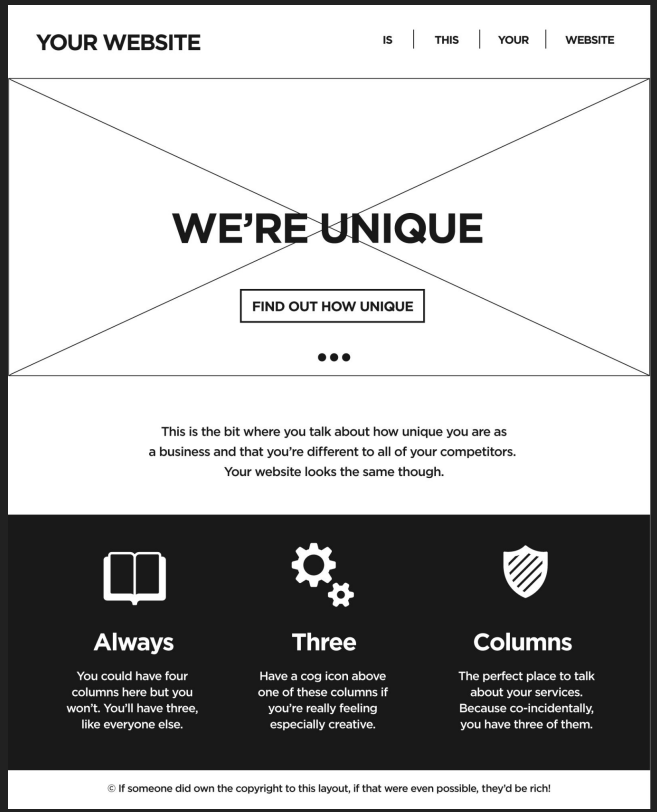


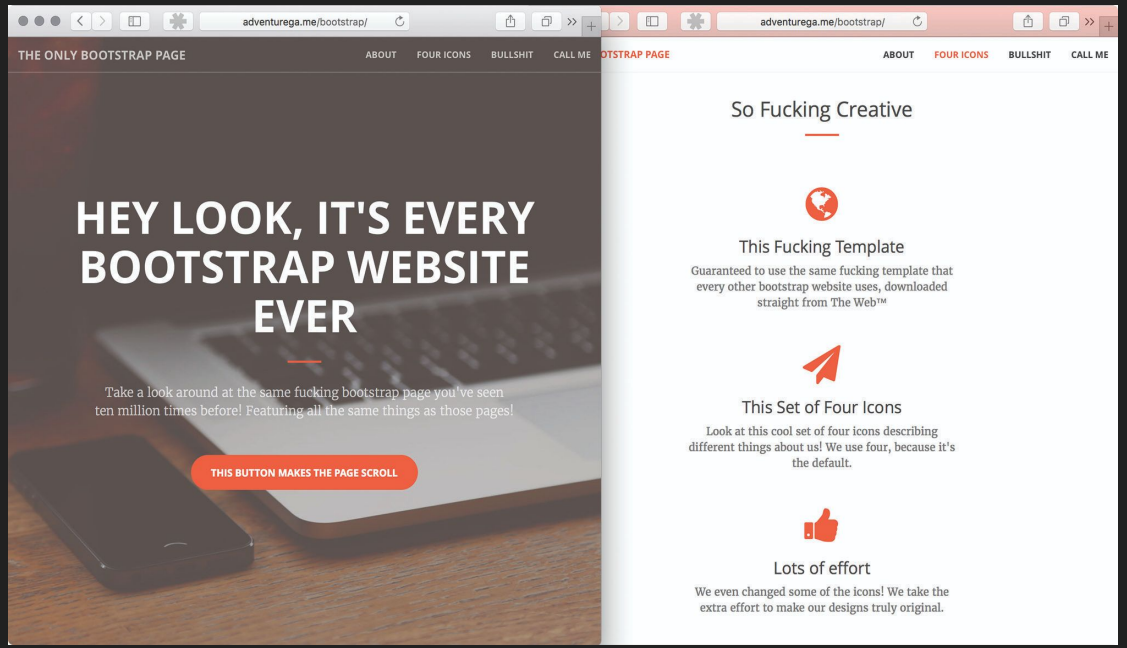
template monster



…and anything else you can find to give you inspiration on your own designs.

Every. Website. Ever.

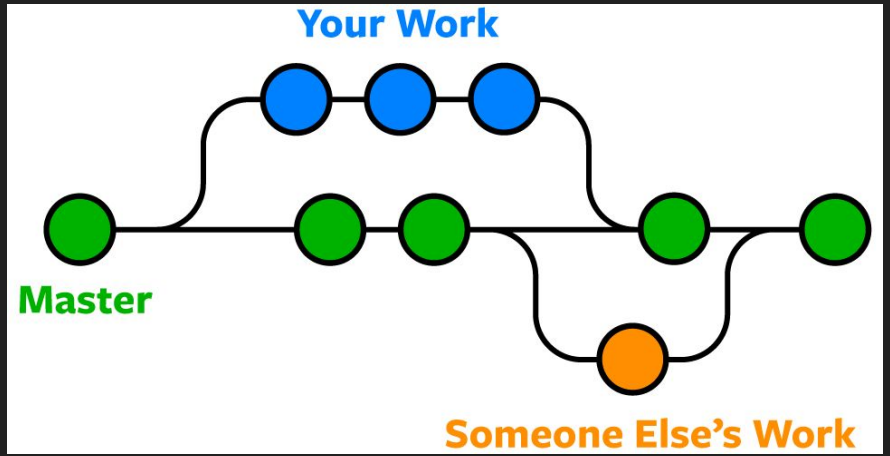




WORKFLOW

What is your GIT workflow?

Now that you will be working in a group, this workflow could make or break the team. GIT is a very powerful tool, BUT GIT is a very powerful tool. Which means for all the good it gives, it can also cause a lot of grief (for example wiping your teams commits).



Rules of GIT

- NEVER code on master
- NEVER force push master
- merge conflicts WILL HAPPEN. It’s a natural part of developing. You are not doing anything wrong. There are ways of minimizing merge conflicts but you can never truly get rid of them.

Team Workflow

Consider having a SCRUM meeting amongst your team once or twice a day (ATLEAST). SCRUM meetings we follow a format of:

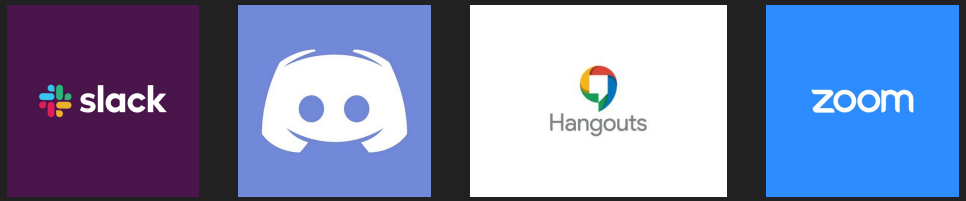
Yesterday(or before this meeting) I was working on _____

Roadblocks: I'm stuck on / I'm moving slow on _____, would anyone want to pair with me to help.

Today (or after this meeting) I will working on _____

OPTIONAL: (reassess the tickets and features and maybe decide to check the merges)

Communicate, Communicate, Communicate



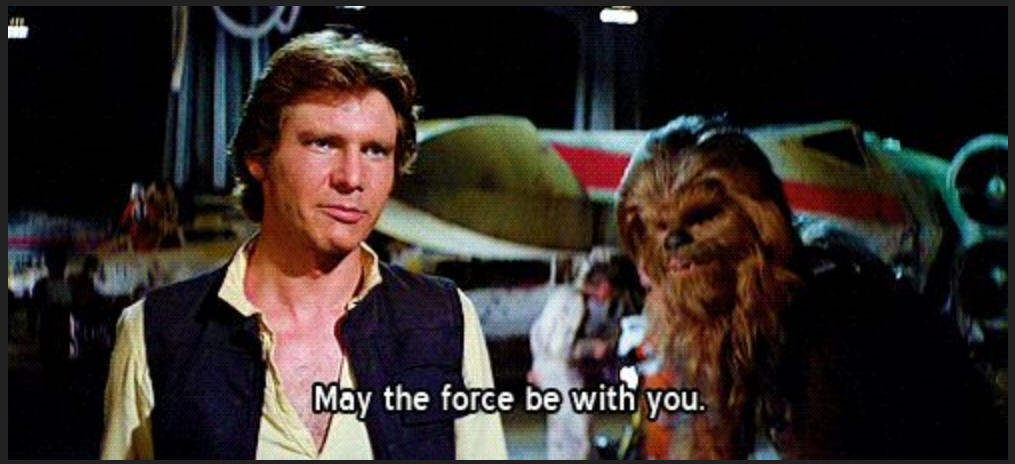
If you stop communicating with your group, they won’t know what you up to. Work maybe redone by multiple people. If you want to pair program through something, let the group know as well. The second the communication breaks down the group starts making mistakes.

DIVIDING TASKS

Task can be divided according to:

- Front-end
- Back-end
- API
- Frontend JS
- Database
- Features
- Paired
- Design (responsive)
- Whatever Works

In the beginning, I suggest to pair program through 1 - 3 features just to feel out the group dynamic, figure out where all the files are and how the project works.


May the force be with you.