

Sprint 3

247: Connect the front end to the back end

- I cloned the repo into our EC2 instance
- Made sure our front-end is able to show up on the EC2

← → 🔒 Not Secure | 54.87.82.227/test-client/ 🏠 ☆ 🔄 Update

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243: Front End Web App Development

- UI/UX
 - Create a mock-up wireframe
 - Prioritize accessibility

- Website Strategy -

1) goal driven design - connect/resonate with your customers. Emotional response → emotions drive actions!

2) Effective UX - presentation / organization / interaction
↓
communication structure behavior

3) Target Audience - customers → who they are → wants/needs

Stages of visitor intent:

- | | |
|--------------|-----------|
| 1) Awareness | 3) Desire |
| 2) Interest | 4) Action |

4) clarify message - villain + hero (client)

5) Define objectives + call to action (CTA)

- goal
- user flow
- what to do

→ CTA → end result → clearly visible!

6) Show USP in a powerful / concise way!

- Homepage Design -

• 3 seconds to communicate

→ Screen real estate

→ visual hierarchy

• Interactivity - have links + snippets of content

• Motion - use sparingly (slow to load)

• text - SEO, speak customers' "language"

Responsibilities of home page:

1) Introduction 2) entrance 3) announcement

↓
speak to user
establish identity
→ USP
→ logo/tag
→ intro
→ visual

↓
entry to content
breakdown
→ NAV
→ entries
→ search

↓
show new
encourage revisit
→ features, news
→ Ads

Goal Driven Design

→ achieve an emotional response from your viewer

Effective UX combines:

- 1) presentation → how site communicates
- 2) organization
- 3) interaction

Target Audience:

- build site for **customers** - not yourself/client
- figure out who they are
- determine their wants/needs

4 stages of visitor intent

- 1) Awareness
 - 2) Interest
 - 3) Desire
 - 4) Action
- } who we design for

Clarify message: Make your customer the "hero"

- define problem
- show how you have the solution to help the user be the hero
- how can you help them overcome the villain?

client does NOT need to be the hero!

→ can you say it easily?

Simple/relevant/repeatable/memorable/compelling

Call to Action → main goal of the website

↳ End Result?

↳ clearly visible

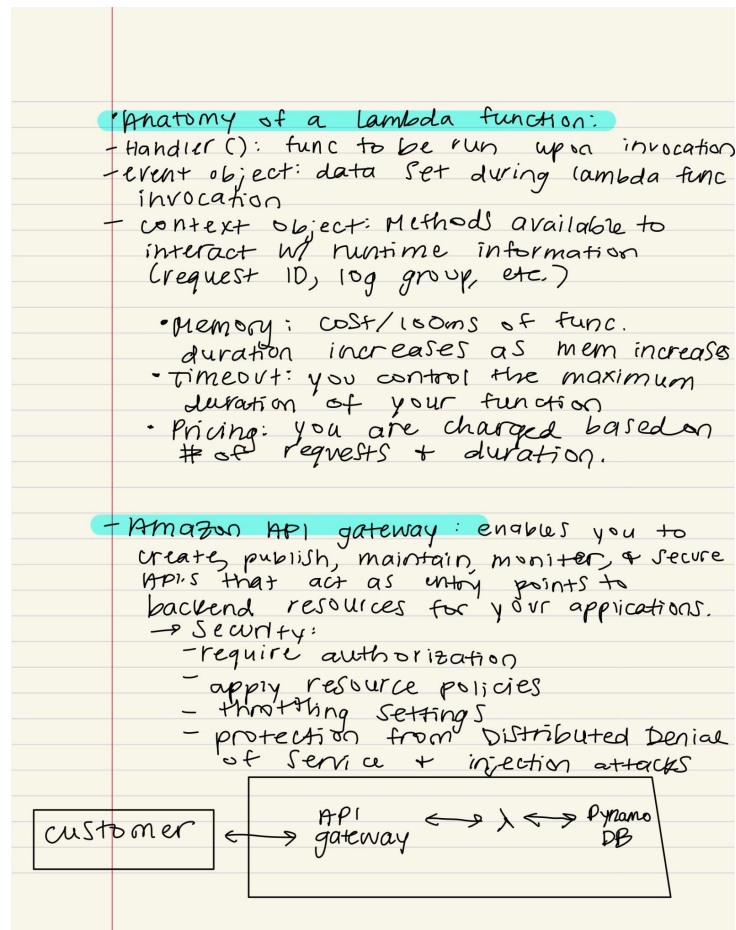
245: Back End Web App Development

301: AWS Applications

- Gained access to AWS Cognito
- Node.js (seen in last research doc)
- Integrate login process with AWS Cognito
- Lambda functions for fetching data from our database
- API Gateway
 - Websocket & restful APIs
 - Fully managed
 - Create, publish, maintain, monitor, & secure API

199: API's

- Will utilize to add entries to our database
 - User info
 - Point info



200: API 3.0 openspec

- Open source format for describing and documenting APIs
- Restful APIs

- <https://support.smartbear.com/swaggerhub/docs/tutorials/openapi-3-tutorial.html>
 - 3 main components: meta information, path information, reusable components
 - Done in YAML
 - Can utilize pre-built templates

255: Password Encryption

- <https://docs.aws.amazon.com/cognito/latest/developerguide/data-protection.html>
- Our passwords will be stored in AWS Cognito which are automatically encrypted at rest
 - AES-256
- Encryption in transit is done by us... refer to the Shared Responsibility Model
 - Clients must also support cipher suites with perfect forward secrecy (PFS) such as Ephemeral Diffie-Hellman (DHE) or Elliptic Curve Ephemeral Diffie-Hellman (ECDHE). Most modern systems such as Java 7 and later support these modes.

253: Research Software Security Protocols

- AWS WAF - web application firewall to control how traffic reaches our application
- AWS Guard Duty
- Aws Inspector
- AWS Shield - DDos attack protection