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Determine if api gateway can be leveraged with next.js APIs

Nextjs is a react framework that can help implement both the front end and back end of a web or mobile application. API gateway is an aws tool to help monitor, and utilize apis in an application. Although it is possible for nextjs to communicate with an api via the builtin api routes. API gateway can be connected to in nextjs and then it can utilize all that api gateway offers like a more efficient development, easier monitoring, security and authentication, and access to other aws tools. Short answer yes api gateway can be leveraged with next js but it may be unnecessary so it will have to be discussed with the group.

https://nextjs.org/docs/pages/building-your-application/routing/api-routes
https://aws.amazon.com/api-gateway/

List of technologies

AWS Amplify: Hosts the application on the internet
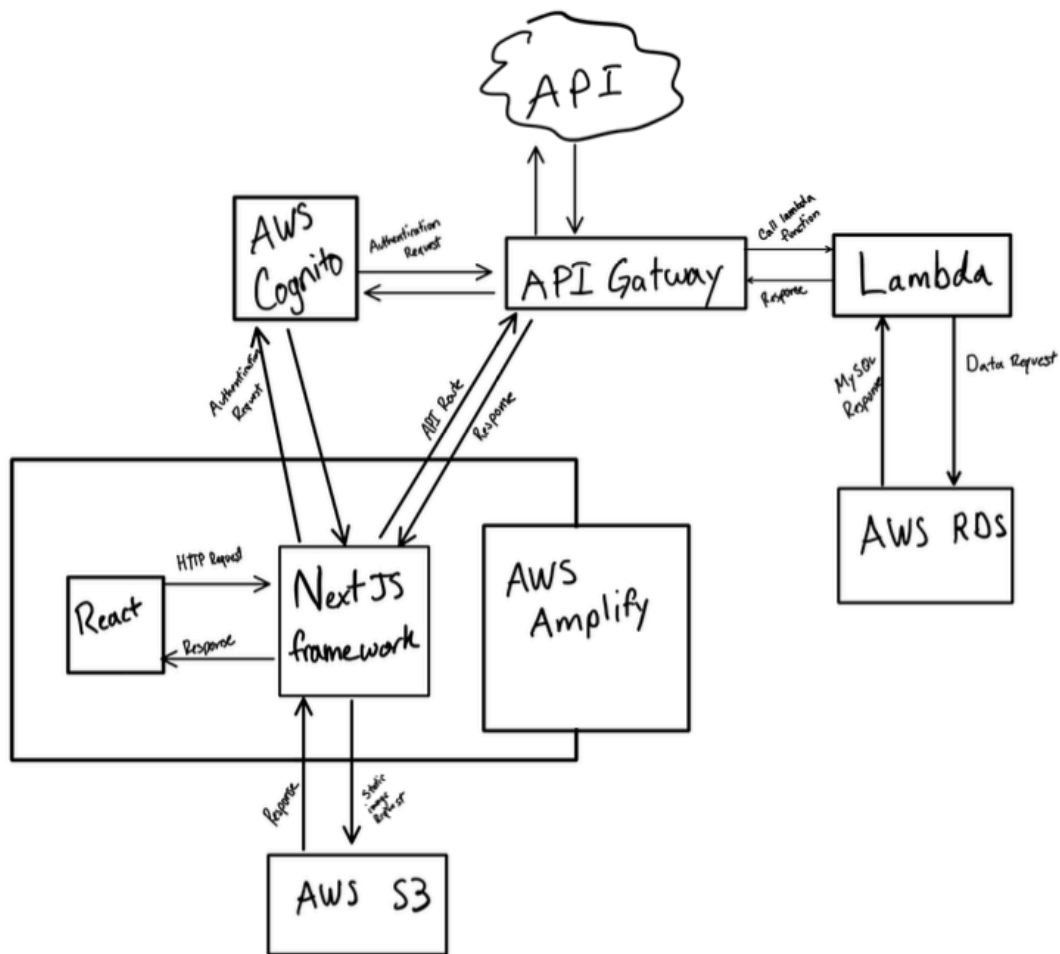AWS RDS (mySQL): database
AWS Cognito: Sign in
AWS S3: Store static images for application
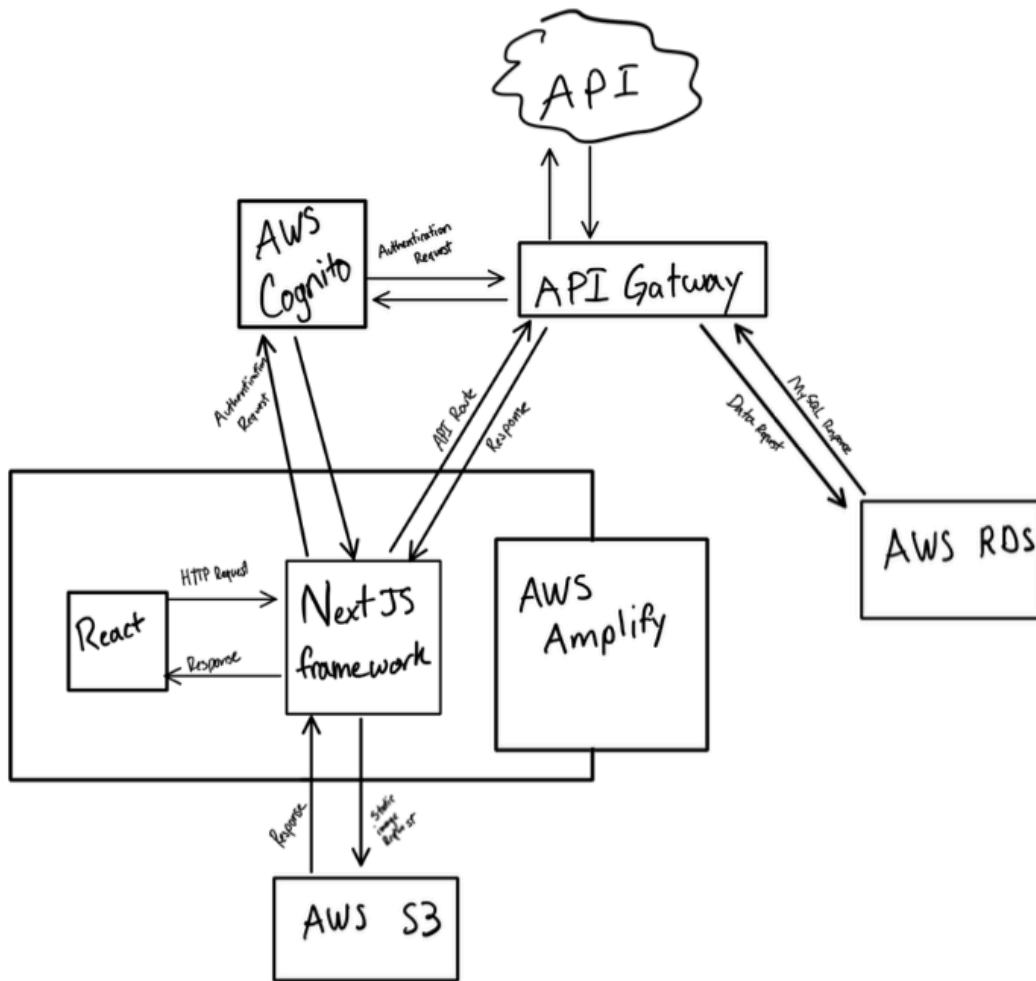React (mui): Frontend. mui is a react variant that we can optionally use
NextJS: Backend server, serverless functions implemented with API Routes
Maybe: aws lambda to interact with database and api gateway which is to help with interaction from frontend to database and the apis

I have a few drawings since we haven't fully determined which technologies are going to use, the first one uses both api gateway and lambda and this is what we will most likely use.

Without lambda

Without gateway