Level 1: System Context diagram

Student Renter
[Person]

A student who wants to find off campus housing

Landlord
[Person]

A landlord that wants to lease a property or student that wants to sublease.

Makes account and views listing using

Makes account and posts listing using

EduRent Interface
[Software System]

Allows students to view available housing around campus at varying prices and lease terms. Also allows landlords and students to post available housing with details about rooms, occupancy, price, and lease terms

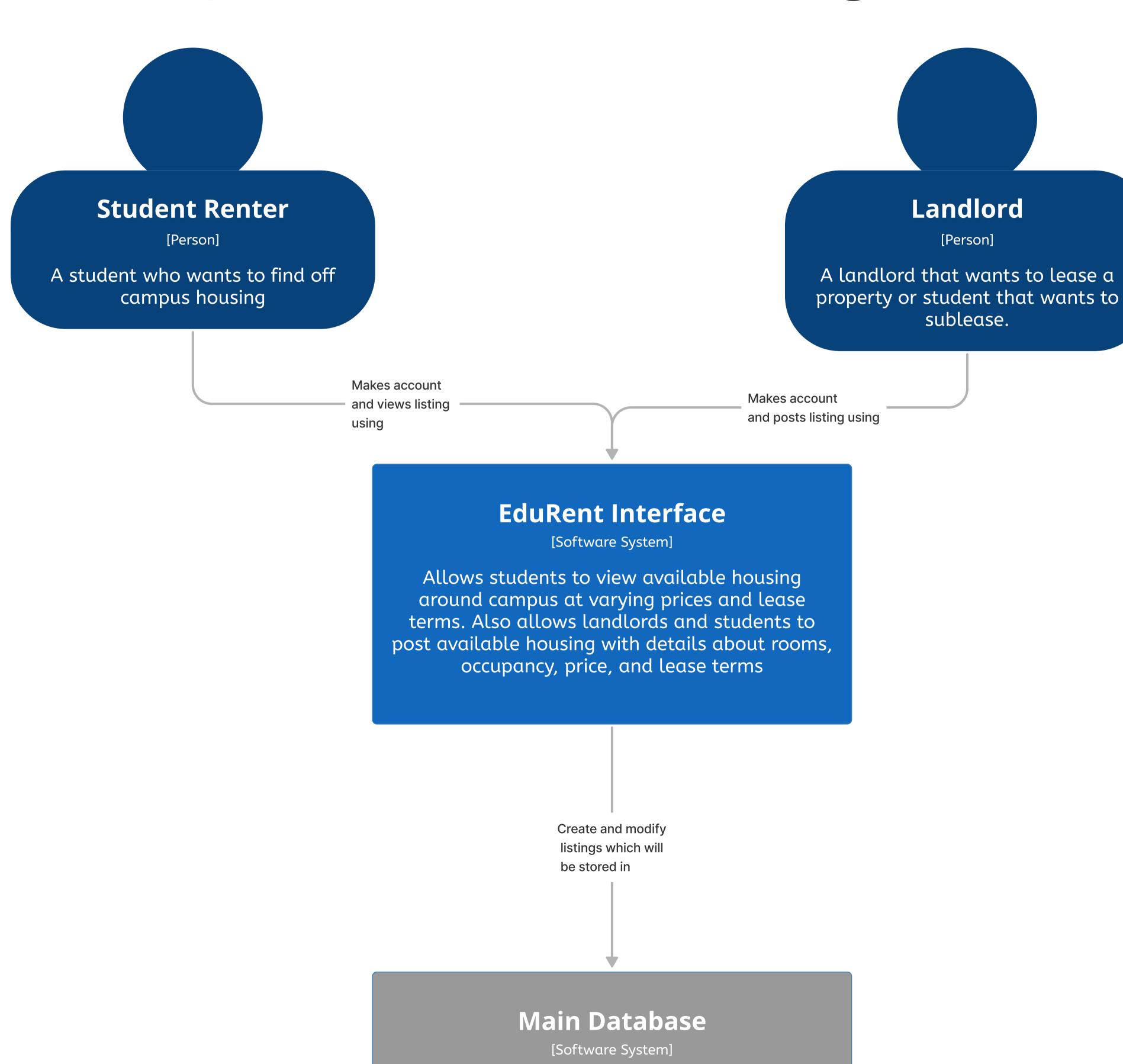Create and modify listings which will be stored in

Main Database
[Software System]

Stores data on all user accounts and properties available.

Level 2: Container diagram

Student Renter
[Person]
A student who wants to find off campus housing

Landlord
[Person]
A landlord that wants to lease a property or student that wants to sublease.

Visits edurent.com using [HTTPS]

Visits edurent.com using [HTTPS]

Web Application
[Container: Unsure of hosting infrastructure]
Delivers the static content and the listings to display.

Delivers to the customer's web browser

Single-Page Application
[Container: NextJS (React, Tailwind)]
Provides all of the functionality such as the ability to view listings, favorite listings, search listings, and create listings.

User Clicks on "EduRent Your Place" Button

Create Listing Pop-up
[Container: NextJS (React, Tailwind)]
Allows landlords and students to create a listing with information about their property including rooms, lease length, etc.

Database
[Container: MongoDB]
Stores user registration information, hashed authentication credentials, property information (image srcs, rooms, descriptions), etc.

Makes API calls to

Makes API calls to

When images are needed, fetch image

Reads from and writes to

Images Database
[Container: Cloudinary]
Stores images and which can be accessed via image src (URL).

API Application
[Container: Next API Gateway]
Fetches listings and other user data. Enables user to create new listings.