

## Experiment No. 7

**Aim:** To study and Implement Database as a Service on SQL/NOSQL databases like AWS RDS, AZURE SQL/ MongoDB Lab/ Firebase.

### Code:

```
import React, { useEffect } from "react";
import DeleteIcon from "@mui/icons-material/Delete";
import { updateDoc, doc, getDoc, db } from './firebase';
import { useAuth } from './AuthContext';
async function fetchData(userEmail, notexd) {
  try {const title = [];
    const note = [];
    const docref = doc(db, 'users', userEmail);
    const docSnap = await getDoc(docref);
    const titlearr = docSnap.data().Title;
    const notearr = docSnap.data().Note;
    const newNotes = titlearr.map((title, index) => ( {title,
      content: notearr[index],}));
    titlearr.map((item) => {
      title.push(item); });
    notearr.map((item) => {
      note.push(item); });
    title.splice(notexd, 1);
    note.splice(notexd, 1);
    await updateDoc(docref, {
      'Note': note,
      'Title': title,});
    console.log('Array modified in Firestore successfully!');
  } catch (error) {
    console.error('Error modifying array in Firestore:', error);
  }
}
function Note(props) {
  const { user } = useAuth();
  const userEmail = user.email;
  async function handleClick() {
    console.log(props.id);
    await fetchData(userEmail, props.id);
    props.onDelete(props.id);
  }
  return (
    <div className="note">
      <h1>{props.title}</h1>
      <p>{props.content}</p>
      <button onClick={handleClick}>
```

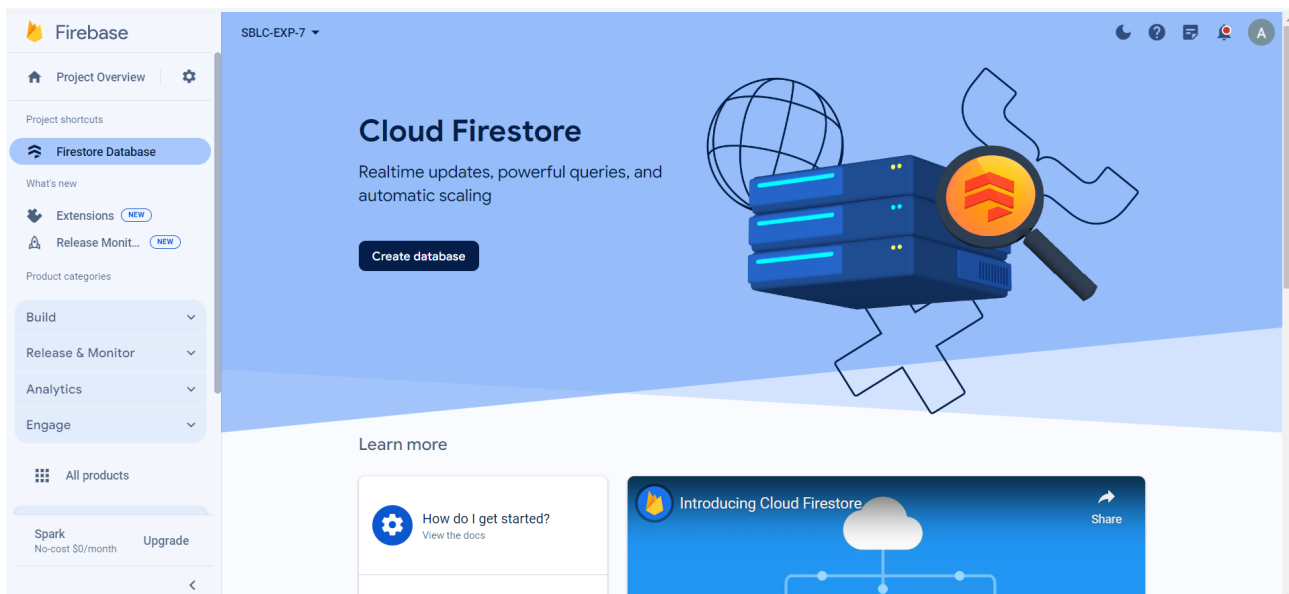
```

        <DeleteIcon />
      </button>
    </div>
  );
}
export default Note;

```

## Output:

### Setting up Firestore:



### Creating database:

Create database

1 Set name and location

2 Secure rules

Database ID

(default)

Location

asia-south1 (Mumbai)

Your location setting is where your Cloud Firestore data will be stored

!

After you set this location, you cannot change it later. If this is your first database, your default Cloud Storage location will also be set to this location.

Learn more

Cancel

Next

Adding user details:

Firestore

Project Overview

Project shortcuts

Firestore Database

Authentication

What's new

Extensions

Release Monit...

Product categories

Build

Release & Monitor

Analytics

Engage

All products

Spark

No-cost \$0/month

Upgrade

SBL-EXP-7

Cloud Firestore

users > arya232004@g...

(default)

+ Start collection

users

users

+ Add document

9CR7dJKiqh4tLdiAF4ev

arya232004@gmail.com

arya232004@gmail.com

+ Start collection

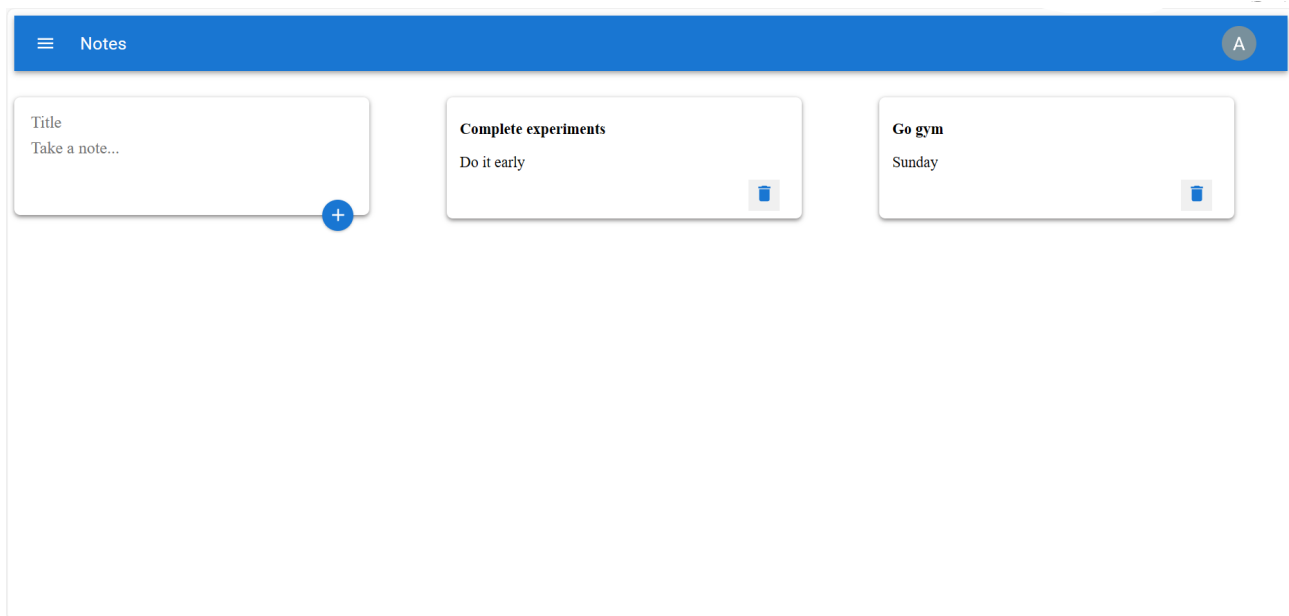
+ Add field

Note

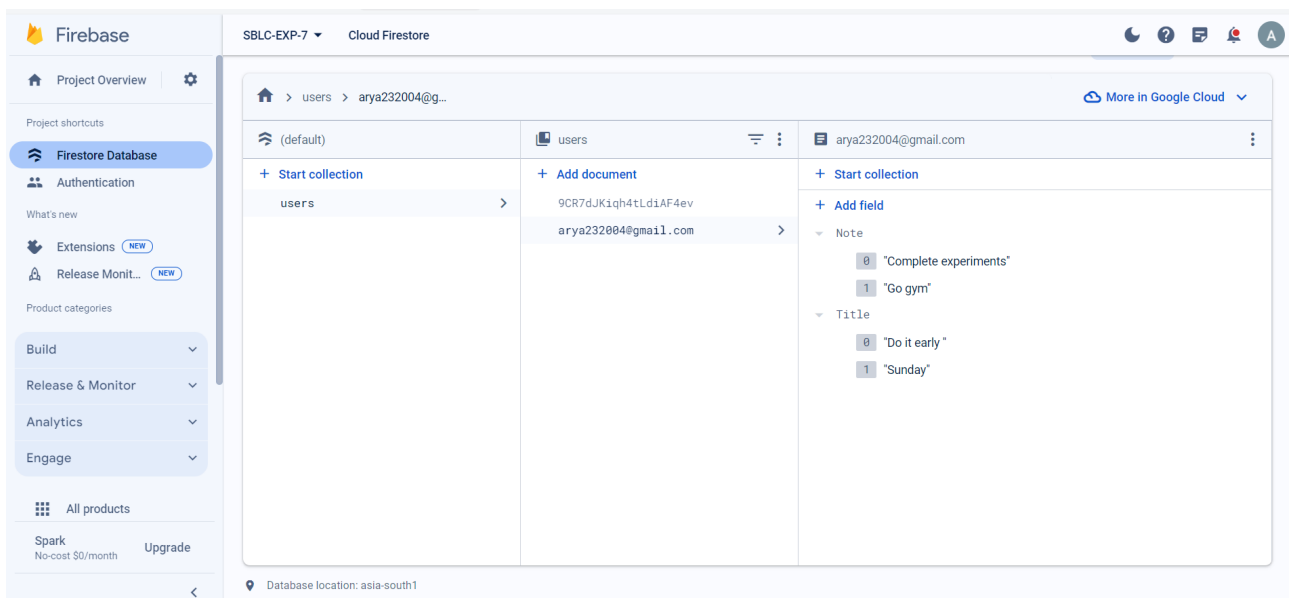
Title

Database location: asia-south1

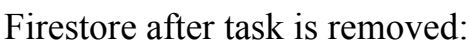
Creating tasks:



Firestore after tasks are added:



Removing task:



Hence Database as a Service on Firebase was successfully implemented.