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<?php
declare(strict_types=1);

namespace Tithely\Giving\Infrastructure\Query\Deposit;

use DateTime;
use GuzzleHttp\Client;
use Exception;
use DateTimeImmutable;
use GuzzleHttp\Exception\GuzzleException;
use Cache\Adapter\Common\Exception\CacheException;
use Tithely\Common\Infrastructure\Query\Query;
use Tithely\Giving\Infrastructure\Auth\UserContext;
use Tithely\Giving\Infrastructure\Query\DepositAccount\DepositAccount;
use Tithely\Giving\Infrastructure\Query\DepositAccount\DepositAccountFinder;
use Tithely\Giving\Infrastructure\Query\ExternalFinderAbstract;
use Tithely\Giving\Infrastructure\Query\FinderInterface;
use Tithely\Giving\Infrastructure\Query\Organization\Location;
use Tithely\Giving\Infrastructure\Query\Organization\OrganizationFinder;
use Tithely\Giving\Infrastructure\Query\Payer\Payer;
use Tithely\Giving\Infrastructure\Query\ReconciledDeposit\ReconciledDeposit;
use Tithely\Giving\Infrastructure\Query\ReconciledDeposit\ReconciledDepositFinder;
use Tithely\Giving\Infrastructure\Query\Transfer\Transfer;
use function Functional\first;
use function Functional\map;

class DepositFinder extends ExternalFinderAbstract implements FinderInterface
{
    private DepositAccountFinder $accountFinder;
    protected Client $client;
    private UserContext $context;
    private OrganizationFinder $orgFinder;
    private ReconciledDepositFinder $reconciledFinder;

    /**
     * @param UserContext $context
     * @param OrganizationFinder $orgFinder
     * @param DepositAccountFinder $accountFinder
     * @param ReconciledDepositFinder $reconciledFinder
     * @param Client $client
     */
    public function __construct(
        UserContext $context,
        OrganizationFinder $orgFinder,
        DepositAccountFinder $accountFinder,
        ReconciledDepositFinder $reconciledFinder,
        Client $client
    ) {
        $this->context = $context;
        $this->orgFinder = $orgFinder;
        $this->accountFinder = $accountFinder;
        $this->reconciledFinder = $reconciledFinder;
        $this->client = $client;
    }

    /**
     * Finds Deposit matching the criteria.
     *
     * @param Query $query
     * @return DepositList
     * @throws Exception
     * @throws GuzzleException
     * @todo refactor the reconciled flag usage to honor the flag on the TS response item
     */
    public function find(Query $query): DepositList
    {
        $qs = $this->buildQueryString($query);

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$url = sprintf('/organization/%s/deposits', $this->context->getOrganizationId());

$depositData = [];

while (true) {
    $response = $this->findManyExternally($url, $qs);
    $depositData = array_merge($depositData, $response['data']);
    $total = $response['navigation']['count'];

    if ($query->getLimit() || !$response['navigation']['next']) {
        break;
    }

    $qs['page'] ??= 1;
    $qs['page']++;
}

return $this->deserialize($depositData, $total);
}

/**
 * Get a single Deposit record
 *
 * @param Query $query
 * @return Deposit|null
 * @throws Exception
 * @throws GuzzleException
 */
public function findOne(Query $query): ?Deposit
{
    $qs = $this->buildQueryString($query);
    // $qs['transfers_page_size'] = 2;
    $qs['transfers_page'] = 1;

    $depositTransfersData = [];

    while (true) {
        $url = sprintf(
            '/organization/%s/deposits/%s',
            $this->context->getOrganizationId(),
            $query->getParameter('id')
        );
        $response = $this->findManyExternally($url, $qs);
        $depositData = array_merge($depositTransfersData, $response['transfers']['data']);

        if (!$response['transfers']['navigation']['next']) {
            break;
        }

        $qs['page'] ??= 1;
        $qs['page']++;
    }

    if (empty($depositData)) {
        return null;
    }

    var_dump($depositTransfersData);exit();
    return current(
        $this->deserialize([$depositData], 1)->items()
    );
}

/**
 * Render raw deposit data to a Deposit instance
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* @param array $depositData
* @param int $totalItems
* @return DepositList
* @throws GuzzleException
* @throws CacheException
* @throws Exception
*/
private function deserialize(
    array $depositData,
    int $totalItems
): DepositList {
    $depositAccounts = $this->accountFinder->find(
        Query::build()->with('organization_id', $this->context->getOrganizationId())
    );

    $reconciliations = $this->reconciledFinder->find(
        Query::build()
    );

    $organization = $this->orgFinder->findOne(
        Query::build()->with('id', $this->context->getOrganizationId())
    );

    $deposits = map(
        $depositData,
        function (array $deposit) use ($depositAccounts, $organization, $reconciliations):
Deposit {
            $depositAccount =
                $depositAccounts->getById($deposit['deposit_account_id']) ??
                new DepositAccount(
                    $deposit['deposit_account_id'],
                    null,
                    null,
                    null,
                    null,
                    null,
                    null,
                    null,
                    null
                );

            $location = first(
                $organization->locations(),
                fn (Location $location) => $location->legacyId() == $depositAccount-
>drupalLocId()
            );

            /** @var ReconciledDeposit $reconciled */
            $reconciled = $reconciliations->filter(
                fn (ReconciledDeposit $reconciledDeposit) => $reconciledDeposit-
>depositId() === $deposit['id']
            )->first();

            // @todo supply looped data for transfers to account for deposits with more
            than 100 transfers.
            return new Deposit(
                $deposit['id'],
                $depositAccount,
                is_null($deposit['available_on']) ? null : new DateTime('@' .
$deposit['available_on']),
                is_null($deposit['created']) ? null : new DateTime('@' .
$deposit['created']),
                $deposit['currency'],
                $deposit['description'],
                $deposit['gross_amount'] ?? 0,
                $deposit['net_amount'],
                map(

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$deposit['transfers']['data'],
fn (array $transfer) => new Transfer(
    $transfer['id'],
    new DateTimeImmutable('@' . $transfer['created']),
    $transfer['currency'],
    $transfer['description'] ?: null,
    $transfer['fee'],
    $transfer['gross'],
    $transfer['net'],
    !empty($transfer['payer'])
        ? new Payer(
            $transfer['payer']['id'],
            null,
            $transfer['payer']['drupal_id'],
            $transfer['payer']['email'],
            $transfer['payer']['first_name'],
            $transfer['payer']['last_name'],
            $transfer['payer']['name'],
            $transfer['payer']['people_ids'],
            $transfer['payer']['phone'],
        )
        : null,
    $transfer['payment_category']['id'] ?? null,
    $transfer['payment_category']['product'] ?? null,
    $transfer['payment_category']['drupal_id'] ?? null,
    $transfer['status'],
    $transfer['transfer_type'],
    $transfer['payment_id'],
    $transfer['refund_id'] ?: null,
)
),
$deposit['transaction_ids'] ?? null,
strtolower($deposit['status']),
$location,
$reconciled,
$deposit['refund_count'] ?? null,
$deposit['refund_ids'] ?? null
);
}
);

return new DepositList($deposits, $totalItems);
}

/**
 * Build an array of query params to be sent in the call
 *
 * @param Query $query
 * @return array
 */
public function buildQueryString(Query $query): array
{
    $qs = [];

    if ($query->getCursor()) {
        $qs['page'] = $query->getCursor();
    }

    if ($query->getLimit()) {
        $qs['page_size'] = $query->getLimit();
    }

    if ($query->hasParameter('available_on_before')) {
        $qs['available_on_before'] = $query->getParameter('available_on_before')->getTimestamp();
    }
}

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        if ($query->hasParameter('available_on_after')) {
            $qs['available_on_after'] = $query->getParameter('available_on_after')->getTimestamp();
        }

        if ($query->hasParameter('created_before')) {
            $qs['created_before'] = $query->getParameter('created_before')->getTimestamp();
        }

        if ($query->hasParameter('created_after')) {
            $qs['created_after'] = $query->getParameter('created_after')->getTimestamp();
        }

        if ($query->hasParameter('currency')) {
            $qs['currency'] = $query->getParameter('currency');
        }

        if ($query->hasParameter('deposit_account')) {
            $qs['deposit_account'] = implode(',', $query->getParameter('deposit_account'));
        }

        if ($query->hasParameter('location_id')) {
            $qs['location_id'] = implode(',', $query->getParameter('location_id'));
        }

        if ($query->hasParameter('net_amount')) {
            $qs['net_amount'] = $query->getParameter('net_amount');
        }

        if ($query->hasParameter('status')) {
            $qs['status'] = $query->getParameter('status');
        }

        $orderBy = $query->getParameter('sort') ?? 'created';
        $order = $query->getParameter('order') ?? 'desc';
        $negation = $order === 'desc' ? '-' : '';
        $qs['order_by'] = "{$negation}{$orderBy}";

        return $qs;
    }
}

```