

```
/*  
This skill with fetch tasks due in both CRM and Projects and any CRM deals closing  
this week. It will then construct a report of these items, grouping things by application  
and whether they are due today or later in the week.
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```
*/
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```
result = Map();
```

```
//-----Find CRM details of current user and establish the ID of the user as the  
variable "CRMid"
```

```
userEmail = user.getJSON("email");
```

```
CRMmap = Map();
```

```
CRMusers = zoho.crm.invokeConnector("crm.getusers",CRMmap);
```

```
CRMuserlist = CRMusers.getJSON("response").getJSON("users").toJSONList();
```

```
for each user in CRMuserlist
```

```
{
```

```
    if(user.getJSON("email") == userEmail)
```

```
    {
```

```
        CRMid = user.getJSON("id");
```

```
        firstName = user.getJSON("first_name");
```

```
        lastName = user.getJSON("last_name");
```

```
    }
```

```
}
```

```
/*-----\Find user's CRM tasks due today &
```

```
this
```

```
week/////-----*/
```

```
-----*/
```

```
-----*/
```

```
//-----Find all the tasks the current user owns
```

```
tasks = zoho.crm.searchRecords("Activities","Owner.id>equals:" + CRMid);
```

```
taskList = tasks.toJSONList();
```

```
thisFriday = zoho.currentdate.toStartOfWeek().addDay(5);
```

```
thisMonday = zoho.currentdate.toStartOfWeek();
```

```
//-----Counts the tasks in order to print a grammatically correct message. These  
variables will store our count and allow the message to respond to single items versus  
lists of items. They will also separate tasks due today from tasks due the rest of the  
week.
```

```
todayTasks = "";
```

```
CRMtasksTodayCount = 0;
```

```

CRMOtherTasks = "";
otherCount = 0;
//-----Find the tasks the user owns and are also due this week
for each task in taskList
{
    //-----Find all the tasks due today
    if(task.getJSON("Due_Date") != null && task.getJSON("Due_Date").toDate() ==
zoho.currentdate && task.getJSON("Status") != "Completed")
    {
        todaysTasks = todaysTasks + " " + task.getJSON("Subject") + " and";
        CRMTasksTodayCount = CRMTasksTodayCount + 1;
    }
    //-----Find other the tasks due this week
    if(task.getJSON("Due_Date") != null && task.getJSON("Due_Date").toDate() >=
thisMonday && task.getJSON("Due_Date").toDate() <= thisFriday &&
task.getJSON("Status") != "Completed" && task.getJSON("Due_Date").toDate() !=
zoho.currentdate)
    {
        CRMOtherTasks = CRMOtherTasks + " " + task.getJSON("Subject") + "
and";
        otherCount = otherCount + 1;
    }
}
//-----Configure CRM tasks message
CRMTaskmessage = "";
todaysTasks = todaysTasks.removeLastOccurence(" and");
CRMOtherTasks = CRMOtherTasks.removeLastOccurence(" and");
if(CRMTasksTodayCount == 0)
{
    CRMTaskmessage = CRMTaskmessage + "You have no tasks due today.";
}
else if(CRMTasksTodayCount == 1)
{
    CRMTaskmessage = CRMTaskmessage + "Your task due today is" +
todaysTasks + ".";
}
else

```

```

{
    CRMTaskmessage = CRMTaskmessage + "Your tasks due today are" +
todaysTasks + ".";
}
//-----
if(otherCount == 0)
{
    CRMTaskmessage = CRMTaskmessage + " You don't have any other tasks due
this week. ";
}
else if(otherCount == 1)
{
    CRMTaskmessage = CRMTaskmessage + " Your other task this week is" +
CRMOtherTasks + ". ";
}
else
{
    CRMTaskmessage = CRMTaskmessage + " Your other tasks this week are" +
CRMOtherTasks + ". ";
}
if(CRMTasksTodayCount == 0 && otherCount == 0)
{
    CRMTaskmessage = CRMTaskmessage.remove("You have no tasks due today.
You don't have any other tasks due this week.");
}
/*-----
-----\\Find CRM deals closing today & this
week/////-----
-----*/
dealCode = zoho.crm.searchRecords("deals","Owner.id>equals:" + CRMid).toJSONList();
weekDeals = "";
todayDeals = "";
DealsTodayCount = 0;
DealsWeekCount = 0;
//-----Finds user deals closing this week
for each deal in dealCode
{

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    if(deal.getJSON("Deal_Name") != null && deal.getJSON("Closing_Date") != null)
    {
        dealName = deal.getJSON("Deal_Name");
        endDate = deal.getJSON("Closing_Date").toString("MMMMM d");
        if(deal.getJSON("Closing_Date").toDate() >= thisMonday &&
deal.getJSON("Closing_Date").toDate() <= thisFriday &&
deal.getJSON("Closing_Date").toDate() != zoho.currentdate)
        {
            weekDeals = weekDeals + dealName + " which will close on " +
endDate + " and ";
            DealsWeekCount = DealsWeekCount + 1;
        }
        if(deal.getJSON("Closing_Date").toDate() = zoho.currentdate)
        {
            todayDeals = todayDeals + dealName + " and ";
            DealsTodayCount = DealsTodayCount + 1;
        }
    }
}
//-----Construct the Deals message
todayDeals = todayDeals.removeLastOccurence(" and ");
weekDeals = weekDeals.removeLastOccurence(" and ");
dealsMessage = "";
if(DealsTodayCount == 0)
{
    dealsMessage = dealsMessage + " You have no deals closing today.";
}
else if(DealsTodayCount == 1)
{
    dealsMessage = dealsMessage + "Your deal, " + todayDeals + " is closing today.";
}
else
{
    dealsMessage = dealsMessage + "Your deals closing today are " + todayDeals +
".";
}
//-----

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```

if(DealsWeekCount == 0)
{
    dealsMessage = dealsMessage + " You don't have any other deals closing this
week. ";
}
else if(DealsWeekCount == 1)
{
    dealsMessage = dealsMessage + " Your other deal closing this week is " +
weekDeals + ". ";
}
else
{
    dealsMessage = dealsMessage + " Your other deals closing this week are " +
weekDeals + ". ";
}
}
if(DealsTodayCount == 0 && DealsWeekCount == 0)
{
    dealsMessage = "You have no deals closing this week. ";
}
}
/*-----
-----\\Find Projects tasks today & this
week/////-----
-----*/
/*
This action will go into a users Projects account and find their tasks due for the day
and the week.
*/
//-----Find Project details of current user
portalName = zoho.projects.getPortals().getJSON("portals").getJSON("name");
projectIDs = zoho.projects.getProjectDetails(portalName).toJSONList();
//-----Gets the tasks due in Zoho Projects that are owned by the user and ending
this week
ProjectsWeekTasks = "";
ProjectsTasksWeekCount = 0;
ProjectsTasksTodayCount = 0;
ProjectsTodayTasks = "";
for each project in projectIDs

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{
    projectNum = project.getJSON("id").toLong();
    tasks2 = zoho.projects.getRecords(portalName,projectNum,"tasks");
    if(tasks2.size() > 0)
    {
        //call to get records from the tasks module of whatever user is logged in
        ProjectsTaskList = tasks2.getJSON("tasks").toJSONList();
        //turns the JSON data into a list that can be parsed in the loop pulling info
for each task
        userID = zoho.projects.getPortals().getJSON("login_id");
        //-----Find all the tasks the current user owns
        projectName = project.getJSON("name");
        for each task in ProjectsTaskList
        {
            if(task.getJSON("status").getJSON("name") != null &&
task.getJSON("end_date") != null)
            {
                getStatus = task.getJSON("status").getJSON("name");
                getOwner =
task.getJSON("details").getJSON("owners").getJSON("id");
                getDate = task.getJSON("end_date").toDate();
                //gets user's open tasks
                if(getStatus != "Closed" && userID == getOwner)
                {
                    // gets task name
                    getName = task.getJSON("name");
                    // gets task due date
                    getDate =
task.getJSON("end_date").toString("MMMMM d");
                    if(task.getJSON("end_date").toDate() <= thisFriday &&
task.getJSON("end_date").toDate() >= thisMonday &&
task.getJSON("end_date").toDate() != zoho.currentdate)
                    {
                        ProjectsWeekTasks = ProjectsWeekTasks +
getName + " due on " + getDate + " and ";
                        ProjectsTasksWeekCount =
ProjectsTasksWeekCount + 1;

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```
        }
        if(task.getJSON("end_date").toDate() ==
zoho.currentdate)
        {
            ProjectsTodayTasks = ProjectsTodayTasks +
getName + " and ";
            ProjectsTasksTodayCount =
ProjectsTasksTodayCount + 1;
        }
    }
}
}
}
}
}
}
}
}
}
}
//-----Construct the projects message
ProjectsTodayTasks = ProjectsTodayTasks.removeLastOccurence(" and ");
ProjectsWeekTasks = ProjectsWeekTasks.removeLastOccurence(" and ");
ProjectsTasksMessage = "";
if(ProjectsTasksTodayCount == 0)
{
    ProjectsTasksMessage = ProjectsTasksMessage + "You have no tasks due in
Zoho Projects today.";
}
else if(ProjectsTasksTodayCount == 1)
{
    ProjectsTasksMessage = ProjectsTasksMessage + "Your task due today is " +
ProjectsTodayTasks + ".";
}
else
{
    ProjectsTasksMessage = ProjectsTasksMessage + "Your tasks due today are " +
ProjectsTodayTasks + ".";
}
//-----
if(ProjectsTasksWeekCount == 1)
{
    ProjectsTasksMessage = ProjectsTasksMessage + " Your other task this week
```

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is " + ProjectsWeekTasks + ".";
}
else if(ProjectsTasksWeekCount > 1)
{
    ProjectsTasksMessage = ProjectsTasksMessage + " Your other tasks this week
are " + ProjectsWeekTasks + ".";
}
if(ProjectsTasksTodayCount == 0 && ProjectsTasksWeekCount == 0)
{
    ProjectsTasksMessage = "You don't have any Projects tasks due this week.";
}
//-----
message = CRMTaskmessage + dealsMessage + ProjectsTasksMessage;
//-----Form a more concise message by grouping certain phrases
if(ProjectsTasksWeekCount == 0 && ProjectsTasksTodayCount == 0 &&
CRMTasksTodayCount == 0 && otherCount == 0)
{
    message = "You have no tasks due in CRM or Projects. " + dealsMessage;
}
if(ProjectsTasksWeekCount == 0 && ProjectsTasksTodayCount == 0 &&
CRMTasksTodayCount == 0 && otherCount == 0 && DealsTodayCount == 0 &&
DealsWeekCount == 0)
{
    message = "You have no tasks due in CRM or Projects and you have no CRM
deals closing this week.";
}
//-----
//-----
//-----Print out the message
result.put("message",message);
return result;

```