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const async = require('async');
const config = require('.././config');
const mcache = require('memory-cache');
const request = require('requestretry');
const moment = require('moment');
const { clear, show, remove } = require('.././services/mcache');
const parser = require('xml2js').parseString;
const { Order } = require('.././orders/model');
const logger = require('.././services/logger');
const responseHandler = require('.././services/response');
const _ = require('lodash');
const { toggleEnv, voidSACTSales } = require('./utility');
const { confirmEmail, smtpMail } = require('./emailer');
var mongoose = require('mongoose');
require('mongoose-long')(mongoose);
var Long = mongoose.Types.Long;

exports.confirmWOT = (data, callback) => {
  let res = data.res
  let req = data.req
  let deviceId = '02310';
  if(!(data.receipt_number.indexOf('OSPM') > -1)){
    deviceId = '02313';
  }
  let ticketing_url = config.ticketing.wot.url + "/OnlineWebService.asmx?
WSDL="
  let wot_confirm_xml = '<?xml version="1.0" encoding="utf-8"?
><soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap12="http://
www.w3.org/2003/05/soap-envelope"><soap12:Body><ConfirmSales
xmlns="http://SACT.WOTWebService.WebServices/"><ConfirmIn><Password>' +
  config.ticketing.wot.password + '</Password><TransactionID>' +
  data.receipt_number + '</TransactionID><Pincode>' + data.wot_pin + '</
Pincode><Name>' + data.name + '</Name><Email>' + data.email + '</
Email><TelNo>' + data.contact + '</TelNo><BookingFee><ItemCode>0</
ItemCode><Quantity>0</Quantity></BookingFee><PaymentID>' +
  data.transaction_id + '</PaymentID><PaymentType>0</
PaymentType><CreditCard>' + data.card_digits + '</CreditCard><DeviceID>'
+ deviceId + '</DeviceID></ConfirmIn></ConfirmSales></soap12:Body></
soap12:Envelope>'
  request.post({
    url: ticketing_url,
    body: wot_confirm_xml,
    agentOptions: {

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    rejectUnauthorized: false
  },
  headers: { 'Content-Type': 'text/xml' }
}, function(err, response, body) {
  if(!err) {
    let sact_req = response.request
    parser(body, { explicitArray: false }, function(err, results) {
      if(!err) {
        let confirm_response = results['soap:Envelope']['soap:Body']
        ['ConfirmSalesResponse']['ConfirmSalesResult']
        if(confirm_response['ResponseCode']['Status'] === 'Success' ||
confirm_response['ResponseCode']['Status'] === 'LastCallSuccessful') {
          logger.log('sact', req.headers.correlation_id, null, 'info', { url:
sact_req.uri.href, method: sact_req.method, headers: sact_req.headers, body:
sact_req.body }, response.statusCode, response.body)
          callback(null, confirm_response)
        } else { // failed response code from sact
          logger.log('sact', req.headers.correlation_id, null, 'error', { url:
sact_req.uri.href, method: sact_req.method, headers: sact_req.headers, body:
sact_req.body }, response.statusCode, response.body)
          console.log(err)
          // responseHandler.serverError(res)
          callback(err)
        }
      } else { // parsing of xml failed
        logger.log('sact', req.headers.correlation_id, null, 'error', { url:
sact_req.uri.href, method: sact_req.method, headers: sact_req.headers, body:
sact_req.body }, response.statusCode, err)
        // responseHandler.partnerErrors(res, err)
        callback(err)
      }
    })
  } else { // sact request errors
    logger.log('sact', req.headers.correlation_id, null, 'error', { url: ticketing_url,
method: 'POST', headers: {}, body: {} }, 500, err)
    // responseHandler.requestErrors(res, err)
    callback(err)
  }
})
}

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exports.confirmTickets = (data, callback) => {
  let res = data.res
  let req = data.req
  let deviceId = '02310';
  if(!(data.receipt_number.indexOf('OSPM') > -1)){

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    deviceId = '02313';
}

let xml = "<?xml version='1.0' encoding='utf-8'?><soap12:Envelope
xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance' xmlns:xsd='http://
www.w3.org/2001/XMLSchema' xmlns:soap12='http://www.w3.org/2003/05/
soap-envelope'><soap12:Body><confirmSales xmlns='http://
SACT.SentosaOnlineWebService.WebServices/'><cfmln>" + data.tickets +
"<PaymentID>" + data.receipt_number + "</PaymentID><CreditCard>" +
data.card_digits + "</CreditCard><DeviceID>" + deviceId + "</
DeviceID><ReservationID>" + data.reservation_id + "</
ReservationID><Name>" + data.name + "</Name><Email>" + data.email + "</
Email><TelNo>" + data.contact + "</TelNo><NRIC></NRIC><Password>" +
config.ticketing.dry.password + "</Password><TransactionID>" +
data.receipt_number + "</
TransactionID><RequestStatus><Status>Successful</Status><Message></
Message></RequestStatus></cfmln></confirmSales></soap12:Body></
soap12:Envelope>";
let ticketing_url = config.ticketing.dry.url + "/OnlineWebService.asmx?WSDL="
request.post({
  url: ticketing_url,
  body: xml,
  agentOptions: {
    rejectUnauthorized: false
  },
  headers: { 'Content-Type': 'text/xml' }
}, function(err, response, body) {
  if(!err) {
    let sact_req = response.request
    parser(body, { explicitArray: false }, function(err, results) {
      if(!err) {
        let confirm_response = results['soap:Envelope']['soap:Body']
        ['confirmSalesResponse']['confirmSalesResult']
        if(confirm_response['RequestStatus']['Status'] === 'Successful' ||
confirm_response['RequestStatus']['Status'] === 'LastCallSuccessful') {
          // console.log(results['soap:Envelope']['soap:Body'])
          logger.log('sact', req.headers.correlation_id, null, 'info', { url:
sact_req.uri.href, method: sact_req.method, headers: sact_req.headers, body:
sact_req.body }, response.statusCode, response.body)
          callback(null, confirm_response)
        } else { // sact confirmation failed
          console.log(results['soap:Envelope']['soap:Body']
['confirmSalesResponse'])
          console.log(' ----- ' + data.reservation_id)
          logger.log('sact', req.headers.correlation_id, null, 'error', { url:
sact_req.uri.href, method: sact_req.method, headers: sact_req.headers, body:

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sact_req.body }, response.statusCode, response.body)
    responseHandler.serverError(res)
    callback(err)
  }
  } else { // error parsing response xml or invalid response
    logger.log('sact', req.headers.correlation_id, null, 'error', { url:
sact_req.uri.href, method: sact_req.method, headers: sact_req.headers, body:
sact_req.body }, response.statusCode, err)
    responseHandler.partnerErrors(res, err)
    callback(err)
  }
})
} else { // sact request error
  logger.log('sact', req.headers.correlation_id, null, 'error', { url: ticketing_url,
method: 'POST', headers: {}, body: {} }, 500, err)
  responseHandler.requestErrors(res, err)
  callback(err)
}
})
}

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exports.processPartialConfirm = (res, req, reservation_id, wirecard, wot_query)
=> {
  let query = {$set:{'status': 'confirmed', 'transaction_id':
req.body.transaction_id, 'issues': 'Partial' }}
  if(wirecard) {
    query = {$set:{'status': 'confirmed', 'transaction_id': req.body.transaction_id,
'card_digits': req.body.digits, 'issues': 'Partial' }}
  }
  Order.findOneAndUpdate(wot_query, query, { __v: 0, _id: 0, reservation_id: 0 },
function(err, updated_order) {
    let attraction = updated_order.attractions[0]
    request.get({
      url: toggleEnv(config.env) + attraction.id
    }, function(err, response, attr_body) {
      if(!err) {
        attr_body = JSON.parse(attr_body)
        attraction.title = attr_body.data.directory.title
        attraction.thumbnail = attr_body.data.directory.thumbnail
        attraction.redemption_info = attr_body.data.directory.redemption_info
        updated_order.attractions[0] = attraction
        updated_order.issues = 'Partial'
        updated_order = updated_order.toObject()
        updated_order['date_time'] =
moment(updated_order.date_time).format("MMM Do YY, h:mm a")
        Order.findOneAndUpdate(wot_query, {$set: {'attractions': attraction}},

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{ __v: 0, _id: 0, confirmed: 0}, function(err, latest_order) {
  if(!err) {
    if(updated_order.user_id !== null) {
      // re cache user's orders
      let key = '/ticketing/orders/user/' + updated_order.user_id
      let cachedBody = mcache.get(key)
      if(cachedBody) { // exists, clear
        remove(key)
      }
    }
    responseHandler.partialConfirmation(res, updated_order)
  } else {
    // send emailer for failed confirmation

    voidWOTSales(req.body.transaction_id, updated_order.pincod.wot,
(err, response) => {
      responseHandler.confirmationUnsuccessful(res, { order_id:
updated_order.order_id })
    })
  }
})
} else {
  // send emailer for failed confirmation

  voidWOTSales(req.body.transaction_id, updated_order.pincod.wot, (err,
response) => {
    responseHandler.confirmationUnsuccessful(res, { order_id:
updated_order.order_id })
  })
}
})
}
}

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exports.processConfirmedTickets = (res, req, reservation_id, wirecard, order,
confirm_tickets_response, email_type, callback) => {
  if(typeof confirm_tickets_response !== 'undefined') {
    let pincod = confirm_tickets_response['PinCode']
    let pin_expiry = moment().add({months:3}).format("MMM Do YY")
    req.body.pincod = pincod
    const query = { 'reservation_id': Long.fromString(reservation_id.toString()) }
    let update = { $set: { 'pincod.pin': pincod, 'pincod.expiry': pin_expiry,
'status': 'reserved', 'transaction_id': req.body.transaction_id, 'card_digits':
String(req.body.digits), 'bank_approval_code': req.body.bank_approval_code,
'payment_type': req.body.payment_type } }
    if(wirecard) {

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    update = {$set: {'pincode.pin': pincode, 'pincode.expiry': pin_expiry, 'status':
'reserved', 'transaction_id': req.body.transaction_id, 'card_digits':
String(req.body.digits), 'bank_approval_code': req.body.bank_approval_code,
'payment_type': req.body.payment_type }}
  }
  // update order with latest confirmed details
  Order.findOneAndUpdate(query, update, { __v: 0, _id: 0, reservation_id: 0,
status: 0, transaction_id: 0 }, function(err, confirmed_order) {
    if(!err) {
      // retrieve rest of attraction details via API calls
      confirmed_order.pincode.pin = pincode
      confirmed_order.pincode.expiry = pin_expiry
      let order_attractions = confirmed_order.attractions
      async.forEachOf(order_attractions, function(attraction, i, callback) {
        let attraction_id = attraction.id
        request.get({
          url: toggleEnv(config.env) + attraction_id
        }, function(err, response, attr_body) {
          if(!err) {
            attr_body = JSON.parse(attr_body)
            // check item code mapping if != null
            attraction.title = attr_body.data.directory.title
            attraction.thumbnail = attr_body.data.directory.thumbnail
            if(attr_body.data.directory.item_code_mapping !== null) {
              // fun-pass case; check for item-code-specific redemption_info and
important_notes
              let code = attraction.tickets[0].types[0].code
              // need to check for undefined - item code does not exist in
directories
              if(typeof attr_body['data']['directory']['item_code_mapping'][code] !
== 'undefined') {
                attraction.redemption_info = attr_body['data']['directory']
['item_code_mapping'][code]['redemption_info']
                attraction.important_notes = attr_body['data']['directory']
['item_code_mapping'][code]['important_notes']
              } else {
                attraction.redemption_info = ""
                attraction.important_notes = ""
              }
            } else {
              attraction.redemption_info = attr_body.data.directory.redemption_info
              attraction.important_notes =
attr_body.data.directory.important_notes
            }
          } else {
            voidSACTSales(reservation_id, (sact_err, response) => {

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        logger.log('http', res.req.headers.correlation_id, 'async foreach
attraction details error', 'error', res.req, 200, err)
        callback(err)
    })
}
callback()
})
}, function(err) { // after looping
    if(!err) {
        confirmed_order.attractions = order_attractions
        confirmed_order = confirmed_order.toObject()
        confirmed_order['date_time'] =
moment(confirmed_order.date_time).format("MMM Do YY, h:mm a")
        // re-update db with attraction details
        Order.findOneAndUpdate(query, {$set: {'attractions':
confirmed_order.attractions, 'status': 'confirmed' }}, { __v: 0, _id: 0, status: 0},
function(err, latest_order) {
            if(!err) {
                // re-cache user's orders
                let key = '/ticketing/orders/user/' + order.user_id
                let cachedBody = mcache.get(key)
                if(cachedBody) { // exists, clear
                    remove(key)
                }
                logger.log('cosmodb', res.req.headers.correlation_id, null, 'info',
query, null, order);
                //confirmEmail(latest_order.email, confirmed_order, latest_order,
email_type)
                smtpMail(latest_order.email, confirmed_order, latest_order,
email_type)
                // logger.sales(latest_order.email,
JSON.stringify(latest_order.attractions), latest_order.contact,
JSON.stringify(latest_order.pincodes), 'confirmed', latest_order.payment_mode)
                callback(null, confirmed_order)
            } else { // error updating latest orders
                voidSACTSales(reservation_id, (err, response) => {
                    logger.log('cosmodb', res.req.headers.correlation_id, null, 'error',
query, null, err);
                    responseHandler.confirmationUnsuccessful(res, { order_id:
confirmed_order.order_id })
                })
                console.log("error updating latest orders")
                console.log(err)
            }
        })
    } else {

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        console.log("async for each issue")
        logger.log('http', res.req.headers.correlation_id, 'async foreach
attraction details error', 'error', res.req, 200, err)
        responseHandler.confirmationUnsuccessful(res, { order_id:
order.order_id })
    }
    })
    } else { // updating of latest confirmed details failed
        voidSACTSales(reservation_id, (err, response) => {
            logger.log('cosmodb', res.req.headers.correlation_id, null, 'error', query,
null, err);
            responseHandler.confirmationUnsuccessful(res, { order_id:
confirmed_order.order_id })
        })
        console.log("error updating confirmed details")
        console.log(err)
    }
    })
} else {
    console.log("error")
}
}

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async function ticketRetryStrategy(err, response, body) {
    let sact_req = response.request
    if(err) {
        return err
    } else {
        await parser(body, { explicitArray: false }, function(err2, results) {
            if(err2) {
                return err2
            } else {
                return false
            }
        })
    }
}

```