TBP 101: REQUIREMENTS

Lab 04 - CS 411 @ Boston University

Solution Requirements

- O Describe specific characteristics that a product must have to meet the needs of the stakeholders and the business itself. They fall into two large groups.
 - Functional requirements define what a product must do, what its features and functions are.
 - Nonfunctional requirements describe the general properties of a system. They are also known as quality attributes.

Let's get into some...

HIGH-LEVEL REQUIREMENTS

Utilize a Database:

- MySQL
 - Nothing wrong with keeping it simple
- PostgreSQL
 - MySQL+
- MongoDB
 - We like that
- Oracle Database
 - Ok boomer
- Microsoft SQL Server
 - What are you a business student?

Two Publicly Available APIs:

- Twitter API
 - Elon is that you?
- Google Maps API
 - In all seriousness, this one is actually useful
- OpenWeatherMap API
 - "Hey Siri, what's the high today?"
- OpenAI API
 - Maybe Skynet isn't so far off
- Spotify Web API
 - Apple Music? No thanks. Pandora?! Who are you?

Third-Party Authentication

- Oauth (Facebook, Google, Twitter)
 - O You will actually... no you SHOULD use this
- Microsoft Account Authentication (Microsoft Services)
 - Someone say Outlook?
- Apple ID Authentication (Apple Services)_
 - O Green bubbles statistically get ghosted
- GitHub Authentication (GitHub Services)
 - O Hey... We've seen this before...
- Okta (Identity Management Platform for Third-Party Auth)
 - O Honestly, I just went down a rabbit hole at this point

A Decoupled Architecture

- A headless content management system (CMS) that separates content creation from content delivery
- A microservices architecture, where each service is responsible for a specific function and communicates with other services via APIs
- A serverless architecture, where the application's code is split into small, independent functions that are executed in response to specific events or triggers
- A client-server architecture, where the client and server are loosely coupled and communicate via APIs or other standardized protocols
 - O This is what you all will be putting together







RESOURCES...

git add lab04.txt git commit -m "complete" git push origin master

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