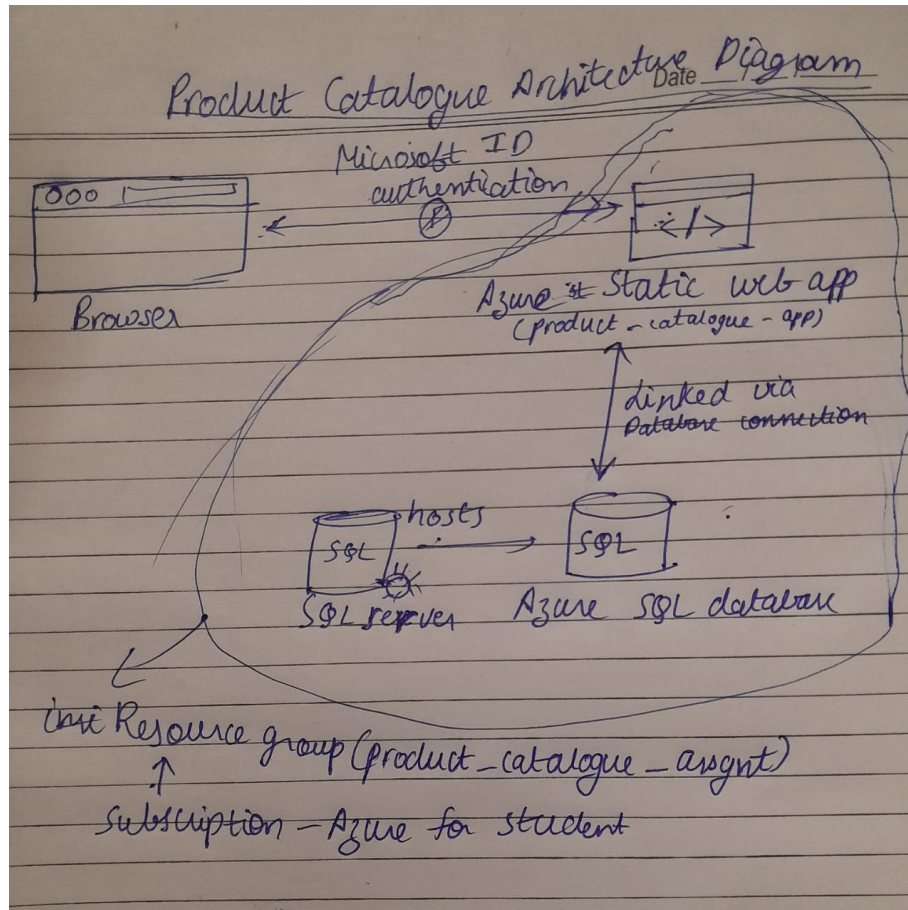


## Added Feature:

The feature I have added is Microsoft ID Authentication available from Microsoft Azure in the static web apps configuration file. This feature asks for the user's Microsoft Account to allow them access to the site and prevents anonymous unauthenticated users from accessing the site.

## Architecture Diagram:



The architecture diagram describes the resources present in the resource group hosted in the cloud and their interaction with each other.

## Architecture Decisions:

The important architectural decisions that were taken are:

1. The decision to choose static web apps over web apps. This is because it employs simpler Github interaction thus allowing for quicker deployment. It is also ideal for small-scale websites such as the product catalogue. It's free tier offers 100 GB of bandwidth and which is preferable to Web Apps' 60 CPU minutes/day. As such, in the development stage, it's preferable to Web apps; however, in the production/public deployment stage, Web apps may be preferable as they enable better load scaling and balancing, server-side processing and wider range of frameworks.
2. Over all frameworks supported by static web apps such as Node, React, Angular etc., the decision was made to use Node.js. This is because Node has an advantage in terms of optimising throughput and scalability in web apps with input/output operations. Thus it is very efficient and robust for processing user queries and thus was used in developing the product catalogue.
3. Azure SQL Database is used for storing structured data for the product catalogue. It is used over other alternatives such as running SQL server on Azure VMs or Azure SQL managed instance because it is the most cost-effective option, it has high availability and is easily scalable. Since we are developing a new cloud service, there is no migration problem that can arise. It's also simpler to develop in.

## **URL to access the application:**

The url to access the application is <https://proud-beach-0190eed00.6.azurestaticapps.net>

Please open the link/URL in Incognito/Private Window to check the authentication feature properly as it prevents automatic sign-in of Microsoft.