

DATE CONCEPTS

Data Format Condition

```
Calendar cal = Calendar.getInstance();
cal.add(Calendar.DATE, -1);
Date yesterday = cal.getTime();
SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy");
Date a=sdf.parse(req.getEffectivedate());
if (req.getEffectivedate() == null ||
StringUtils.isBlank(req.getEffectivedate().toString()))
{
errors.add(new Error("09", "Effective Date", "Please Enter Effective Date"));
}
else if(a.before(yesterday)) {
errors.add(new Error("09", "EffectiveDate", "Please Enter Future Date as
EffectiveDate"));
}
else if(! req.getEffectivedate().matches("[0-9]{2}/[0-9]{2}/[0-9]{4}") )
{
errors.add(new Error("09","EffectiveDate","Effective Date format should be
dd/MM/yyyy only allowed . Example :- 15/12/2020" ));
}
```

Auto Increment Running Code and Auto Entry Date

CRM CITY MASTER

```
SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy");
String pattern = "#####0";
DecimalFormat decimalFormat = new DecimalFormat(pattern);
```

//////// Validation

@Override

```
public List<Error> validateCrmCityMaster(CrmCityMasterSaveReq req) {  
    // TODO Auto-generated method stub  
    List<Error> errors = new ArrayList<Error>();  
    try {  
        if( StringUtils.isNotBlank(req.getCitycode())) {  
            if ( ! StringUtils.isNumeric(req.getCitycode()) )  
            {  
                errors.add(new Error("01", "City Code", "Please Enter Valid City Code "));  
            }  
        }  
        if(req.getCityname()==null || StringUtils.isBlank(req.getCityname()))  
        {  
            errors.add(new Error("02", "City Name", "Please Enter City Name"));  
        }  
        else if(req.getCityname().length()>70)  
        {  
            errors.add(new Error("02", "City Name", "Please Enter City Name within 70 Characters"));  
        }  
        if(req.getStatecode()==null || StringUtils.isBlank(req.getStatecode()))  
        {  
            errors.add(new Error("03", "State Code", "Please Enter State Code"));  
        }  
  
        if(req.getStatus()==null || StringUtils.isBlank(req.getStatus()))  
        {  
            errors.add(new Error("04", "Status", "Please Enter Status"));  
        }  
        else if(req.getStatus().length()>1)  
        {  
            errors.add(new Error("04", "Status", "Please Enter Status within 1 Character"));  
        }  
        if(req.getCoreAppCode()==null || StringUtils.isBlank(req.getCoreAppCode()))  
        {  
            errors.add(new Error("05", "CoreAppCode", "Please Enter CoreAppCode"));  
        }  
        else if(req.getCoreAppCode().length()>50)  
        {  
            errors.add(new Error("05", "CoreAppCode", "Please Enter CoreAppCode within 50 Characters"));  
        }  
    }  
}
```

```

}
if(req.getRemarks()==null || StringUtils.isBlank(req.getRemarks()))
{
errors.add(new Error("06", "Remarks", "Please Enter Remarks"));
}
else if(req.getRemarks().length()>200)
{
errors.add(new Error("06", "Remarks", "Please Enter Remarks within 200
Characters"));
}
Calendar cal = Calendar.getInstance();
cal.add(Calendar.DATE, -1);
Date yesterday = cal.getTime();
Date a= sdf.parse(req.getEffectivedate());
if (req.getEffectivedate() == null ||
StringUtils.isBlank(req.getEffectivedate().toString()))
{
errors.add(new Error("07", "Effective Date", "Please Enter Effective Date"));
}
else if(a.before(yesterday)) {
errors.add(new Error("07", "EffectiveDate", "Please Enter Future Date as
EffectiveDate"));
}
else if(! req.getEffectivedate().matches("[0-9]{2})/([0-9]{2})/([0-9]{4})" )
{
errors.add(new Error("07", "EffectiveDate", "Effective Date format should be
dd/MM/yyyy only allowed . Example :- 15/12/2020" ));
}
Date endDate =sdf.parse(req.getEnddate());
Date effectiveDate = sdf.parse(req.getEffectivedate());
if (req.getEnddate() == null || StringUtils.isBlank(req.getEnddate().toString()))
{
errors.add(new Error("08", "End Date", "Please Enter End Date"));
}
else if(endDate.before(effectiveDate))
{
errors.add(new Error("08", "End Date", "End Date not before Effective Date"));
}
else if(! req.getEnddate().matches("[0-9]{2})/([0-9]{2})/([0-9]{4})" )
{
errors.add(new Error("08", "End Date", "End Date format should be
dd/MM/yyyy only allowed . Example :- 15/12/2020" ));
}
}

```

```

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

```

//////// Save

```

@Override
@Transactional
public SuccessRes saveCrmCityMaster(CrmCityMasterSaveReq req) {
// TODO Auto-generated method stub
SuccessRes res = new SuccessRes();
CrmCityMaster entity = new CrmCityMaster();
SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy");
Date entryDate = null;
Double cityCode = 0D;

try
{
if(StringUtils.isBlank(req.getCitycode()) ) {
CrmCityMaster crmcitymaster =
repository.findTop1ByOrderByCitycodeDesc();
cityCode =Double.valueOf(crmcitymaster.getCitycode()+1 );
entryDate = new Date();
res.setResponse("Saved Successfully");

}
else {
//Update
cityCode =Double.valueOf(req.getCitycode());
CrmCityMaster data =
repository.findTop1ByCitycodeOrderByEffectiveDateDesc(cityCode);
entryDate = data.getEntryDate();

res.setResponse("Updated Successfully");
}

entity.setCitycode(Double.valueOf(cityCode));
entity.setCityname(req.getCityname());

```

```

entity.setCoreAppCode(req.getCoreAppCode());
entity.setEffectiveDate(sdf.parse(req.getEffectivedate()));
entity.setEndDate(sdf.parse(req.getEnddate()));
entity.setStateCode(Double.valueOf(req.getStatecode()));
entity.setStatus(req.getStatus());
entity.setRemarks(req.getRemarks());
entity.setEntryDate(entryDate);

```

```

repository.save(entity);
log.info("Saved Details is ---> " + json.toJson(entity));
}
catch(Exception ex) {
log.error(ex);
return null;
}
return res;
}

```

```

/////Get All
@Override

```

```

public List<CrmCityMasterRes> getAllCrmCityMaster() {
// TODO Auto-generated method stub
List<CrmCityMasterRes> resList = new ArrayList<CrmCityMasterRes>();
ModelMapper mapper = new ModelMapper();
try {
SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy");
List<CrmCityMaster> crmcitymaster = repository.OrderByCitycodeDesc();
for(CrmCityMaster data: crmcitymaster)
{
CrmCityMasterRes res = new CrmCityMasterRes();
res.setCoreAppCode(data.getCoreAppCode());
res.setEffectivedate(data.getEffectiveDate()==null?"":sdf.format(data.getEffectiveDate()));
res.setEnddate(data.getEffectiveDate()==null?"":sdf.format(data.getEndDate()));
res.setEntrydate(data.getEffectiveDate()==null?"":sdf.format(data.getEntryDate()));
res.setRemarks(data.getRemarks());
res.setStatus(data.getStatus());
res.setStateCode(decimalFormat.format(data.getStatecode()));
res.setCitycode(decimalFormat.format(data.getCitycode()));
res.setCityname(data.getCityname());
resList.add(res);
}
}
}

```

```

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

}

```

////////// Get

```

@Override
public CrmCityMasterRes getCrmCityMaster(String citycode) {
    CrmCityMasterRes res = new CrmCityMasterRes();
    ModelMapper mapper = new ModelMapper();
    try {
        //Map
        CrmCityMaster data = repository.findByCitycode(Double.valueOf(citycode));
        //res = mapper.map(data,CrmCityMasterRes.class);
        res.setEffectivedate(data.getEffectiveDate()==null?"":sdf.format(data.getEffectiveDate()));
        res.setEnddate(data.getEffectiveDate()==null?"":sdf.format(data.getEndDate()));
        res.setEntrydate(data.getEffectiveDate()==null?"":sdf.format(data.getEntryDate()));
        res.setCitycode(decimalFormat.format(data.getCitycode()));
        res.setStateCode(decimalFormat.format(data.getStatecode()));
        res.setRemarks(data.getRemarks());
        res.setStatus(data.getStatus());
        res.setCityname(data.getCityname());
        res.setCoreAppCode(data.getCoreAppCode());

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

```

```
}  
}
```

CRM STATE MASTER

```
SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy");  
/////Decimal to String Convert/////  
String pattern = "#####0";  
DecimalFormat decimalFormat = new DecimalFormat(pattern);  
  
@Override  
public List<Error> validateCrmStateMaster(CrmStateMasterSaveReq req) {  
// TODO Auto-generated method stub  
  
List<Error> errors = new ArrayList<Error>();  
try {  
if( StringUtils.isNotBlank(req.getStatecode())) {  
if ( ! StringUtils.isNumeric(req.getStatecode()) )  
{  
errors.add(new Error("01", "State Code", "Please Enter Valid State Code "));  
}  
}  
if(req.getStateName()== null || StringUtils.isBlank(req.getStateName()))  
{  
errors.add(new Error("02", "State Name", "Please Enter State Name"));  
}  
else if(req.getStateName().length()>200)  
{  
errors.add(new Error("02", "State Name", "Please Enter State Name within 200  
Characters"));  
}  
if(req.getStatus()== null || StringUtils.isBlank(req.getStatus()))  
{  
errors.add(new Error("03", "Status", "Please Enter Status"));  
}  
else if(req.getStatus().length()>1)  
{  
errors.add(new Error("03", "Status", "Please Enter Status within 1 Character"));  
}
```

```

Calendar cal = Calendar.getInstance();
cal.add(Calendar.DATE, -1);
Date yesterday = cal.getTime();
SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy");
Date a=      sdf.parse(req.getEffectivedate());
if (req.getEffectivedate() == null ||
StringUtils.isBlank(req.getEffectivedate().toString()))
{
errors.add(new Error("04", "Effective Date", "Please Enter Effective Date"));
}
else if (a.before(yesterday)) {
errors.add(new Error("04", "EffectiveDate", "Please Enter Future Date as
EffectiveDate"));
}
else if (! req.getEffectivedate().matches("[0-9]{2}/[0-9]{2}/[0-9]{4}") )
{
errors.add(new Error("04", "EffectiveDate", "Effective Date format should be
dd/MM/yyyy only allowed . Example :- 15/12/2020" ));
}
Date endDate =sdf.parse(req.getEnddate());
Date effectiveDate = sdf.parse(req.getEffectivedate());
if (req.getEnddate() == null || StringUtils.isBlank(req.getEnddate().toString()))
{
errors.add(new Error("05", "End Date", "Please Enter End Date"));
}
else if (endDate.before(effectiveDate))
{
errors.add(new Error("05", "End Date", "End Date not before Effective Date"));
}
else if (! req.getEnddate().matches("[0-9]{2}/[0-9]{2}/[0-9]{4}") )
{
errors.add(new Error("05", "End Date", "End Date format should be
dd/MM/yyyy only allowed . Example :- 15/12/2020" ));
}
if (req.getCoreappcode() == null || StringUtils.isBlank(req.getCoreappcode()))
{
errors.add(new Error("06", "Core App Code", "Please Enter Core App Code"));
}
else if (req.getCoreappcode().length() > 50)
{
errors.add(new Error("06", "Core App Code", "Please Enter Core App Code
within 50 Characters"));
}

```



```

}
if(req.getRemarks()== null || StringUtils.isBlank(req.getRemarks()))
{
errors.add(new Error("07", "Remarks", "Please Enter Remarks"));
}
else if(req.getRemarks().length()>200)
{
errors.add(new Error("07", "Remarks", "Please Enter Remarks within 200
Characters"));
}
} catch(Exception e) {
e.printStackTrace();
log.info("Exception is --->" + e.getMessage());
return errors;
}
return errors;
}

```

```

@Override
@Transactional
public SuccessRes saveCrmStateMaster(CrmStateMasterSaveReq req) {
SuccessRes res = new SuccessRes();
CrmStateMaster entity = new CrmStateMaster();
SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy");
Date entryDate = null;
Double stateCode = 0D;
try
{
if(StringUtils.isBlank(req.getStatecode()) ) {
CrmStateMaster crmstatemaster =
repository.findTop1ByOrderByStatecodeDesc();
stateCode =Double.valueOf(crmstatemaster.getStatecode()+1 );
entryDate = new Date();
res.setResponse("Saved Successfully");

}
else {
//Update
stateCode =Double.valueOf( req.getStatecode());
CrmStateMaster data =
repository.findTop1ByStatecodeOrderByEffectiveDateDesc(stateCode);
entryDate = data.getEntryDate();
}
}

```

```

res.setResponse("Updated Successfully");
}
// Primary
entity.setStateCode(Double.valueOf(stateCode));

entity.setCoreAppcode(req.getCoreAppcode());
entity.setEffectiveDate(sdf.parse(req.getEffectivedate()));
entity.setStatename(req.getStatename());
entity.setEndDate(sdf.parse(req.getEnddate()));
entity.setRemarks(req.getRemarks());
entity.setStatus(req.getStatus());
entity.setEntryDate(entryDate);
repository.save(entity);
log.info("Saved Details is ---> " + json.toJson(entity));
}
catch(Exception ex) {
log.error(ex);
return null;
}
return res;
}

```

```

@Override
public List<CrmStateMasterRes> getAllCrmStateMaster() {

{
List<CrmStateMasterRes> resList = new ArrayList<CrmStateMasterRes>();
// ModelMapper mapper = new ModelMapper();
try {
List<CrmStateMaster> crmstatemaster = repository.OrderByStatecodeDesc();
for(CrmStateMaster data: crmstatemaster)
{
CrmStateMasterRes res = new CrmStateMasterRes();

res.setCoreAppcode(data.getCoreAppcode());
res.setEffectivedate(sdf.format(data.getEffectiveDate()));
res.setEnddate(sdf.format(data.getEndDate()));
res.setEntrydate(sdf.format(data.getEntryDate()));
res.setRemarks(data.getRemarks());
res.setStatename(data.getStatename());
res.setStatus(data.getStatus());

```

```

res.setStateCode(decimalFormat.format(data.getStatecode()));
resList.add(res);
}
}
catch(Exception e)
{
e.printStackTrace();
log.info("Exception is ---> " + e.getMessage());
return null;
}
return resList;

}
}

```

```

@Override
public CrmStateMasterRes getCrmStateMaster(String statecode) {
CrmStateMasterRes res = new CrmStateMasterRes();
ModelMapper mapper = new ModelMapper();
try {
//Map
CrmStateMaster data = repository.findByStatecode(Double.valueOf(statecode));
res = mapper.map(data,CrmStateMasterRes.class);
res.setEffectivedate(sdf.format(data.getEffectiveDate()));
res.setEnddate(sdf.format(data.getEffectiveDate()));
res.setEntrydate(sdf.format(data.getEntryDate()));
res.setStateCode(decimalFormat.format(data.getStatecode()));

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

}
}

```