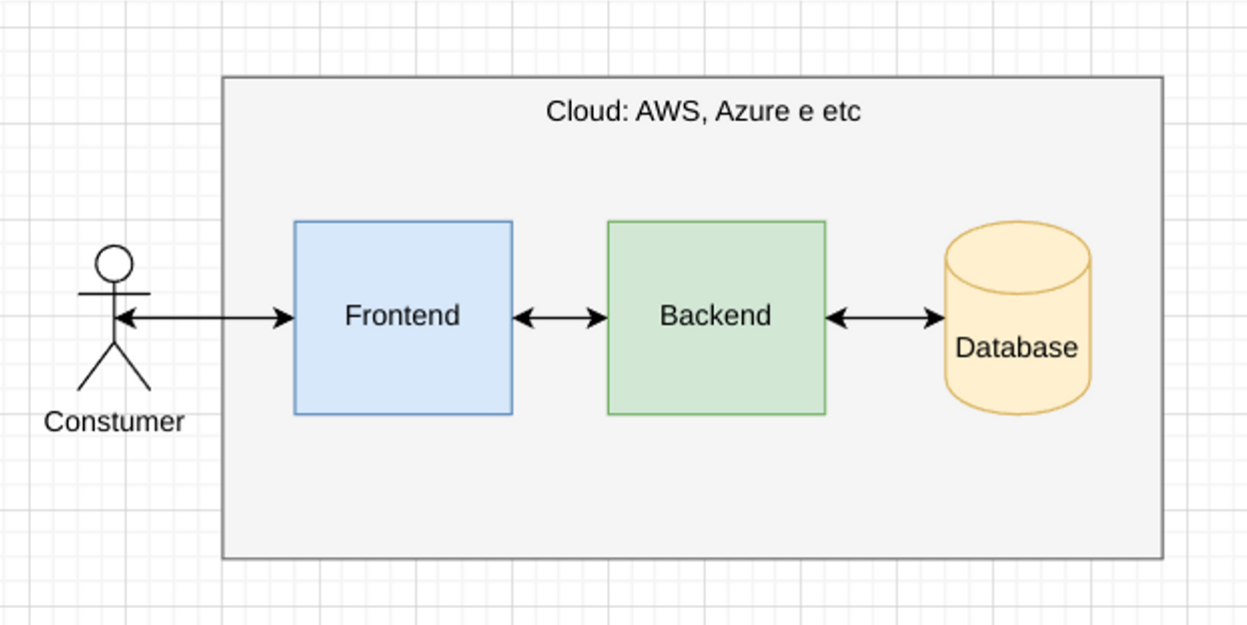
3. Web App Restful API System Design

1. Describe the high-level design

First, we will need a cloud to host our services in a simple way we will need two applications a frontend another backend, and a database service.

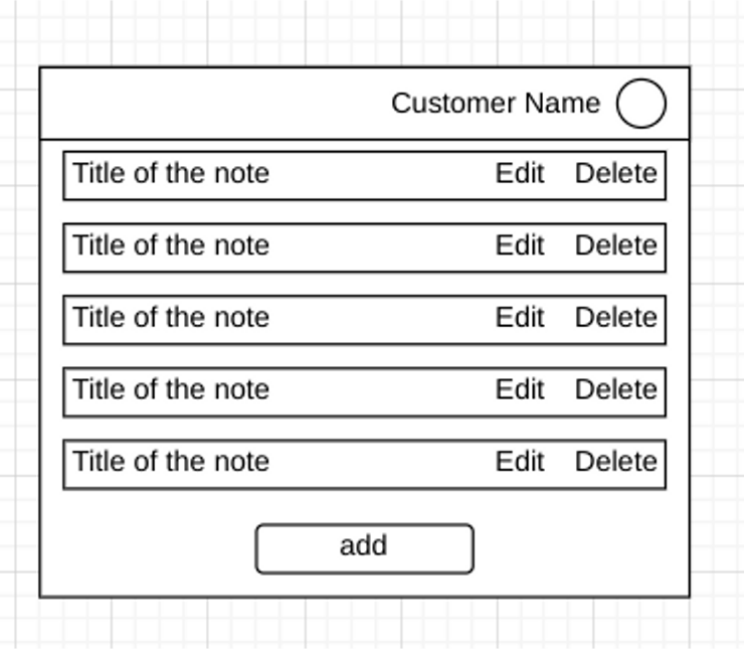


2. Web App UI

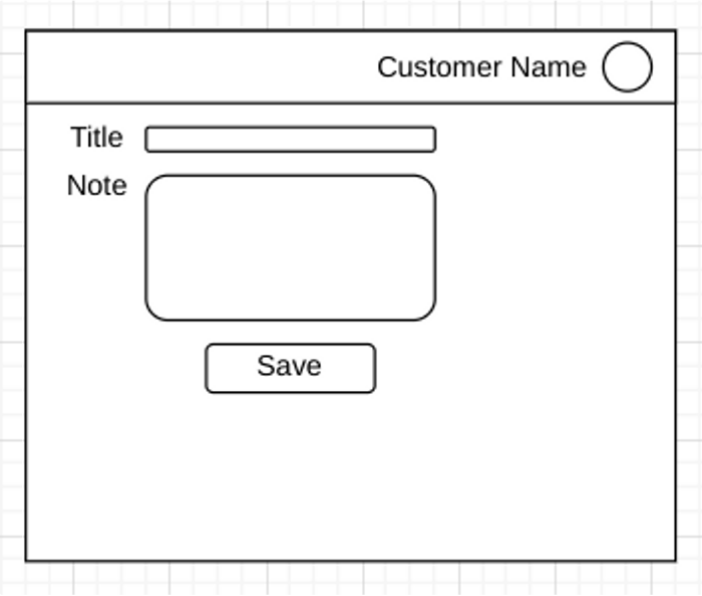
It's not very easy for me to create a wireframe because I don't have experience in applications like Figma, I usually use it more to check what is done by the design team.

I believe that a good idea for this solution would be an initial screen where all the notes FROM THAT USER are listed.

We can have a table showing the title of the note and on the same line edit and delete options.



And one more screen to add or edit a selected option. Something like that.



I believe that with these two screens and a login screen, we could achieve our goal.

3. Data Model

Customer id will be a foreign key so we can separate notes by the user.

Deleted we can use this flag to hide data without need to delete the data.

Note id it is a good idea to use in this case UUID,

```
{ noteId, noteTitle, noteContent, deleted, createdAt, lastUpdatedAt,
deletedAt, customerId, }
```

4. Restful API

We can use a bearer token to get the user specifics data. Knowing this, we would use endpoints.

```
<!-- GET: get all notes --> /notes <!-- GET: get one note detail -->
/notes/:UUID <!-- POST: save a note --> /notes { noteTitle,
noteContent } <!-- PUT: save a note --> /notes/:UUID { noteTitle,
noteContent } <!-- DELETE: delete a note --> /notes/:UUID
```

5. Web Server

With our restful API in the air, we will be able to create, read, update and delete our notes. And these data will be persisted in our database and can be relational or non-relational depending on the objective.