**Problem Statement:** Holiday entry service to be developed. With two scenarios.

**Scenario#1:** Make an entry for all weekly holidays

**Secnario#2:** Make an entry for regional holidays.

**Validation Constraints:**

1. Branch code should be a valid branch code from the list given in pre-requisites
2. Date should be a valid date

**Pre-requisites**:

List of branches with their codes

|  |  |
| --- | --- |
| **Branch Code** | **Branch Name** |
| B001 | Singapore |
| B002 | Malasia |
| B003 | Hongkong |

**Domain Model:**

**Branch Table:**

|  |  |
| --- | --- |
| **Branch Code** | **Branch Name** |
| B001 | Singapore |
| B002 | Malasia |
| B003 | Hongkong |

**Holiday Entry Table:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **#Key** | **Branch** | **Holiday Name** | **date** | **Description** | **status** |
| **1** | **B001** | **Weekly Holiday** | **01/02/2020** | **WH: Saturday** | **Active** |
| **2** | **B001** | **Weekly Holiday** | **02/02/2020** | **WH: Sunday** | **Active** |
| **3** | **B001** | **Repupblic day** | **26/01/2020** | **RH: Repupblic Day** | **Active** |

**WH : Weekly Holiday**

**RH: Republic Holiday**

**Service Description:**

requires a Service with below operations.

1. **Op#1 :** Enter weekly holidays for a branch ( one time entry)
2. **Op#2:** Enter Regional Holidays for a branch ( 3 entries per branch.

**Psedo code:**

**Op#1**:

createWeeklyHolidays( String[] wh){

validationMessage= “ Weekly Holidays Entered Successfully”

for( String dow: wh){

GET ALL dow of the year

Prepare entry

Store in dataase

}

Return response.

}

**Op#2:**

createRegionalHolidays( HolidayDetails rh){

for( String dow: wh){

validation = true

validationMessage= “”

boolean dateValid=validateDate() ;

if(dateValid()==0)

{

Validation=false;

ValidationMessage=” Date Invalid”

}

if(branchValid()==0)

{

Validation=false;

ValidationMessage+=” Invalid branch”

}

If( entryExists()=0)

{

Validation=false;

ValidationMessage+=” Entry Already Exists”

}

**If(validation){**

Store entry in databse dataase

validationMessage= “ Regional Holiday entered Successfully”

Return response.( “ Status: Success

Message: ValidationMessage”)

}

**Else{**

Return response(“Status : Failure

Message: ValidationMessage)

}

}

}

**Accepance Criteria:**

**1 Op#1:**

* Input for day of week should be as below
  + SU, MO, TU, WE, TH, FR, SA
  + Eg: [ SA, SU] , [ SU,MO] etc.
* There should be entries for all the dates for the mention day of week as Weekly Holiday

**2. Op # 2:**

* Failure response for a input date is invalid
* Failure response for branch code is invalid
* Failure response in case the date matches with a existing entry’s date
* Success response in case the entry is valid