COP4710 - Caregivers

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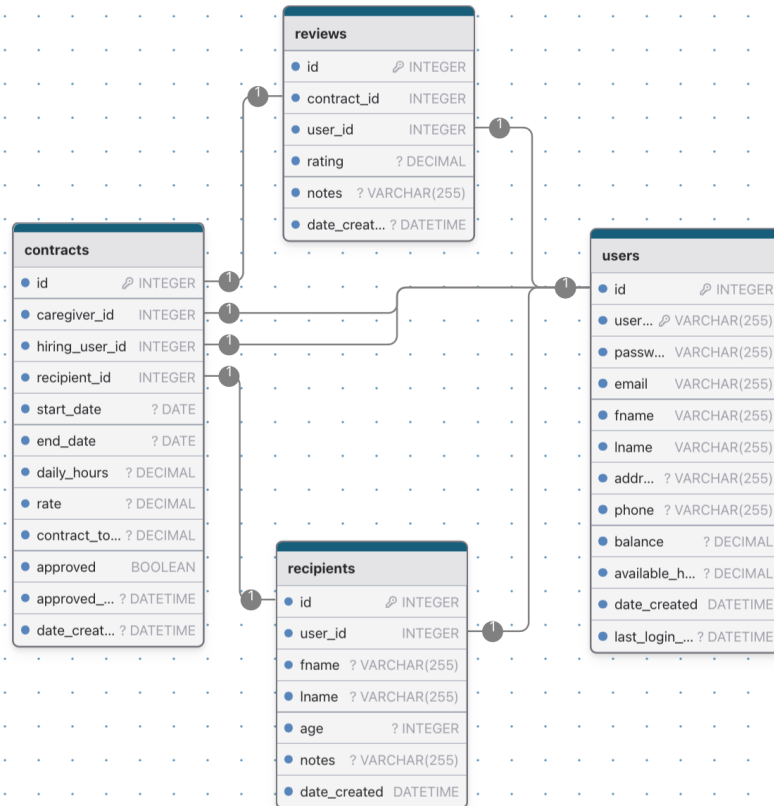
Division of Labor

- Andrew
  - Database and hosting
- Alperen
  - API
- Juan
  - Frontend

Hosting

- Hosted on a Digital Ocean LAMP droplet
- Github workflow to automatically deploy pushes to main on production server

UML Diagram

SQL Tables

```sql
CREATE TABLE `recipients` (
    `id` INTEGER NOT NULL AUTO_INCREMENT UNIQUE,
    `user_id` INTEGER NOT NULL,
    `fname` VARCHAR(255),
    `lname` VARCHAR(255),
    `address` VARCHAR(255),
    `age` INTEGER,
    `notes` VARCHAR(255),
    `date_created` DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
    PRIMARY KEY(`id`)
);
```

```sql
CREATE TABLE `users` (
    `id` INTEGER NOT NULL AUTO_INCREMENT UNIQUE,
    `username` VARCHAR(255) NOT NULL UNIQUE,
    `password` VARCHAR(255) NOT NULL,
    `email` VARCHAR(255) NOT NULL UNIQUE,
    `fname` VARCHAR(255) NOT NULL,
    `lname` VARCHAR(255) NOT NULL,
    `address` VARCHAR(255),
    `phone` VARCHAR(255),
    `balance` DECIMAL DEFAULT 2000,
    `available_hours` DECIMAL,
    `date_created` DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
    `last_login_date` DATETIME,
    PRIMARY KEY(`id`, `username`)
);
```

```sql
CREATE TABLE `contracts` (
    `id` INTEGER NOT NULL AUTO_INCREMENT UNIQUE,
    `caregiver_id` INTEGER NOT NULL,
    `hiring_user_id` INTEGER NOT NULL,
    `recipient_id` INTEGER NOT NULL,
    `start_date` DATE,
    `end_date` DATE,
    `daily_hours` DECIMAL,
    `rate` DECIMAL DEFAULT 30,
    `contract_total` DECIMAL,
    `approved` BOOLEAN NOT NULL,
    `approved_date` DATETIME,
    `date_created` DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
    PRIMARY KEY(`id`)
);
```

```sql
CREATE TABLE `reviews` (
    `id` INTEGER NOT NULL AUTO_INCREMENT UNIQUE,
    `contract_id` INTEGER NOT NULL,
    `user_id` INTEGER NOT NULL,
    `rating` DECIMAL,
    `notes` VARCHAR(255),
    `date_created` DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
    PRIMARY KEY(`id`)
);
```

SQL Relationships

```sql
ALTER TABLE `recipients`
ADD FOREIGN KEY(`user_id`) REFERENCES `users`(`id`)
ON UPDATE NO ACTION ON DELETE NO ACTION;
ALTER TABLE `contracts`
ADD FOREIGN KEY(`caregiver_id`) REFERENCES `users`(`id`)
ON UPDATE NO ACTION ON DELETE NO ACTION;
ALTER TABLE `contracts`
ADD FOREIGN KEY(`hiring_user_id`) REFERENCES `users`(`id`)
ON UPDATE NO ACTION ON DELETE NO ACTION;
ALTER TABLE `contracts`
ADD FOREIGN KEY(`recipient_id`) REFERENCES `recipients`(`id`)
ON UPDATE NO ACTION ON DELETE NO ACTION;
ALTER TABLE `reviews`
ADD FOREIGN KEY(`contract_id`) REFERENCES `contracts`(`id`)
ON UPDATE NO ACTION ON DELETE NO ACTION;
ALTER TABLE `reviews`
ADD FOREIGN KEY(`user_id`) REFERENCES `users`(`id`)
ON UPDATE NO ACTION ON DELETE NO ACTION;
```

Swaggerhub

Authentication

| POST | **/api/users/login** | Logs in a user with their credentials |

| POST | **/api/users/register** | Registers a new user |

Users

| POST | **/api/users/getUser** | Fetches user details by ID |

| POST | **/api/users/editUser** | Updates user details |

Swaggerhub

Reviews

POST `/api/reviews/createReview` Creates a new review

POST `/api/reviews/deleteReview` Deletes a review by ID

POST `/api/reviews/getReviewsByCaregiver` Fetches all reviews for a specific caregiver

POST `/api/reviews/getReviewsByUser` Fetches all reviews submitted by a specific user

POST `/api/reviews/updateReview` Updates a review's details

Swaggerhub

Recipients

POST `/api/recipients/createRecipient` Creates a new recipient

POST `/api/recipients/deleteRecipient` Deletes a recipient by ID

POST `/api/recipients/getRecipient` Fetches a specific recipient by ID

POST `/api/recipients/getRecipientsByUser` Fetches all recipients for a specific user

POST `/api/recipients/updateRecipient` Updates a recipient's details

Swaggerhub

Contracts

POST   **/api/contracts/createContract**   Creates a new contract

POST   **/api/contracts/deleteContract**   Deletes a contract by ID

POST   **/api/contracts/getContract**   Fetches a specific contract by ID

POST   **/api/contracts/getContractsByUser**   Fetches all contracts for a specific user

POST   **/api/contracts/updateContract**   Updates a contract's details

Swaggerhub

https://app.swaggerhub.com/apis/ALPERENYAZMACI/Caregiver/1.0.0#/