Remax Clone

An app for viewing properties, communicating with realtors, reading and commenting on a realtor-managed blog.

BY

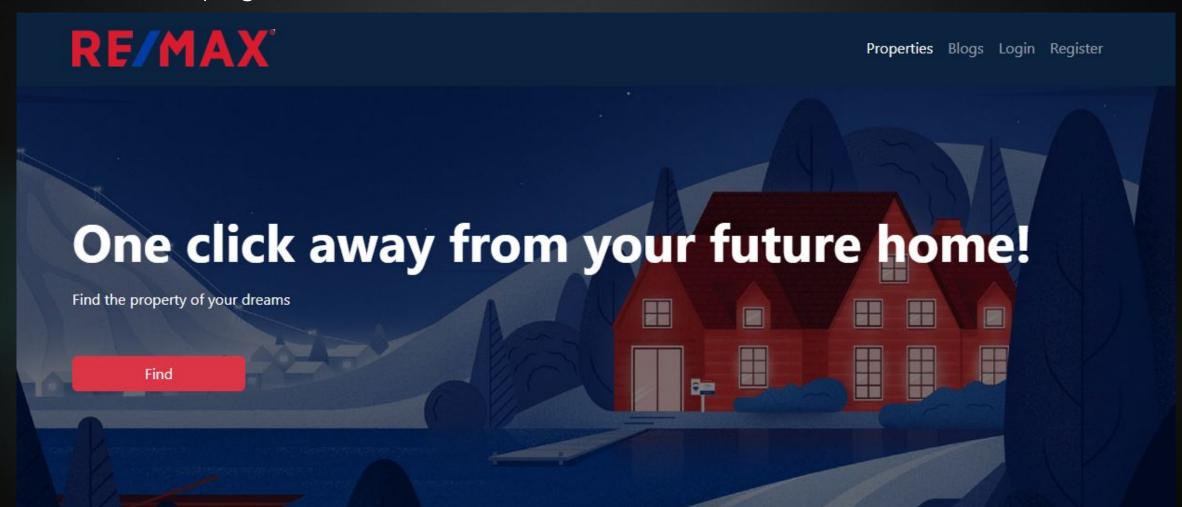
DANG HUYNH MINH (#1670214)
ANASTASSIA TARASSOVA (#1277712)
TRANG TRIEU (#6341464)

Background

- Remax clone is a real estate website.
- Numerous challenging aspects
- Opportunity to reuse the Google Maps API idea from past course
- Will look great in a portfolio



Home page



User profile

RF/MAX

Properties Blogs Jame Bond *

Realtor Profile

Profile Picture

First Name

Jame

Phone Number

Email

jame@exam.ca

Last Name

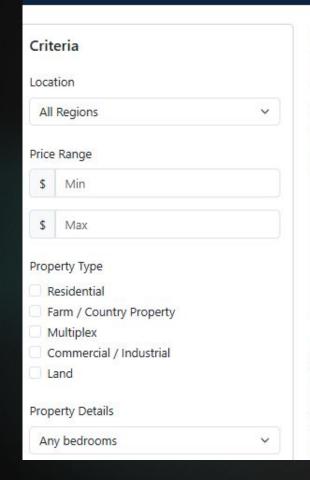
Bond

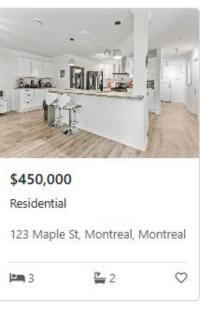
City

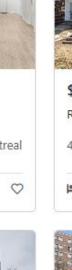
Montreal

Edit Profile

Search



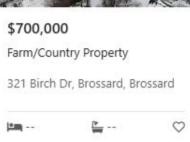
















RE/MAX Logo Properties Blogs Trang Trieu +

Residenti

123 Maple St, Montreal

\$450,000

Montreal











Property Description

Beautiful 3-bedroom home located in a quiet neighborhood in Montreal. Recently renovated kitchen and living area.

Building Details

Year Built: 1990

Bedrooms: 3

Bathrooms: 2

Contact Broker

Beep Boop Beep Boop

Certified Real Estate Broker

Independent Broker



Send Email

▶ Blogs

RF/MAX

Properties Blogs Thank You *

All Blog Articles

Create A Blog Article



First Blog Article

First! On teada-tuntud fakt, et lehe kujunduse vaatamisel juhib selle loetav sisu lugeja tähelepanu kõrvale. Lorem Ipsumi kasutamise



Second Blog Article! :D

Second! Saadaval on mitmeid erinevaid Lorem Ipsumi variante, kuid enamik neist on läbi teinud muutusi kas sisestatud huumori



Third!

Vastupidiselt tavaarusaamale, Lorem Ipsum ei ole lihtsalt suvaline tekst. See sai alguse osakesest klassikalisest ladina kirjandusest,

Blog as seen by author (realtor)

Sample Blog

Kui 2012. aastal kuulutati välja Eesti filmi sajandi auhinnad, siis nimetati nii filmitegijate arvamuse kui ka rahvahääletuse tulemusel sajandi filmiks Arvo Kruusemendi "Kevade". Samast filmist tulid ka sajandi filmimotiiv – paljutähenduslikud silmad – ja sajandi filmipaar – Arno ja Teele. Sajandi naistäheks valiti Elle Kull ja meestäheks Lembit Ulfsak. Filmimuusikast tõsteti esile Uno Naissoo viisiga Paul-Eerik Rummo sõnadele loodud "Viimse reliikvia" laulud ning samast linateosest leiti ka sajandi filmikild – "Meie reliikvia on vabadus!". Sajandi animatäheks valiti Lotte.





Editing a blog as seen by author



Roles



Dang: profiles



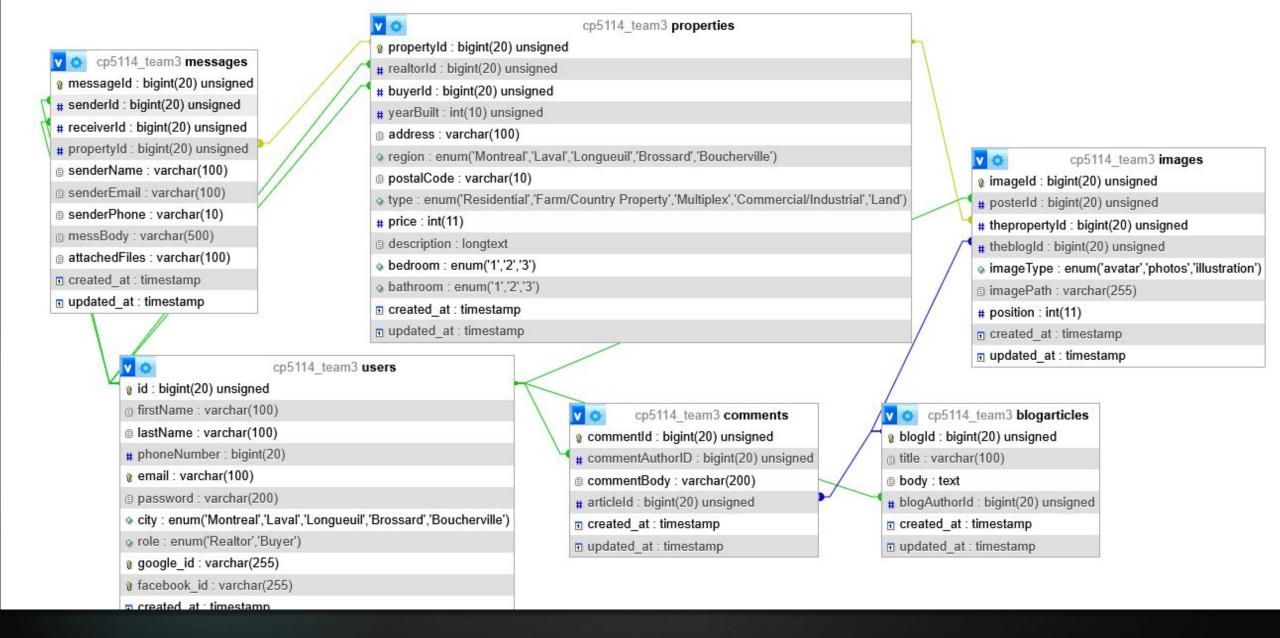
Ana: routes, models, blog, comments



Trang: user login/registration, DB schema, properties



Everyone: front-end, testing

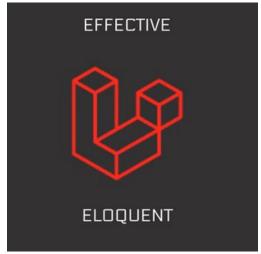


Database structure









Challenges and Solutions

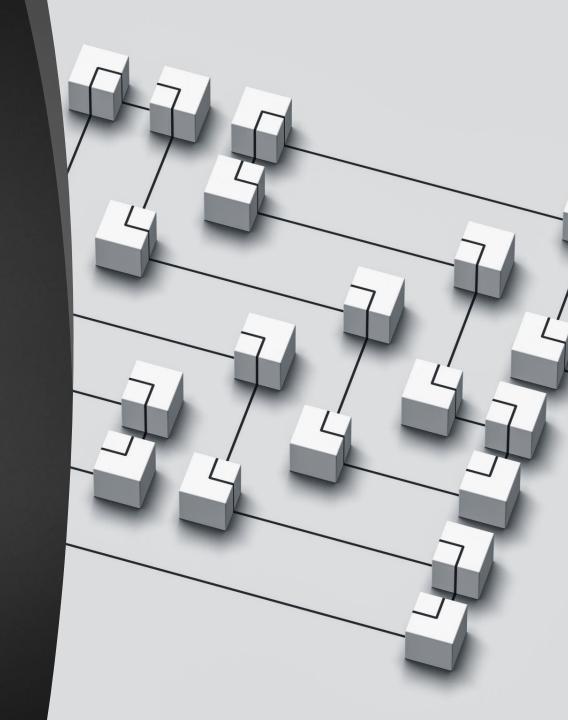
Challenges

Technology:

- Familiarize Laravel framework
- Switch to Herd from Xamp Mamp Wamp
- MeekroDB conflicted with Eloquent ORM

Project

- Property Search and Filtering
- Security and Data Protection



What we learned (Trang)

Login Auth in Laravel

```
namespace App\Models;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Foundation\Auth\User as Authenticatable;
use Illuminate\Notifications\Notifiable;
class User extends Authenticatable
   use HasFactory, Notifiable;
   protected $fillable = [
        'firstName',
        'lastName'.
        'email',
        'password',
        'phoneNumber',
        'city',
        'role',
        'avatar',
   protected $hidden = [
        'password',
        'remember token',
```

User model

Login Controller

What we learned

```
public function __construct()
{
    // Ensure only authenticated users can access this controller
    $this->middleware('auth');
}
```

Profile Controller

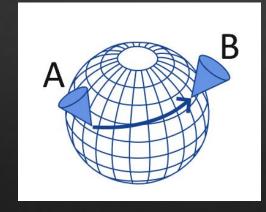
Login View (login.blade.php)

What we learned (Ana)



@guest and @auth

Haversine formula



Haversine formula

```
// Geocoding API request with end address
$geocodeTo = file get contents('https://maps.googleapis.com/maps/api/geocode/json?address='.$f
$outputTo = json decode($geocodeTo);
if(!empty($outputTo->error message)){
    return $outputTo->error message;
$latitudeFrom
                = $outputFrom->results[0]->geometry->location->lat;
                = $outputFrom->results[0]->geometry->location->lng;
$longitudeFrom
$latitudeTo
                  = $outputTo->results[0]->geometry->location->lat;
$longitudeTo
               = $outputTo->results[0]->geometry->location->lng;
// Calculate distance between latitude and longitude
        = $longitudeFrom - $longitudeTo;
Stheta
$dist
        = sin(deg2rad($latitudeFrom)) * sin(deg2rad($latitudeTo)) + cos(deg2rad($latitudeFro
$dist
        = acos($dist);
$dist
        = rad2deg($dist);
        = $dist * 60 * 1.1515;
Smiles
// Convert unit and return distance
$unit = strtoupper($unit);
```

What we learned (Ana)

- Escape any potentially harmful HTML/JS using e()
 - <script>alert('XSS')</script> becomes <script>alert('XSS')</script>
- Convert newline characters in the article body to actual HTML line breaks using nl2br().
 - two lines become line1
line2
- Render this safe HTML back into the page using {!! !!}
 - Used only for safe HTML

```
<h1>{{ $article->title }}</h1>
</-- Article Body -->
<div class="mb-4">
   {!! nl2br(e($article->body)) !!}
</div>
</-- Article Author and Date -->
class="text-muted">
```

What we learned (Ana)

- Laravel Gates
- Defined in AuthServiceProvider
- Can be associated with façades

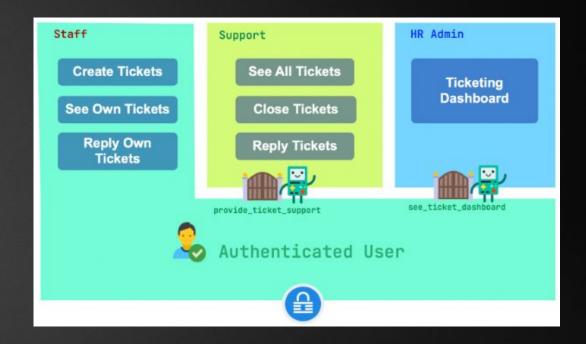
```
Gate::define('updatearticle', function ($user, $article) {
  return $user->id === $article->authorId;
});
```

```
use Illuminate\Support\Facades\Gate;

public function update($id)
{
    $article = Article::find($id);

    if (Gate::denies('updatearticle', $article)) {
        abort(403, 'Unauthorized action.');
    }

    return view('articles.edit', compact('article'));
}
```



What we learned (Dang)

@csrf

Put method in form

```
<form action="{{ route('profile.update') }}" method="POST" enctype="multipart/form-data">
    @csrf
    @method('PUT') <!-- Allows to use PUT method -->
```

Future work

- Finalize internal messaging system
- Finalize Google Maps Geolocalisation API
- Walking distance from amenities (schools, hospitals, shopping centers, parks, etc.)
- Comments should be moderated via Edit and Delete
- Autosuggestions based on past searches
- Arrays of liked properties by users

Summary

We built a Remax clone website for realtors and potential buyers.

Users can register, login and view their profile.

Users can search and view listed properties.

Users can read blog articles and comments.

Registered users can comment on blog posts.

Realtors can CRUD properties and blog posts.

Some features are missing/not completed.

Each feature functions while being loosely connected to each other.

Thank you for listening

