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Section A – Q1 – GITHUB LINK - <https://github.com/sangramsingh1997/v-comply->

isslotavailable(approvedLeaves,requestedLeave){

var length = approvedLeaves.length - 1;

for (var i = 0; i < length; i++){

var current = dateRanges[i];

var cfrom = current.leaveFrom.getTime();

var cto = current.leaveUpto.getTime();

var rfrom = requestedLeave.leaveFrom.getTime();

var rto = requestedLeave.leaveTo.getTime();

if(cfrom <= rto && rfrom <= cto){

return false;

}

}

return true;

}

Section A – Q2 – GITHUB LINK - <https://github.com/sangramsingh1997/v-comply->

function isslotavailable(approvedLeaves,startDate,endDate){

var sortedRanges = approvedLeaves.sort((previous, current) => {

var previousTime = previous.leaveFrom.getTime();

var currentTime = current.leaveFrom.getTime();

if (previousTime < currentTime) {

return -1;

}

// if the previous time is the same as the current time

if (previousTime === currentTime) {

return 0;

}

// if the previous time is later than the current time

return 1;

});

var ranges=[];

var length = sortedRanges.length - 1;

var prev=startDate;

for (var i = 0; i < length; i++){

var current = sortedRanges[i];

var cfrom = current.leaveFrom.getTime();

var cto = current.leaveUpto.getTime();

if(startDate.getTime()<cfrom){

if(endDate.getTime()<cfrom){

var temp = {

'availableFrom'=startDate;

'availableTo'=endDate;

}

ranges.push({

temp

})

}

else{

var temp = {

'availableFrom'=startDate;

'availableTo'=current.leaveFrom;

}

ranges.push({

temp

})

if(endDate<.getTime()>cto){

temp={

'availableFrom'=current.leaveTo;

'availableTo'=endDate;

}

ranges.push({

temp

)

}

}

prev=endDate;

}

}

return ranges;

}