# Share with the candidate - Architecture Assignment

#### Architecture Assignment

This is an assignment of creating a solution based on the architecture you create.

This assignment:



Does not require any coding

#### **Definition of Done**

The final output of this assignment is:

- Architecture Diagrams this should be whatever you think(we encourage you to create Block Diagram/Sequence Diagrams)
- Architecture Spec Textual Explanation of the Solution and decision points

#### The Storyline - Pizza Order Website

We have a company that has a website for ordering Pizza.

The following are the different steps to order Pizza:

- The client is entering the website (pizza.hiredscore.com)
- The client decides what to order by browsing the different options
- The client sends the Order (Pay the bill, fill out the address and email & cellphone) to the website
- · The client would get a notification (cellular & email) on his successful order
- · After 1 hour the client gets the Pizza home

#### Requirements

Define the architecture that can support the storyline above and the additional following requirements

## Website

- A website that would be able the serve 10s of thousands of concurrent users
- a Website that can scale, since we might get peaks and the Mondial and other occasions

#### **Persistence**

We would like to persist the user's Data as well as their order history.

· Choose the Databases you would like to use for this data for easy querying(as well as scalability)

### **Notifications**

We would like to send a notification to the user

• Define the pipeline to create the notifications

# Security

Secure the site against DDOS Attacks

The site and Pizza have a lot of competition, and we suspect some malicious parties trying to harm the website.

· You need to secure it!

Authentication(bonus requirement)

The website can support accounts as well as guests, hence we would need to support authentication.

· Authenticate users for login

https://excalidraw.com/