

## **Security Cheat Sheet**

## ESAPI Functions - Force.com ESAPI security library for Force.com available at http://code.google.com/p/force-dot-com-esapi Protecting the privacy of customer data and maintaining trust are salesforce.com's core values. The Force.com platform has numerous built-in security features and protections, SFDCAccess Controller Class which can be utilized by our org administrators and developers. In addition, a number of free security resources are available to assist developers with education, design, and Provides access control functionality to enforce CRUD/FLS and sharing in the development of their applications. Force com platform Configures the library to operate with sharing, without sharing, set OperationMode() Configures the library to require all operations be successful or to omit changes for which the user does not have access. Sharing Keywords - Force.com Controls record-level security of data. These keywords are used in Apex class declarations. insertAsUser() Insert objects while respecting the user's access rights. update As User() Update objects while respecting the user's access rights. Operate with the calling user's sharing rights. Recommended delete As User(') Delete objects while respecting the user's access rights. Operate without the calling user's sharing rights. Generally only without sharing get\lewableFields() Return a list of object fields that are viewable by the current recommended for classes doing reporting or data aggregation. Return a list of object fields that are updateable by the current user. get Updateable Fields() Inherit sharing from calling class. Not recommended for \u00cdsualforce sunspecified sharing> get Creatable Fields() Return a list of object fields that are creatable by the current user. CRUD (Create, Read, Update, Delete) - Force.com is Authorized To View() Returns whether or not the current user is authorized to view a given list of fields of a given object. Controls object-level security of data. These are standard s Object and field methods. is Authorized To Create() Returns whether or not the current user is authorized to create a given list of fields of a given object. Returns true if instances of this object can be created by the current is Createable() user, false otherwise. is Authorized To Update() Returns whether or not the current user is authorized to update a given list of fields of a given object. Returns true if the current user can see instances of this object type, is Accessible() is Authorozed To Delete() Returns whether or not the current user is authorized to delete a given object. SFDCEncoder Class is Updateable() Returns true if instances of this object can be updated by the current Provides text escaping functions for Force.com. user, false otherwise SFDC JSENCODE Escapes data for use in Java Script quoted strings. is Deleteable() Returns true if instances of this object can be deleted by the current SFDC\_JSINHTMLENCODE Escapes data for use in Java Script quoted strings that will be used in HTML tags. user, false otherwise SFDC HTMLENCODE Escapes data for use in HTML tags. SFDC URLENCODE Escapes data for use in URLs according to RFC 3996 syntax FLS (Field Level Security) Describe Calls - Force.com Controls access to object fields. These are standard s Object and field methods. Crypto Class - Force.com Provides standard algorithms for creating digests, message authentication codes, and is Createable() Returns true if the field can be created by the current user, false signatures, as well as encrypting and decrypting information using AES. Encryption keys should be stored securely within a Protected Custom Setting. is Accessible() Returns true if the current user can see this field, false otherwise. Encrypts the blob clearText using the specified algorithm, private key, and initialization vector. Use this method when you want to specify your own initialization vector. is Updateable() Returns true if the field can be edited by the current user, false otherwise Encrypts the blob clearText using the specified algorithm and private key. Use this method when you want sales force com to generate the initialization vector for you. encryptWithManagedIV() Visualforce Escaping Functions - Force.com Decrypts the blob cipherText using the specified algorithm, private key, and initialization vector. decrypt() Server-side functions to escape data to prevent cross-site scripting. Decrypts the blob IVAndCipherText using the specified algorithm and private key. Use this method to decrypt blobs encrypted using the encryptWithWanagedIV method. decryptWithManagedfv() Example: <html><head><title> (!HTMLENCODE(\$Request.title)) generate Aes Key() Generates an AES key of the specified size. </title></head></html> generate Digest() Computes a one-way hash digest based on the input string and Escapes data for use in Java Script quoted strings. Computes a message authentication code (MAC) for the input string, using the private key and the specified algorithm. generateMac() Escapes data for use in Java Script quoted strings that will be used in HTML tags. JSINHTMLENCODE. getRandominteger() Returns a random integer. HTML ENCODE Escapes data for use in HTML tags. getRandomLong() Returns a random Long. Computes a unique digital signature for the input string, using the supplied private key and the specified algorithm. URLENCODE Escapes data for use in URLs according to RFC 3986 syntax.



http://developer.force.com