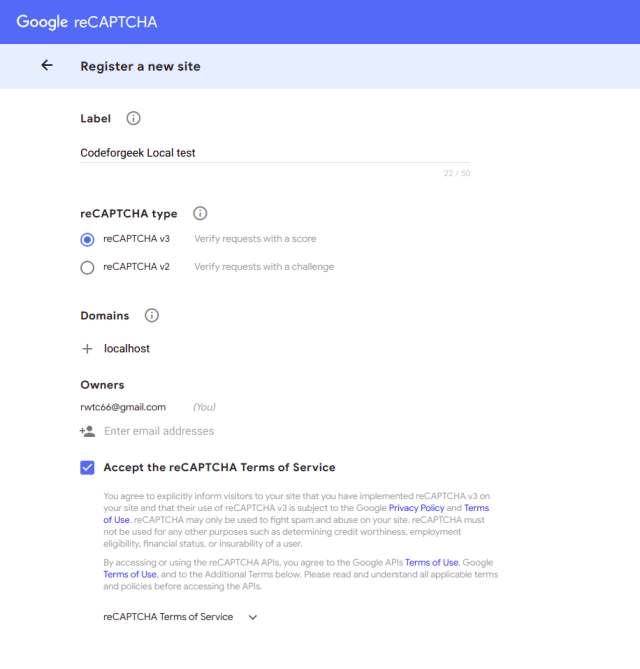
**Google reCAPTCHA V3**

**Steps for Implementation of Google reCAPTCHA V3 in web application:**

* **Register your website and get Secret Key**

First thing you need to do is register your website on Google reCAPTCHA**.**

[**https://www.google.com/recaptcha/intro/v3.html**](https://www.google.com/recaptcha/intro/v3.html)



Once submitted you will receive below 2 keys.

* + Site Key
  + Secret Key
* **Integrate Google reCAPTCHA in application.**

1. We need to include below script in our login HTML page.

**Note**: We need to include it in HTML page which has form.

<script src="https://www.google.com/recaptcha/api.js?render=your Site Key" ></script>

1. Need to include below code in your js file.

|  |
| --- |
| grecaptcha.ready(function () {  grecaptcha.execute( ‘Your Site Key', { action: 'homepage' })  .then(function (token) {  // Verify the token on the server.  document.getElementById("g-recaptcha-response").value = token;  $http({  method: 'GET',  url: '/google?token=' + token  }).then(function successCallback(response) {  if(response.data.score < 0.5 && response.data.success == true){  swal(  "Sorry!",  "Could not identify you as human !!!",  "error");  $scope.loading=false;  $scope.loginBtnStatus = false;  return false;  }  else  $scope.Login(form);  }, function errorCallback(response) {    });  });  }); |

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1. Need to make the below API call from Node to Google to validate our site key and to generate score.

|  |
| --- |
| app.get('/google', function(httpReq, httpRes) {  try {  var token = httpReq.param('token');  var secret = 'Your site secret Key;  https.get("https://www.google.com/recaptcha/api/siteverify?secret=" + secret + "&response=" + token, function(res) {  var data = "";  res.on('data', function (chunk) {  data += chunk.toString();  });  res.on('end', function() {  try {  var parsedData = JSON.parse(data);  httpRes.json(JSON.parse(data));  } catch (e) {  }  });  });  } catch (error) {  logger.log('error', 'error caught while verifying Google reCAPCHA');  }  }); |

* **Verify reCAPTCHA response**

The score provided by API response determines whether the user is a human or a bot. If the score is less than 0.5 (ex: 0.1) then it represents automated script is being used to access the application and if the score is greater than 0.5 then a human is accessing the application.

So according to the response score you can show the validation success/Failure to the end user.

**Note**: if you could see the below icon on the bottom right of your application, then Google reCAPTCHA v3 is implemented in your application.

