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/*
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 */
package com.maan.eway.master.service.impl;

import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Calendar;
import java.util.Comparator;
import java.util.Date;
import java.util.GregorianCalendar;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import java.util.function.Function;
import java.util.stream.Collectors;

import javax.persistence.EntityManager;
import javax.persistence.PersistenceContext;
import javax.persistence.TypedQuery;
import javax.persistence.criteria.CriteriaBuilder;
import javax.persistence.criteria.CriteriaDelete;
import javax.persistence.criteria.CriteriaQuery;
import javax.persistence.criteria.Order;
import javax.persistence.criteria.Predicate;
import javax.persistence.criteria.Root;
import javax.persistence.criteria.Subquery;

import org.apache.commons.lang3.StringUtils;
import org.apache.logging.log4j.LogManager;
import org.apache.logging.log4j.Logger;
import org.dozer.DozerBeanMapper;
import org.modelmapper.ModelMapper;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import org.springframework.transaction.annotation.Transactional;

import com.google.gson.Gson;

import com.maan.eway.master.req.CurrencyMasterGetAllReq;
import com.maan.eway.master.req.CurrencyMasterGetReq;
import com.maan.eway.master.req.CurrencyMasterSaveReq;
import com.maan.eway.master.req.OccupationChangeStatusReq;
import com.maan.eway.master.req.OccupationMasterGetAllReq;
import com.maan.eway.master.req.OccupationMasterGetReq;
import com.maan.eway.master.req.OccupationMasterSaveReq;
import com.maan.eway.master.res.CurrencyMasterRes;

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import com.maan.eway.master.res.ExchangeMasterGetRes;
import com.maan.eway.master.res.OccupationMasterRes;
import com.maan.eway.master.service.CurrencyMasterService;
import com.maan.eway.master.service.OccupationMasterService;
import com.maan.eway.bean.AcExecutiveMaster;
import com.maan.eway.bean.BranchMaster;
import com.maan.eway.bean.CurrencyMaster;
import com.maan.eway.bean.ExchangeMaster;
import com.maan.eway.bean.OccupationMaster;
import com.maan.eway.bean.ProductMaster;
import com.maan.eway.bean.StateMaster;
import com.maan.eway.error.Error;
import com.maan.eway.repository.CurrencyMasterRepository;
import com.maan.eway.repository.OccupationMasterRepository;
import com.maan.eway.res.DropDownRes;
import com.maan.eway.res.SuccessRes;
import com.maan.eway.service.impl.BasicValidationService;
/**
 * <h2>CurrencyMasterServiceimpl</h2>
 */
@Service
@Transactional
public class OccupationMasterServiceImpl implements OccupationMasterService {

    @PersistenceContext
    private EntityManager em;

    @Autowired
    private OccupationMasterRepository repo;

    @Autowired
    private BasicValidationService basicvalidateService;

    Gson gson = new Gson();

    private Logger log=LogManager.getLogger(OccupationMasterServiceImpl.class);

    @Override
    public List<Error> validateOccupation(OccupationMasterSaveReq req) {
        List<Error> errorList = new ArrayList<Error>();

        try {

            if (StringUtils.isBlank(req.getOccupationName())) {
                errorList.add(new Error("02", "OccupationName", "Please Select
OccupationName"));
            }else if (req.getOccupationName().length() > 100){
                errorList.add(new Error("02","OccupationName", "Please Enter
OccupationName 100 Characters"));
            }
        }
    }

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        }else if (StringUtils.isBlank(req.getOccupationId()) &&
StringUtils.isNotBlank(req.getInsuranceId()) &&
StringUtils.isNotBlank(req.getBranchCode())) {
            List<OccupationMaster> OccupationList =
getOccupationNameExistDetails(req.getOccupationName() , req.getInsuranceId() ,
req.getBranchCode());
            if (OccupationList.size()>0 ) {
                errorList.add(new Error("01", "OccupationName", "This
Occupation Name Already Exist "));
            }
        }else if (StringUtils.isNotBlank(req.getOccupationId()) &&
StringUtils.isNotBlank(req.getInsuranceId()) &&
StringUtils.isNotBlank(req.getBranchCode())) {
            List<OccupationMaster> OccupationList =
getOccupationNameExistDetails(req.getOccupationName() , req.getInsuranceId() ,
req.getBranchCode());

            if (OccupationList.size()>0 && (!
req.getOccupationId().equalsIgnoreCase(OccupationList.get(0).getOccupationId().toString())
)) {
                errorList.add(new Error("01", "OccupationName", "This
Occupation Name Already Exist "));
            }

        }

        if (StringUtils.isBlank(req.getInsuranceId())) {
            errorList.add(new Error("02", "InsuranceId", "Please Enter
InsuranceId"));
        }

        if (StringUtils.isBlank(req.getBranchCode())) {
            errorList.add(new Error("02", "BranchCode", "Please Select
BranchCode"));
        }
        /*
        if (StringUtils.isBlank(req.getOccupationNameAr())) {
            errorList.add(new Error("03", "OccupationNameAr", "Please Select
OccupationNameAr"));
        }else if (req.getOccupationNameAr().length() > 100){
            errorList.add(new Error("03","OccupationNameAr", "Please Enter
OccupationNameAr 100 Characters"));
        } */

        if (StringUtils.isBlank(req.getRemarks())) {
            errorList.add(new Error("04", "Remarks", "Please Select Remarks "));
        }else if (req.getRemarks().length() > 100){
            errorList.add(new Error("04","Remarks", "Please Enter Remarks
within 100 Characters"));
        }
    }

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        // Date Validation
        Calendar cal = new GregorianCalendar();
        Date today = new Date();
        cal.setTime(today);cal.add(Calendar.DAY_OF_MONTH, -1);;
        today = cal.getTime();
        if (req.getEffectiveDateStart() == null ||
StringUtils.isBlank(req.getEffectiveDateStart().toString())) {
            errorList.add(new Error("05", "EffectiveDateStart", "Please Enter
Effective Date Start"));

        } else if (req.getEffectiveDateStart().before(today)) {
            errorList.add(new Error("05", "EffectiveDateStart", "Please Enter
Effective Date Start as Future Date"));
        }
        //Status Validation
        if (StringUtils.isBlank(req.getStatus())) {
            errorList.add(new Error("06", "Status", "Please Enter Status"));
        } else if (req.getStatus().length() > 1) {
            errorList.add(new Error("06", "Status", "Enter Status in 1 Character
Only"));
        } else
        if(!("Y".equalsIgnoreCase(req.getStatus())||"N".equalsIgnoreCase(req.getStatus()) ||
"R".equalsIgnoreCase(req.getStatus())) {
            errorList.add(new Error("06", "Status", "Enter Status in Y or N or R
Only"));
        }

        if (StringUtils.isBlank(req.getCoreAppCode())) {
            errorList.add(new Error("07", "CoreAppCode", "Please Select
CoreAppCode"));
        } else if (req.getCoreAppCode().length() > 20){
            errorList.add(new Error("07","CoreAppCode", "Please Enter
CoreAppCode within 20 Characters"));
        }
        if (StringUtils.isBlank(req.getRegulatoryCode())) {
            errorList.add(new Error("08", "RegulatoryCode", "Please Select
RegulatoryCode"));
        } else if (req.getRegulatoryCode().length() > 20){
            errorList.add(new Error("08","RegulatoryCode", "Please Enter
RegulatoryCode within 20 Characters"));
        }
        if (StringUtils.isBlank(req.getCreatedBy())) {
            errorList.add(new Error("09", "CreatedBy", "Please Select
CreatedBy"));
        } else if (req.getCreatedBy().length() > 100){
            errorList.add(new Error("09","CreatedBy", "Please Enter CreatedBy
within 100 Characters"));
        }
    } catch (Exception e) {

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        log.error(e);
        e.printStackTrace();
    }
    return errorList;
}

public List<OccupationMaster> getOccupationNameExistDetails(String occupationName ,
String InsuranceId , String branchCode) {
    List<OccupationMaster> list = new ArrayList<OccupationMaster>();
    try {
        Date today = new Date();
        // Find Latest Record
        CriteriaBuilder cb = em.getCriteriaBuilder();
        CriteriaQuery<OccupationMaster> query =
cb.createQuery(OccupationMaster.class);

        // Find All
        Root<OccupationMaster> b = query.from(OccupationMaster.class);

        // Select
        query.select(b);

        // Effective Date Max Filter
        Subquery<Long> amendId = query.subquery(Long.class);
        Root<OccupationMaster> ocpm1 = amendId.from(OccupationMaster.class);
        amendId.select(cb.max(ocpm1.get("amendId")));
        Predicate a1 = cb.equal(ocpm1.get("occupationId"), b.get("occupationId"));
        Predicate a2 = cb.equal(ocpm1.get("companyId"), b.get("companyId"));
        Predicate a3 = cb.equal(ocpm1.get("branchCode"), b.get("branchCode"));
        Predicate a4 = cb.lessThanOrEqualTo(ocpm1.get("effectiveDateStart"),
today);
        Predicate a5 = cb.greaterThanOrEqualTo(ocpm1.get("effectiveDateEnd"),
today);
        amendId.where(a1,a2,a3,a4,a5);

        Predicate n1 = cb.equal(b.get("amendId"), amendId);
        Predicate n2 = cb.equal(cb.lower( b.get("occupationName")),
occupationName.toLowerCase());
        Predicate n3 = cb.equal(b.get("companyId"),InsuranceId);
        Predicate n4 = cb.equal(b.get("branchCode"), branchCode);
        Predicate n5 = cb.equal(b.get("branchCode"), "99999");
        Predicate n6 = cb.or(n4,n5);
        query.where(n1,n2,n3,n6);

        // Get Result
        TypedQuery<OccupationMaster> result = em.createQuery(query);
        list = result.getResultList();

    } catch (Exception e) {
        e.printStackTrace();
    }
}

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        log.info(e.getMessage());
    }
    return list;
}

@Override
public SuccessRes insertOccupation(OccupationMasterSaveReq req) {
    SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy");
    SuccessRes res = new SuccessRes();
    OccupationMaster saveData = new OccupationMaster();
    List<OccupationMaster> list = new ArrayList<OccupationMaster>();
    DozerBeanMapper dozerMapper = new DozerBeanMapper();
    try {
        Integer amendId=0;
        Date startDate = req.getEffectiveDateStart() ;
        String end = "31/12/2050";
        Date endDate = sdf.parse(end);
        long MILLIS_IN_A_DAY = 1000 * 60 * 60 * 24;
        Date oldEndDate = new Date(req.getEffectiveDateStart().getTime() -
MILLIS_IN_A_DAY);
        Date entryDate = null ;
        String createdBy = "" ;

        Integer occupationId = 0 ;
        if(StringUtils.isBlank(req.getOccupationId())) {
            // Save
            Integer totalCount = getMasterTableCount( req.getInsuranceId() ,
req.getBranchCode());
            occupationId = totalCount+1 ;
            entryDate = new Date();
            createdBy = req.getCreatedBy();
            res.setResponse("Saved Successfully");
            res.setSuccessId(occupationId.toString());
        }
        else {
            // Update
            occupationId = Integer.valueOf(req.getOccupationId());
            CriteriaBuilder cb = em.getCriteriaBuilder();
            CriteriaQuery<OccupationMaster> query =
cb.createQuery(OccupationMaster.class);
            //Find all
            Root<OccupationMaster> b = query.from(OccupationMaster.class);
            //Select
            query.select(b);
            //Effective Date Max Filter
            Subquery<Long> effectiveDate = query.subquery(Long.class);
            //
            Root<OccupationMaster> ocpm1 =
effectiveDate.from(OccupationMaster.class);
            //
            effectiveDate.select(ocpm1.get("effectiveDateStart"));

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// Predicate a1 = cb.equal(ocpm1.get("occupationId"),
b.get("occupationId"));
// Predicate a2 =
cb.lessThanOrEqualTo(ocpm1.get("effectiveDateStart"),startDate);
//
// effectiveDate.where(a1,a2);

// Order By
List<Order> orderList = new ArrayList<Order>();
orderList.add(cb.desc(b.get("effectiveDateStart")));

// Where
// Predicate n1 = cb.equal(b.get("effectiveDateStart"), effectiveDate);
Predicate n2 = cb.equal(b.get("occupationId"), req.getOccupationId());
Predicate n3 = cb.equal(b.get("companyId"), req.getInsuranceId());
Predicate n4 = cb.equal(b.get("branchCode"), req.getBranchCode());

query.where(n2,n3,n4).orderBy(orderList);

// Get Result
TypedQuery<OccupationMaster> result = em.createQuery(query);
int limit = 0 , offset = 2 ;
result.setFirstResult(limit * offset);
result.setMaxResults(offset);
list = result.getResultList();

if(list.size()>0) {
    Date beforeOneDay = new Date(new Date().getTime() -
MILLIS_IN_A_DAY);

    if ( list.get(0).getEffectiveDateStart().before(beforeOneDay) )
    {
        amendId = list.get(0).getAmendId() + 1 ;
        entryDate = new Date() ;
        createdBy = req.getCreatedBy();
        OccupationMaster lastRecord = list.get(0);
        lastRecord.setEffectiveDateEnd(oldEndDate);
        repo.saveAndFlush(lastRecord);

    } else {
        amendId = list.get(0).getAmendId() ;
        entryDate = list.get(0).getEntryDate() ;
        createdBy = list.get(0).getCreatedBy();
        saveData = list.get(0) ;
        if (list.size()>1 ) {
            OccupationMaster lastRecord = list.get(1);
            lastRecord.setEffectiveDateEnd(oldEndDate);
            repo.saveAndFlush(lastRecord);
        }
    }
}

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        }
    }
    res.setResponse("Updated Successfully");
    res.setSuccessId(occupationId.toString());
}
dozerMapper.map(req, saveData);
saveData.setOccupationId(occupationId);
saveData.setEffectiveDateStart(startDate);
saveData.setEffectiveDateEnd(endDate);
saveData.setCreatedBy(createdBy);
saveData.setStatus(req.getStatus());
saveData.setCompanyId(req.getInsuranceId());
saveData.setEntryDate(entryDate);
saveData.setUpdatedDate(new Date());
saveData.setUpdatedBy(req.getCreatedBy());
saveData.setAmendId(amendId);
saveData.setCoreAppcode(req.getCoreAppCode());
repo.saveAndFlush(saveData);
log.info("Saved Details is --> " + json.toJson(saveData));

}
catch (Exception e) {
    e.printStackTrace();
    log.info("Exception is --> " + e.getMessage());
    return null;
}
return res;
}

```

```

public Integer getMasterTableCount(String companyId , String branchCode) {
    Integer data =0;
    try {
        List<OccupationMaster> list = new ArrayList<OccupationMaster>();
        // Find Latest Record
        CriteriaBuilder cb = em.getCriteriaBuilder();
        CriteriaQuery<OccupationMaster> query =
cb.createQuery(OccupationMaster.class);
        // Find all
        Root<OccupationMaster> b = query.from(OccupationMaster.class);
        //Select
        query.select(b);

        //Effective Date Max Filter
        Subquery<Long> effectiveDate = query.subquery(Long.class);
        Root<OccupationMaster> ocpm1 =
effectiveDate.from(OccupationMaster.class);
        effectiveDate.select(cb.max(ocpm1.get("effectiveDateStart")));
        Predicate a1 = cb.equal(ocpm1.get("occupationId"),
b.get("occupationId"));
    }
}

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        Predicate a2 = cb.equal(ocpm1.get("companyId"),
b.get("companyId"));
        Predicate a3 = cb.equal(ocpm1.get("branchCode"),
b.get("branchCode"));
        effectiveDate.where(a1,a2,a3);

        // Order By
        List<Order> orderList = new ArrayList<Order>();
        orderList.add(cb.desc(b.get("occupationId")));

        Predicate n1 = cb.equal(b.get("effectiveDateStart"), effectiveDate);
        Predicate n2 = cb.equal(b.get("companyId"), companyId);
        Predicate n3 = cb.equal(b.get("branchCode"), branchCode);
        Predicate n4 = cb.equal(b.get("branchCode"), "99999");
        Predicate n5 = cb.or(n3,n4);
        query.where(n1,n2,n5).orderBy(orderList);

        // Get Result
        TypedQuery<OccupationMaster> result = em.createQuery(query);
        int limit = 0 , offset = 1 ;
        result.setFirstResult(limit * offset);
        result.setMaxResults(offset);
        list = result.getResultList();
        data = list.size() > 0 ? list.get(0).getOccupationId() : 0 ;
    }
    catch(Exception e) {
        e.printStackTrace();
        log.info(e.getMessage());
    }
    return data;
}

```

```

@Override
public List<OccupationMasterRes> getallOccupation(OccupationMasterGetAllReq req) {
    List<OccupationMasterRes> resList = new ArrayList<OccupationMasterRes>();
    DozerBeanMapper mapper = new DozerBeanMapper();
    try {
        List<OccupationMaster> list = new ArrayList<OccupationMaster>();

        // Find Latest Record
        CriteriaBuilder cb = em.getCriteriaBuilder();
        CriteriaQuery<OccupationMaster> query =
cb.createQuery(OccupationMaster.class);

        // Find All
        Root<OccupationMaster> b = query.from(OccupationMaster.class);
    }
}

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// Select
query.select(b);

// Amend ID Max Filter
Subquery<Long> amendId = query.subquery(Long.class);
Root<OccupationMaster> ocpm1 = amendId.from(OccupationMaster.class);
amendId.select(cb.max(ocpm1.get("amendId")));
Predicate a1 = cb.equal(ocpm1.get("occupationId"), b.get("occupationId"));
Predicate a2 = cb.equal(ocpm1.get("companyId"), b.get("companyId"));
Predicate a3 = cb.equal(ocpm1.get("branchCode"), b.get("branchCode"));

amendId.where(a1, a2, a3);

// Order By
List<Order> orderList = new ArrayList<Order>();
orderList.add(cb.asc(b.get("branchCode")));

// Where
Predicate n1 = cb.equal(b.get("amendId"), amendId);
Predicate n2 = cb.equal(b.get("companyId"), req.getInsuranceId());
Predicate n3 = cb.equal(b.get("branchCode"), req.getBranchCode());
Predicate n4 = cb.equal(b.get("branchCode"), "99999");
Predicate n5 = cb.or(n3, n4);
query.where(n1, n2, n5).orderBy(orderList);

// Get Result
TypedQuery<OccupationMaster> result = em.createQuery(query);
list = result.getResultList();
list = list.stream().filter(distinctByKey(o ->
Arrays.asList(o.getOccupationId()))).collect(Collectors.toList());
list.sort(Comparator.comparing(OccupationMaster :: getOccupationName ));
// Map
for (OccupationMaster data : list) {
    OccupationMasterRes res = new OccupationMasterRes();

    res = mapper.map(data, OccupationMasterRes.class);
    res.setCoreAppCode(data.getCoreAppcode());

    resList.add(res);
}

} catch (Exception e) {
    e.printStackTrace();
    log.info(e.getMessage());
    return null;
}

return resList;
}

```

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private static <T> java.util.function.Predicate<T>
distinctByKey(java.util.function.Function<? super T, ?> keyExtractor) {
    Map<Object, Boolean> seen = new ConcurrentHashMap<>();
    return t -> seen.putIfAbsent(keyExtractor.apply(t), Boolean.TRUE) == null;
}
@Override
public List<OccupationMasterRes> getActiveOccupation(OccupationMasterGetAllReq req)
{
    List<OccupationMasterRes> resList = new ArrayList<OccupationMasterRes>();
    DozerBeanMapper mapper = new DozerBeanMapper();
    try {
        List<OccupationMaster> list = new ArrayList<OccupationMaster>();

        // Find Latest Record
        CriteriaBuilder cb = em.getCriteriaBuilder();
        CriteriaQuery<OccupationMaster> query =
cb.createQuery(OccupationMaster.class);

        // Find All
        Root<OccupationMaster> b = query.from(OccupationMaster.class);

        // Select
        query.select(b);

        // Amend ID Max Filter
        Subquery<Long> amendId = query.subquery(Long.class);
        Root<OccupationMaster> ocpm1 = amendId.from(OccupationMaster.class);
        amendId.select(cb.max(ocpm1.get("amendId")));
        Predicate a1 = cb.equal(ocpm1.get("occupationId"), b.get("occupationId"));
        Predicate a2 = cb.equal(ocpm1.get("companyId"), b.get("companyId"));
        Predicate a3 = cb.equal(ocpm1.get("branchCode"), b.get("branchCode"));

        amendId.where(a1, a2, a3);

        // Order By
        List<Order> orderList = new ArrayList<Order>();
        orderList.add(cb.asc(b.get("branchCode")));

        // Where
        Predicate n1 = cb.equal(b.get("amendId"), amendId);
        Predicate n2 = cb.equal(b.get("companyId"), req.getInsuranceId());
        Predicate n3 = cb.equal(b.get("branchCode"), req.getBranchCode());
        Predicate n4 = cb.equal(b.get("status"), "Y");
        Predicate n5 = cb.equal(b.get("branchCode"), "99999");
        Predicate n6 = cb.or(n3, n5);
        query.where(n1, n2, n4, n6).orderBy(orderList);

        // Get Result
        TypedQuery<OccupationMaster> result = em.createQuery(query);

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        list = result.getResultList();
        list = list.stream().filter(distinctByKey(o ->
Arrays.asList(o.getOccupationId()))).collect(Collectors.toList());
        list.sort(Comparator.comparing(OccupationMaster :: getOccupationName ));
        // Map
        for (OccupationMaster data : list) {
            OccupationMasterRes res = new OccupationMasterRes();

            res = mapper.map(data, OccupationMasterRes.class);
            res.setCoreAppCode(data.getCoreAppcode());

            resList.add(res);
        }

    } catch (Exception e) {
        e.printStackTrace();
        log.info(e.getMessage());
        return null;
    }

    return resList;
}

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@Override
public OccupationMasterRes getByOccupationId(OccupationMasterGetReq req) {
    OccupationMasterRes res = new OccupationMasterRes();
    DozerBeanMapper mapper = new DozerBeanMapper();
    try {
        Date today = new Date();
        Calendar cal = new GregorianCalendar();
        cal.setTime(today);
        cal.set(Calendar.HOUR_OF_DAY, 23);
        cal.set(Calendar.MINUTE, 1);
        today = cal.getTime();

        List<OccupationMaster> list = new ArrayList<OccupationMaster>();

        // Find Latest Record
        CriteriaBuilder cb = em.getCriteriaBuilder();
        CriteriaQuery<OccupationMaster> query =
cb.createQuery(OccupationMaster.class);

        // Find All
        Root<OccupationMaster> b = query.from(OccupationMaster.class);

        // Select
        query.select(b);

        // Amend ID Max Filter

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Subquery<Long> amendId = query.subquery(Long.class);
Root<OccupationMaster> ocpm1 = amendId.from(OccupationMaster.class);
amendId.select(cb.max(ocpm1.get("amendId")));
Predicate a1 = cb.equal(ocpm1.get("occupationId"), b.get("occupationId"));
Predicate a2 = cb.equal(ocpm1.get("companyId"), b.get("companyId"));
Predicate a3 = cb.equal(ocpm1.get("branchCode"), b.get("branchCode"));

amendId.where(a1, a2, a3);

// Order By
List<Order> orderList = new ArrayList<Order>();
orderList.add(cb.asc(b.get("branchCode")));

// Where
Predicate n1 = cb.equal(b.get("amendId"), amendId);
Predicate n2 = cb.equal(b.get("companyId"), req.getInsuranceId());
Predicate n3 = cb.equal(b.get("branchCode"), req.getBranchCode());
Predicate n4 = cb.equal(b.get("occupationId"), req.getOccupationId());
Predicate n6 = cb.equal(b.get("branchCode"), "99999");
Predicate n7 = cb.or(n3, n6);
query.where(n1, n2, n4, n7).orderBy(orderList);

// Get Result
TypedQuery<OccupationMaster> result = em.createQuery(query);

list = result.getResultList();
list = list.stream().filter(distinctByKey(o ->
Arrays.asList(o.getOccupationId()))).collect(Collectors.toList());
list.sort(Comparator.comparing(OccupationMaster :: getOccupationName ));
res = mapper.map(list.get(0), OccupationMasterRes.class);
res.setOccupationId(list.get(0).getOccupationId().toString());
res.setEntryDate(list.get(0).getEntryDate());
res.setEffectiveDateStart(list.get(0).getEffectiveDateStart());
res.setEffectiveDateEnd(list.get(0).getEffectiveDateEnd());
res.setCoreAppCode(list.get(0).getCoreAppcode());
} catch (Exception e) {
e.printStackTrace();
log.info("Exception is ---> " + e.getMessage());
return null;
}
return res;
}
/*
@Override
public List<DropDownRes> getOccupationMasterDropdown() {
List<DropDownRes> resList = new ArrayList<DropDownRes>();
try {
Date today = new Date();
Calendar cal = new GregorianCalendar();
cal.setTime(today);

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cal.set(Calendar.HOUR_OF_DAY, 23);
cal.set(Calendar.MINUTE, 1);
today = cal.getTime();
cal.set(Calendar.HOUR_OF_DAY, 1);
cal.set(Calendar.MINUTE, 1);
Date todayEnd = cal.getTime();

// Criteria
CriteriaBuilder cb = em.getCriteriaBuilder();
CriteriaQuery<OccupationMaster> query= cb.createQuery(OccupationMaster.class);
List<OccupationMaster> list = new ArrayList<OccupationMaster>();
// Find All
Root<OccupationMaster> c = query.from(OccupationMaster.class);
//Select
query.select(c);
// Order By
List<Order> orderList = new ArrayList<Order>();
orderList.add(cb.asc(c.get("occupationName")));

// Effective Date Start Max Filter
Subquery<Long> effectiveDate = query.subquery(Long.class);
Root<OccupationMaster> ocpm1 = effectiveDate.from(OccupationMaster.class);
effectiveDate.select(cb.max(ocpm1.get("effectiveDateStart")));
Predicate a1 = cb.equal(c.get("occupationId"),ocpm1.get("occupationId"));
Predicate a2 = cb.lessThanOrEqualTo(ocpm1.get("effectiveDateStart"), today);
effectiveDate.where(a1,a2);
// Effective Date End Max Filter
Subquery<Long> effectiveDate2 = query.subquery(Long.class);
Root<OccupationMaster> ocpm2 = effectiveDate2.from(OccupationMaster.class);
effectiveDate2.select(cb.max(ocpm2.get("effectiveDateEnd")));
Predicate a3 = cb.equal(c.get("occupationId"),ocpm2.get("occupationId"));
Predicate a4 = cb.greaterThanOrEqualTo(ocpm2.get("effectiveDateEnd"), todayEnd);
effectiveDate2.where(a3,a4);
// Where
Predicate n1 = cb.equal(c.get("status"),"Y");
Predicate n2 = cb.equal(c.get("effectiveDateStart"),effectiveDate);
Predicate n3 = cb.equal(c.get("effectiveDateEnd"),effectiveDate2);
query.where(n1,n2,n3).orderBy(orderList);
// Get Result
TypedQuery<OccupationMaster> result = em.createQuery(query);
list = result.getResultList();
for (OccupationMaster data : list) {
    // Response
    DropDownRes res = new DropDownRes();
    res.setCode(data.getOccupationId());
    res.setCodeDesc(data.getOccupationName());
    resList.add(res);
}
}
catch(Exception e) {

```

```

        e.printStackTrace();
        log.info("Exception is --->" + e.getMessage());
        return null;
    }
    return resList;
}

*/
@Override
public SuccessRes changeStatusOfOccupation(OccupationChangeStatusReq req) {
    SuccessRes res = new SuccessRes();
    DozerBeanMapper dozerMapper = new DozerBeanMapper();
    try {
        List<OccupationMaster> list = new ArrayList<OccupationMaster>();

        // Find Latest Record
        CriteriaBuilder cb = em.getCriteriaBuilder();
        CriteriaQuery<OccupationMaster> query =
cb.createQuery(OccupationMaster.class);
        // Find all
        Root<OccupationMaster> b = query.from(OccupationMaster.class);
        //Select
        query.select(b);

        // Amend ID Max Filter
        Subquery<Long> amendId = query.subquery(Long.class);
        Root<OccupationMaster> ocpm1 = amendId.from(OccupationMaster.class);
        amendId.select(cb.max(ocpm1.get("amendId")));
        Predicate a1 = cb.equal(ocpm1.get("occupationId"), b.get("occupationId"));
        Predicate a2 = cb.equal(ocpm1.get("companyId"), b.get("companyId"));
        Predicate a3 = cb.equal(ocpm1.get("branchCode"), b.get("branchCode"));

        amendId.where(a1, a2, a3);

        // Order By
        List<Order> orderList = new ArrayList<Order>();
        orderList.add(cb.asc(b.get("branchCode")));

        // Where
        Predicate n1 = cb.equal(b.get("amendId"), amendId);
        Predicate n2 = cb.equal(b.get("companyId"), req.getInsuranceId());
        Predicate n3 = cb.equal(b.get("branchCode"), req.getBranchCode());
        Predicate n4 = cb.equal(b.get("occupationId"), req.getOccupationId());
        Predicate n5 = cb.equal(b.get("branchCode"), "99999");
        Predicate n6 = cb.or(n3, n5);

        query.where(n1, n2, n4, n6).orderBy(orderList);

        // Get Result
        TypedQuery<OccupationMaster> result = em.createQuery(query);
        list = result.getResultList();
    }
}

```

```

OccupationMaster updateRecord = list.get(0);
if( req.getBranchCode().equalsIgnoreCase(updateRecord.getBranchCode()))
{
    updateRecord.setStatus(req.getStatus());
    repo.save(updateRecord);
} else {
    OccupationMaster saveNew = new OccupationMaster();
    dozerMapper.map(updateRecord,saveNew);
    saveNew.setBranchCode(req.getBranchCode());
    saveNew.setStatus(req.getStatus());
    repo.save(saveNew);
}

// Perform Update
res.setResponse("Status Changed");
res.setSuccessId(req.getOccupationId());
}
catch (Exception e) {
    e.printStackTrace();
    log.info("Exception is --> " + e.getMessage());
    return null;
}
return res;
}

```

@Override

```

public List<DropDownRes> getAcExecutivesDropdown(AcExecutiveDropDownReq req) {
    List<DropDownRes> resList = new ArrayList<DropDownRes>();
    try {
        Date today = new Date();
        Calendar cal = new GregorianCalendar();
        cal.setTime(today);
        cal.set(Calendar.HOUR_OF_DAY, 23);;
        cal.set(Calendar.MINUTE, 1);
        today = cal.getTime();
        cal.set(Calendar.HOUR_OF_DAY, 1);
        cal.set(Calendar.MINUTE, 1);
        Date todayEnd = cal.getTime();

        // Criteria
        CriteriaBuilder cb = em.getCriteriaBuilder();
        CriteriaQuery<AcExecutiveMaster> query=
cb.createQuery(AcExecutiveMaster.class);
        List<AcExecutiveMaster> list = new ArrayList<AcExecutiveMaster>();
        // Find All
        Root<AcExecutiveMaster> c = query.from(AcExecutiveMaster.class);
        //Select
        query.select(c);
        // Order By

```



```

        List<Order> orderList = new ArrayList<Order>();
        orderList.add(cb.desc(c.get("effectiveDateStart"))));

        // Effective Date Start Max Filter
        Subquery<Long> effectiveDate = query.subquery(Long.class);
        Root<AcExecutiveMaster> ocpm1 =
effectiveDate.from(AcExecutiveMaster.class);
        effectiveDate.select(cb.max(ocpm1.get("effectiveDateStart")));
        Predicate a1 = cb.equal(c.get("acExecutiveId"),ocpm1.get("acExecutiveId"));
        Predicate a2 = cb.lessThanOrEqual(ocpm1.get("effectiveDateStart"),
today);

        effectiveDate.where(a1,a2);
        // Effective Date End Max Filter
        Subquery<Long> effectiveDate2 = query.subquery(Long.class);
        Root<AcExecutiveMaster> ocpm2 =
effectiveDate2.from(AcExecutiveMaster.class);
        effectiveDate2.select(cb.max(ocpm2.get("effectiveDateEnd")));
        Predicate a3 = cb.equal(c.get("acExecutiveId"),ocpm2.get("acExecutiveId"));
        Predicate a4 = cb.greaterThanOrEqual(ocpm2.get("effectiveDateEnd"),
todayEnd);

        effectiveDate2.where(a3,a4);
        // Where
        Predicate n1 = cb.equal(c.get("status"),"Y");
        Predicate n2 = cb.equal(c.get("effectiveDateStart"),effectiveDate);
        Predicate n3 = cb.equal(c.get("effectiveDateEnd"),effectiveDate2);
        Predicate n4 = cb.equal(c.get("oaCode"),req.getOaCode());
        Predicate n5 = cb.notEqual(c.get("acExecutiveId"),"1");
        query.where(n1,n2,n3,n4,n5).orderBy(orderList);
        // Get Result
        TypedQuery<AcExecutiveMaster> result = em.createQuery(query);
        list = result.getResultList();
        for (AcExecutiveMaster data : list) {
            // Response
            DropDownRes res = new DropDownRes();
            res.setCode(data.getAcExecutiveId().toString());
            res.setCodeDesc(data.getAcExecutiveName());
            resList.add(res);
        }
    }

    catch(Exception e) {
        e.printStackTrace();
        log.info("Exception is --->" + e.getMessage());
        return null;
    }
    return resList;
}
}

```