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<?php
/**
 * Manages the downline generation for referrals
 * @package Classifier
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 */
class Model_ReferrerDownline {
    protected $_table;
    protected $_userModel;

    protected function getTable() {
        if (null === $this->_table) {
            require_once Zend_Registry::get('Config')->site->rootPath .
                'App/Model/DbTable/ReferrerDownlines.php';
            $this->_table = new Model_DbTable_ReferrerDownlines;
        }
        return $this->_table;
    }

    public function createDownline($referrer_id,$user_id) {
        unset($row,$success,$upline,$uplineAdded);
        require_once Zend_Registry::get('Config')->site->rootPath . 'App/Model/User.php';

        $table          = $this->getTable();
        $upline          = $this->extractUsersFromLine($this->
            >fetchNextUplineGeneration($referrer_id),1);
        $uplineAdded     = array($referrer_id);

        if(empty($upline)) {
            $row = array(
                'user_id'    => $user_id,
                'referrer_id' => $referrer_id
            );
            return ($table->insert($row)) ? true : false;
        }

        for($i=2;$i<5;$i++) {
            foreach($upline as $line) {
                $line = $this->extractUsersFromLine($this->
                    >fetchNextUplineGeneration($line['referrer_id']),$i);

                foreach($line as $user) {
                    if(!in_array($line['user_id'],$uplineAdded)) {
                        $upline          = array_merge($upline,$line);
                        $uplineAdded[] = $line['user_id'];
                    }
                }
            }
        }

        foreach($upline as $line) {
            $user = $this->_getUserModel()->fetchUser($line['user_id']);
            if($user->role_id < 3) {
                $row = array(
                    'user_id'    => $user_id,
                    'referrer_id' => $user->user_id
                );
                $success[] = ($table->insert($row)) ? true : false;
            } else if($user->role_id == 3 && $user->expires > time()) {
                $row = array(
                    'user_id'    => $user_id,
                    'referrer_id' => $user->user_id
                );
            }
        }
    }
}

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        $success[] = ($table->insert($row)) ? true : false;
    } else {
        if($line['level'] < 3) {
            $row = array(
                'user_id' => $user_id,
                'referrer_id' => $user->user_id
            );
            $success[] = ($table->insert($row)) ? true : false;
        }
    }
}

foreach($success as $value) {
    if($value == false)
        return false;
}

return true;
}

public function extractUsersFromLine(array $line,$level=2) {
    $users = array();
    foreach($line as $row) {
        $users[] = array(
            'user_id' => $row['user_id'],
            'referrer_id' => $row['referrer_id'],
            'level' => $level
        );
    }
    return $users;
}

public function fetchUsersDownlines($user_id) {
    unset($downline,$downlineAdded);
    require_once Zend_Registry::get('Config')->site->rootPath . 'App/Model/User.php';

    $table = $this->getTable();
    $downline = $this->extractUsersFromLine($this->fetchNextDownlineGeneration($user_id),1);
    $downlineAdded = array($referrer_id);

    for($i=2;$i<5;$i++) {
        foreach($downline as $line) {
            $line = $this->extractUsersFromLine($this->fetchNextDownlineGeneration($line['user_id']),$i);

            foreach($line as $user) {
                if(!in_array($user['referrer_id'],$downlineAdded)) {
                    $downline = array_merge($downline,$line);
                    $downlineAdded[] = $user['referrer_id'];
                }
            }
        }
    }

    return $downline;
}

public function fetchUsersUplines($user_id) {
    unset($upline,$uplineAdded);
    require_once Zend_Registry::get('Config')->site->rootPath . 'App/Model/User.php';

    $table = $this->getTable();

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        $upline          = $this->extractUsersFromLine($this-
>fetchNextUplineGeneration($user_id),1);
        $uplineAdded    = array($referrer_id);

    for($i=2;$i<5;$i++) {
        foreach($upline as $line) {
            $line        = $this->extractUsersFromLine($this-
>fetchNextUplineGeneration($line['referrer_id']),$i);

            foreach($line as $user) {
                if(!in_array($user['user_id'],$uplineAdded)) {
                    $upline          = array_merge($upline,$line);
                    $uplineAdded[]   = $user['user_id'];
                }
            }
        }
    }

    return $upline;
}

public function fetchNextDownlineGeneration($referrer_id) {
    $table = $this->getTable();
    $select = $table->select()->where('referrer_id = ?', $referrer_id);
    $downlines = $table->fetchAll($select);

    if(!is_object($downlines))
        return false;

    return $downlines->toArray();
}

public function fetchNextUplineGeneration($user_id) {
    $table = $this->getTable();
    $select = $table->select()->where('user_id = ?', $user_id);
    $uplines = $table->fetchAll($select);

    if(!is_object($uplines))
        return false;

    return $uplines->toArray();
}

public function fetchUsersTotalDownlines($user_id) {
    return count($this->fetchUsersDownlines($user_id));
}

protected function _getUserModel() {
    if (null === $this->_userModel) {
        require_once Zend_Registry::get('Config')->site->rootPath . 'App/Model/User.php';
        $this->_userModel = new Model_User();
    }
    return $this->_userModel;
}
}

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