package com.vinay.creditcardvalidator.controller;

import java.util.ArrayList;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.beans.factory.annotation.Qualifier;

import org.springframework.web.bind.annotation.RequestBody;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestMethod;

import org.springframework.web.bind.annotation.RestController;

import com.vinay.creditcardvalidator.pojo.CreditCard;

import com.vinay.creditcardvalidator.validations.CardValidationInterface;

@RestController

@RequestMapping("/ccvalidator")

public class CreditCardValidatorController {

@Autowired

@Qualifier("VA")

CardValidationInterface validationva;

@Autowired

@Qualifier("MC")

CardValidationInterface validationmc;

@Autowired

@Qualifier("AX")

CardValidationInterface validationax;

@RequestMapping(path="/validate",method=RequestMethod.POST)

public List<String> validate(@RequestBody CreditCard card){

List<String> cardValidationErrors = new ArrayList<>();

if(card.getCardType().equalsIgnoreCase("AX")){

return validateCard(cardValidationErrors, validationax, card);

}else if(card.getCardType().equalsIgnoreCase("MC")) {

return validateCard(cardValidationErrors, validationmc, card);

}else if(card.getCardType().equalsIgnoreCase("VA")){

return validateCard(cardValidationErrors, validationva, card);

}else{

cardValidationErrors.add("Its not a valid card type");

}

return cardValidationErrors;

}

private List<String> validateCard(List<String> list,

CardValidationInterface interf, CreditCard card){

list.add(interf.cardCheckSumDigit(card.getCardNumber())+"");

list.add(interf.cardNumberLength(card.getCardNumber().length())+"");

list.add(interf.cardNumberPrefix(Integer.parseInt(card.getCardNumber().substring(0, 2)))+"");

list.add(interf.invalidNumbers(card.getCardNumber())+"");

list.add(interf.expirationDate(card.getExpiryDate())+"");

return list;

}

}