MessageController

```
package com.example.restdemo.controller;
import com.example.restdemo.exceptions.NotFoundException;
import org.springframework.web.bind.annotation.*;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
@RestController
@RequestMapping("message")
public class MessageController {
  private int counter = 4;
  private List<Map<String, String>> messages = new ArrayList<Map<String, String>>() {{
    add(new HashMap<String, String>() {{
      put("id", "1");
      put("text", "First message");
    add(new HashMap<String, String>() {{
      put("id", "2");
      put("text", "Second message");
    add(new HashMap<String, String>() {{
      put("id", "3");
      put("text", "Third message");
  @GetMapping
  public List<Map<String, String>> list() {
    return messages;  —
  @GetMapping("{id}")
  public Map<String, String> getOne(@PathVariable String id) {
    return getMessage(id);
  private Map<String, String> getMessage(@PathVariable String id) {
    return messages.stream()
          .filter(map -> map.get("id").equals(id))
          .findFirst()
          .orElseThrow(NotFoundException::new);
  @PostMapping
  public Map<String, String> create(@RequestBody Map<String, String> message) {
    message.put("id", String.valueOf(counter++));
    messages.add(message);
    return message;
  @PutMapping("{id}")
  public Map<String, String> update(@PathVariable String id,
                      @RequestBody Map<String, String> message) {
    Map<String, String> messageFromDB = getMessage(id);
    messageFromDB.putAll(message);
    messageFromDB.put("id", id);
                                                                          0 {_}}
                                                                          id 1
    return messageFromDB;
                                                                          text First message
                                                                          1 {_}
                                                                          id 2
  @DeleteMapping("{id}")
                                                                          text Second message
  public void delete(@PathVariable String id) {
                                                                          2
                                                                                {_}
    Map<String, String> message = getMessage(id);
                                                                          id
    messages.remove(message);
                                                                          text Third message
```

```
main.js
var messageApi = Vue.resource('/message{/id}');
Vue.component('messages-row', {
  props: ['message'], 🖊
  template: "<div><i>{{message.id}}). </i>{{message.text}}</div>"
Vue.component('messages-list', {
➤ props: ['messages'], 🗲
  template: '<div>' +
'<messages-row v-for="message in messages" :key="message.id" :message="message"/>' +
  '</div>',
  created: function () {
   — messageApi.get().
 then(result => result.json().then(data =>
    data.forEach(message => this.messages.push(message)
});
var app = new Vue({
 el: '#app',
 🖊 template: '<messages-list :messages="messages"/>', —
 data: {
    messages: [], —
});
```

## index.html