

THE INITIAL DESCRIPTION OF THE OBJECT OF INTELLECTUAL PROPERTY
SPACEFEX – Compliance System Source Code

<?php

```
namespace SORQPAY\Modules\CaseManagement\Repositories;

use Illuminate\Contracts\Pagination\LengthAwarePaginator;
use Illuminate\Database\Eloquent\Collection;
use SORQPAY\Modules\CaseManagement\Exception\CaseNotFoundException;
use SORQPAY\Modules\CaseManagement\Models\Cases;
use SORQPAY\Modules\CaseManagement\Property\CaseType;
use SORQPAY\Modules\Users\Models\UserType\Agent;
use SORQPAY\Modules\Users\Models\UserType\AgentInterface;
use SORQPAY\Modules\Users\Models\UserType\UserInterface;
use SORQPAY\Modules\CaseManagement\Repositories\Filters\CaseBusinessProfileCompanyNameFilter;
use SORQPAY\System\Repositories\AbstractSorqpayRepository;
use SORQPAY\System\Repositories\Filters\ArrayFilter;
use SORQPAY\System\Repositories\Filters\LikeFilter;
use SORQPAY\System\Repositories\Filters\ExactFilter;
use SORQPAY\System\Repositories\Filters\ExactCustomerIdFilter;
use SORQPAY\System\Repositories\Filters\WhereInFilter;
use Spatie\QueryBuilder\AllowedFilter;
use Spatie\QueryBuilder\QueryBuilder;
use SORQPAY\Modules\Users\Models\Profile\BusinessProfile;
use SORQPAY\Modules\CaseManagement\Property\CaseStatus;
use Illuminate\Support\Facades\Log;
use Twilio\Rest\Chat\V1\Service\UserInstance;

/**
 * Class CaseRepository
 * @package SORQPAY\Modules\CaseManagement\Repositories
 *
 * @method Cases create(array $attributes)
 */
class CaseRepository extends AbstractSorqpayRepository
{
    /**
     * @return string
     */
    public function model(): string
    {
        return Cases::class;
    }

    /**
     * @param string $id
     *
     * @throws CaseNotFoundException
     * @return Cases
     */
    public function getByld(string $id): Cases
    {
        $case = $this->find($id);
        if (null === $case) {
            throw CaseNotFoundException::byld($id);
        }
    }
}
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        return $case;
    }

    /**
     * @param string $type
     * @return Collection
     */
    public function getByType(string $type): Collection
    {
        return $this->findAllBy('type', $type);
    }

    /**
     * @param UserInterface|AgentInterface $user
     *
     * @return LengthAwarePaginator
     */
    public function getPaginatedByUser(UserInterface $user): LengthAwarePaginator
    {
        $queryBuilder = QueryBuilder::for($this->model());
        if (true === $user instanceof Agent) {
            $queryBuilder
                ->where(
                    [
                        'type' => CaseType::INFORMATION_REQUEST,
                        'business_profile_reference_code' => $user->getReferenceCode()
                    ]
                )
                ->orWhere(
                    [
                        'assigned_by' => $user->getPersonalProfile()->getKey(),
                        'assigned_to' => $user->getPersonalProfile()->getKey()
                    ]
                );
        }

        // if case has incorrect id or manually deleted businessProfile
        // we will have an issue. we need to check that.
        $businessProfiles = BusinessProfile::query()->get();
        $queryBuilder->whereIn('business_profile_id', $businessProfiles->pluck('_id'));

        $queryBuilder->allowedFilters(
            AllowedFilter::custom('business_profile_id', new ExactFilter),
            AllowedFilter::custom('status', new WhereInFilter)->default(CaseStatus::$aemiFilterDefault),
            AllowedFilter::custom('title', new LikeFilter),
            AllowedFilter::custom('case_id', new LikeFilter),
            AllowedFilter::custom('tags', new ArrayFilter),
            AllowedFilter::custom('company_name', new CaseBusinessProfileCompanyNameFilter),
            AllowedFilter::custom('customer_id', new ExactCustomerIdFilter)
        );

        return $queryBuilder
            ->defaultSort('-created_at')
            ->allowedSorts(['created_at', 'deadline'])
            ->paginate();
    }

    /**
     * @param string $businessProfileId
     * @param string $status
     *

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* @return Collection
*/
public function getCasesByBusinessProfileIdWhereStatusNot(string $businessProfileId, string $status):
Collection
{
    $this->applyConditions(
        [
            ['business_profile_id', '=', $businessProfileId],
            ['status', '!=', $status]
        ]
    );

    return $this->get();
}

/**
 * @param UserInterface|AgentInterface $user
 * @param string $type
 *
 * @return LengthAwarePaginator
 */
public function getPaginatedByUserCaseType(UserInterface $user, string $type): LengthAwarePaginator
{
    $queryBuilder = QueryBuilder::for($this->model());
    $queryBuilder
        ->where(
            [
                ['business_profile_id' => $user->getBusinessProfileId(),
                'type' => $type]
            ]
        );
    $queryBuilder->allowedFilters(
        AllowedFilter::custom('business_profile_id', new ExactFilter),
        AllowedFilter::custom('status', new ExactFilter),
        AllowedFilter::custom('title', new LikeFilter),
        AllowedFilter::custom('case_id', new LikeFilter),
        AllowedFilter::custom('tags', new ArrayFilter),
        AllowedFilter::custom('company_name', new CaseBusinessProfileCompanyNameFilter)
    );
    return $queryBuilder
        ->defaultSort('-deadline')
        ->allowedSorts('deadline')
        ->paginate();
}

public function getInfoCasesWithMessagesToUser(UserInterface $user)
{
    return QueryBuilder::for($this->model())
        ->where(
            [
                ['business_profile_id', $user->getBusinessProfileId()],
                ['type', CaseType::INFORMATION_REQUEST],
            ]
        )
        ->orderBy('updated_at', 'desc')
        ->paginate();
}
}

<?php

namespace SORQPAY\Modules\CaseManagement\Models;

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```

use Carbon\Carbon;
use Illuminate\Database\Eloquent\Relations\BelongsTo;
use Illuminate\Database\Eloquent\Relations\HasMany;
use Illuminate\Notifications\Notifiable;
use Illuminate\Support\Collection;
use Illuminate\Support\Str;
use Jenssegers\Mongodb\Eloquent\Model as Eloquent;
use ReflectionException;
use SORQPAY\Modules\CaseManagement\Event\CaseSaved;
use SORQPAY\Modules\CaseManagement\Property\CaseStatus;
use SORQPAY\Modules\CaseManagement\Property\CaseType;
use SORQPAY\Modules\FileManager\Models\Document;
use SORQPAY\Modules\FileManager\Property\DocumentType;
use SORQPAY\Modules\InformationRequest\Models\InformationRequest;
use SORQPAY\Modules\InformationRequest\Models\Messages;
use SORQPAY\Modules\Users\Exception\Profile\BusinessProfileNotFoundException;
use SORQPAY\Modules\Users\Exception\Profile\PersonalProfileNotFoundException;
use SORQPAY\Modules\Users\Models\Profile\BusinessProfile;
use SORQPAY\Modules\Users\Models\Profile\PersonalProfile;
use SORQPAY\System\Property\Connection;
use SORQPAY\System\Property\Table;
use Illuminate\Database\Eloquent\Collection as Eloquent_Collection;

```

```

/**
 * Class Cases
 * @package SORQPAY\Modules\CaseManagement\Models
 *
 * @property string $_id
 * @property string $business_profile_id
 * @property string $business_profile_reference_code
 * @property string $personal_profile_id
 * @property string $case_id
 * @property string $type
 * @property string $status
 * @property string $assigned_to
 * @property string $assigned_by
 * @property string $title
 * @property string $description
 * @property Carbon $deadline
 * @property Collection|array $tags
 * @property string|null $comply_advantage_search_id
 * @property Collection|array $comply_advantage_matches
 * @property array $payload
 * @property string $created_by
 * @property Carbon $created_at
 * @property Carbon $updated_at
 */
class Cases extends Eloquent
{
    use Notifiable;

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/**
 * @var string $connection
 */
protected $connection = Connection::MONGODB;
/**
 * @var string $collection
 */
protected $collection = Table::CASES;
/**
 * @var array $dispatchesEvents
 */

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protected $dispatchesEvents = ['saved' => CaseSaved::class];
/**
 * @var array $attributes
 */
protected $attributes = ['status' => CaseStatus::NEW];
/**
 * @var array $dates
 */
protected $dates = ['deadline'];
/**
 * @var array $fillable
 */
protected $fillable = [
    'business_profile_id',
    'business_profile_reference_code',
    'personal_profile_id',
    'case_id',
    'type',
    'status',
    'assigned_by',
    'assigned_to',
    'title',
    'subject',
    'description',
    'deadline',
    'tags',
    'comply_advantage_search_id',
    'comply_advantage_matches',
    'payload',
    'created_by',
    'created_at',
    'updated_at'
];

protected $appends = ['messagesCount'];

public function getMessagesCountAttribute()
{
    return $this->messages()->count();
}

/**
 * @return Collection|CaseRelation[]
 */
public function getRelatedCases(): Collection
{
    return $this->hasMany(CaseRelation::class, 'belongs_to_case_id')->get();
}

/**
 * @return Collection|Document[]
 */
public function getDocuments(): Collection
{
    return $this->hasMany(Document::class, 'case_id')->where('type', DocumentType::CASE)->get();
}

/**
 * @throws BusinessProfileNotFoundException
 * @return BusinessProfile
 */
public function getBusinessProfile(): BusinessProfile
{

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    /** @var BusinessProfile $businessProfile */
    $businessProfile = $this->belongsTo(BusinessProfile::class, 'business_profile_id')->first();
    if (null === $businessProfile) {
        throw BusinessProfileNotFoundException::byId($this->business_profile_id);
    }

    return $businessProfile;
}

/**
 * @return PersonalProfile|null
 */
public function getPersonalProfile(): ?PersonalProfile
{
    /** @var PersonalProfile|null $personalProfile */
    $personalProfile = $this->belongsTo(PersonalProfile::class, 'personal_profile_id')->first();
    return $personalProfile;
}

/**
 * @param string $type
 * @throws ReflectionException
 */
public function setTypeAttribute(string $type): void
{
    $this->attributes['type'] = CaseType::create($type)->getValue();
}

/**
 * @return PersonalProfile
 */
public function getAssignedBy(): PersonalProfile
{
    /** @var PersonalProfile $personalProfile */
    $personalProfile = $this->belongsTo(PersonalProfile::class, 'assigned_by')->first();
    if (null === $personalProfile) {
        throw PersonalProfileNotFoundException::byId($this->assigned_by);
    }

    return $personalProfile;
}

/**
 * @return null|PersonalProfile
 * @throws \Exception
 */
public function getAssignedTo(): ?PersonalProfile
{
    /** @var PersonalProfile $personalProfile */
    $personalProfile = $this->belongsTo(PersonalProfile::class, 'assigned_to')->first();

    //TODO: change to other exception type
    if ($this->assigned_to == null) {
        throw new \Exception('Unassigned');
    }

    if (null === $personalProfile) {
        throw PersonalProfileNotFoundException::byId($this->assigned_to);
    }

    return $personalProfile;
}

```

```

/**
 * @param array $value
 */
public function setTagsAttribute(array $value = []): void
{
    $tags = Collection::make($value)->transform(
        function (string $tag): string {
            return Str::upper($tag);
        }
    );

    $this->attributes['tags'] = $tags->unique()->toArray();
}

/**
 * @return Collection
 */
public function getTagsAttribute(): Collection
{
    return Collection::make($this->attributes['tags'] ?? []);
}

/**
 * @return Collection
 */
public function getComplyAdvantageMatchesAttribute(): Collection
{
    return Collection::make($this->attributes['comply_advantage_matches'] ?? []);
}

/**
 * @return array
 */
public function getPayloadAttribute(): array
{
    return $this->attributes['payload'] ?? [];
}

/**
 * @throws PersonalProfileNotFoundException
 * @return PersonalProfile
 */
public function getCreator(): PersonalProfile
{
    /** @var PersonalProfile $personalProfile */
    $personalProfile = $this->belongsTo(PersonalProfile::class, 'created_by')->first();
    if (null === $personalProfile) {
        throw PersonalProfileNotFoundException::byId($this->created_by);
    }

    return $personalProfile;
}

public function getSubject(): ?string
{
    return $this->subject;
}

public function setSubject(?string $subject): self
{
    $this->subject = $subject;

    return $this;
}

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}

public function requests(): HasMany
{
    return $this->hasMany(InformationRequest::class, 'request_id');
}

public function messages(): HasMany
{
    return $this->hasMany(Messages::class, 'case_id');
}

public function getId(): string
{
    return $this->_id;
}

public function getStatus(): string
{
    return $this->status;
}

public function setStatus(string $status): self
{
    $this->status = $status;

    return $this;
}

public function setTitle(string $title): self
{
    $this->title = $title;

    return $this;
}

public function getType(): string
{
    return $this->type;
}

public function getMessages(): Eloquent_Collection
{

```