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SWDV 691

Capstone

Database Design

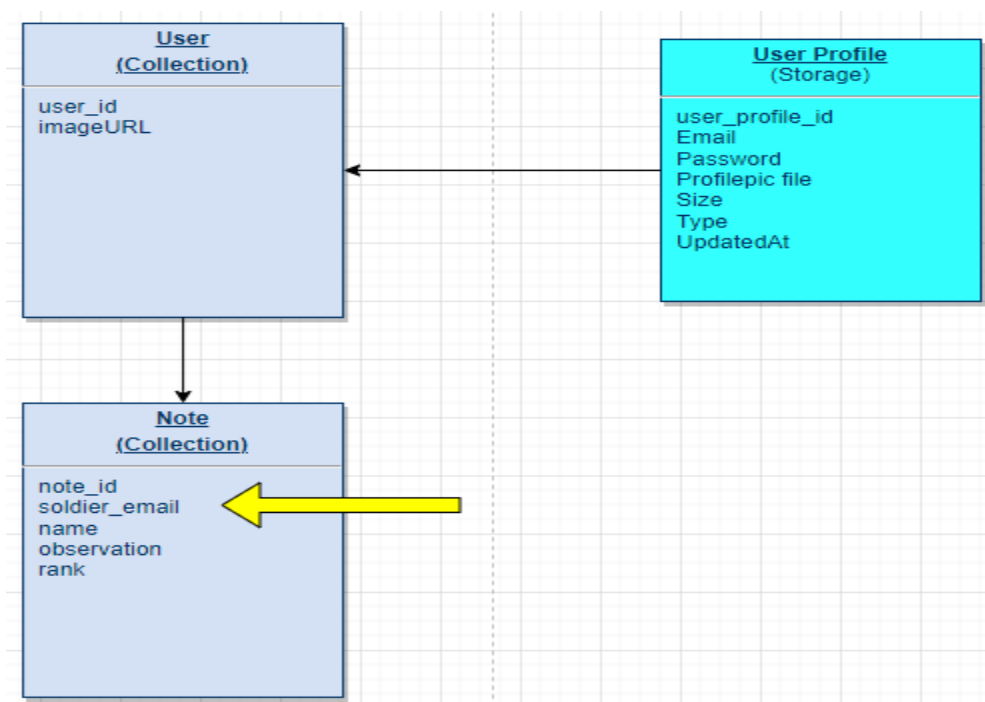
Overview

For my final project I will use Firebase as my database. I made this selection because the data for my project has few relationships and can easily be stored in collections. Firebase has many easy to use features to include user accounts and authentication. Users will interact with the database through a front end interface.

Data Specifications

The data will be collected from users and updated with the data service.

I will have two main collections: User and Note. I made and update to the Note table to replace the cell column with Soldier_email. I made this change with hopes of adding a feature that allows the observer to email the observation notes by pressing a button within the app. I also added primary keys to each of my tables.



Users

Document Structure

```
{  
  "idUser": string,  
  "imageUrl": string  
}
```

User Profiles

Storage

```
{  
  "IdUser": string,  
  "Email": string,  
  "Password": string,  
  "Profilepic file": uploaded file from user  
  "Size": string,  
  "Type": string,  
  "UpdatedAt": string  
}
```

Notes

Document Structure

```
{  
  "NotesID": string,  
  "soldier_email": string,  
  "Name": string,  
  "Observation": string,  
  "Rank": string,
```

```
"IdUser": string,  
}
```

Explanation

Notes

The purpose of this application is to collect and compile notes on individual Soldiers. Each new Soldier you add will have a new note. Each Soldier note contains basic information for the Soldiers. Users will see a modal type view with the Soldiers name, rank and a multiline input for observations. The modal will have options to update or delete observations. I hope to add a stretch feature that allows observers to press a button within the app that will email the observation notes to the Soldier who was observed.

Users

The application requires users to create a username and password in order to log in. Each user is authenticated against existing users in order to log in. Each user can select and upload a photo for their profile avatar. Users can only view and update Soldier notes under their profile.