Application

Descriptors

Boolean _isRunning

Journal _journal

Constructors

Application()

Accessors

Journal Journal()

void Journal(Journal journal)

Boolean IsRunning()

void IsRunning(Boolean state)

JournalDatabaseConnection Database()

void Database(JournalDatabaseConnection database)

Encryption Encryption()

void Encryption(Encryption encryption)

byte[] InitializationVector()

void InitializationVector(byte[] key)

byte[] SecretKey()

void SecretKey(byte[] key)

JournalFile File()

void File(JournalFile file)

Methods

void Run()

void DisplayMenu()

string ReadMenu()

Boolean EvaluateMenu(string Response)

void Exit()

Journal

Descriptors

JournalFile _file

JournalDatabaseConnection _database

Constructors

Journal()

Accessors

void File(JournalFile file)

JournalFile File()

JournalDatabaseConnection Database()

void Database(JournalDatabaseConnection database)

Encryption Encryption()

void Encryption(Encryption encryption)

Methods

Prompt PromptForEntry(Prompt prompt)

string ReadResponse()

Prompt AddJournalEntry(Prompt prompt, string response)

void Display()

JournalFile

Descriptors

string _PROMPT_DATA_FILE = "journal.dat"

Boolean _prompts_json_init

Constructors

JournalFile()

Accessors

string PromptDataFile()

void PromptDataFile(string filename)

Boolean DoesPromptDatExist()

Boolean PromptsJSONInit()

void PromptsJSONInit(Boolean state)

Methods

void LoadEntryPrompts(JournalDatabaseConnection database)

void UpdatePromptData(Encryption encryption, Prompt prompt)

void PromptForFilename()

string EvaluateFileFormat(Journal journal, string filename)

void PromptForFileFormat()

void PromptForBaseFilename(string keyType)

void LoadEntries(Journal journal, string filename)

bool IsCSV(string data)

bool IsJSON(string data)

void SaveEntries(Journal journal, string filename)

string GetCSV(Encryption encryption, Boolean encrypted = false)

void SetCSV(Encryption encryption, string input, Boolean encrypted = false)

string GetJSON(Encryption encryption, Boolean encrypted = false)

void SetJSON(Encryption encryption, string input, Boolean encrypted = false)

void PromptAesEncryptedResponse()

Boolean GetAesEncryptedResponse(Journal journal)

void EncryptFileRSA(String plainText, Encryption encryption, string plainTextFilename, string baseFileName)

string DecryptFileRSA(Encryption encryption, string cypherTextFilename, string baseFileName)

JournalDatabaseConnection

Descriptors

string _DB_FILENAME = "Journal.db"

string _DB_MODE = "ReadWriteCreate"

string _DB_CACHE = "Private"

string _DB_USEFK = "True"

string _DB_DEF_TIMEOUT = "60"

bool _init

Encryption _encryption

Constructors

JournalDatabaseConnection(bool doesPromptDatExist, Encryption encryption)

Accessors

string DbFilename()

void DbFilename(string filename)

string DbMode()

void DbMode(string mode)

string DbCache()

void DbCache(string cache)

string DbUseForiegnKey()

void DbUseForiegnKey(string state)

string DbDefaultTimeout()

void DbDefaultTimeout(string timeout)

bool IsInit()

void IsInit(bool state)

Encryption Encryption()

void Encryption(Encryption encryption)

Methods

string GetDBConnectionString()

SqliteConnection GetDBConnection(string connectionString)

List<Object> GetDBQueryObjectList(string query, int resultColCount)

Boolean IsDBDefined()

List<string> DefineDB()

Boolean AreDBPromptsDefined()

List<string> DefineDBPrompts(Encryption encryption, List<Prompt> prompts)

List<Prompt> ReadDBPrompts(Encryption encryption)

List<string> UpdateDBPrompts(Encryption encryption, List<Prompt> prompts)

Prompt GetEntryPrompt(Encryption encryption)

List<string> AddDBJournalEntry(Encryption encryption, Entry entry)

List<Entry> ReadDBEnties(Encryption encryption)

List<string> TruncateDBEnties()

Entry

Descriptors

string _date

Prompt _prompt

string _response

Constructors

Entry(string date, Prompt prompt, string response)

Entry(Encryption encryption, DateTime date, Prompt prompt, string response)

Entry(Encryption encryption, string date, Prompt prompt, string response)

Accessors

string Date()

void Date(string date)

void OpenDateTime(Encryption encryption, DateTime date)

DateTime OpenDateTime(Encryption encryption)

void OpenDate(Encryption encryption, string date)

string OpenDate(Encryption encryption)

Prompt Prompt()

void Prompt(Prompt prompt)

string PromptValue()

void PromptValue(string value)

void PromptOpenValue(Encryption encryption, string value)

string PromptOpenValue(Encryption encryption)

string TimesPromptUsed()

void TimesPromptUsed(string timesUsed)

void TimesPromptUsedInt(Encryption encryption, int timesUsed)

int TimesPromptUsedInt(Encryption encryption)

void OpenTimesPromptUsed(Encryption encryption, string timesUsed)

string OpenTimesPromptUsed(Encryption encryption)

string PromptLastUsed()

void PromptLastUsed(string lastUsed)

void PromptLastUsedDate(Encryption encryption, DateTime lastUsed)

DateTime PromptLastUsedDate(Encryption encryption)

void OpenPromptLastUsed(Encryption encryption, string lastUsed)

string OpenPromptLastUsed(Encryption encryption)

string Response()

void Response(string response)

void OpenResponse(Encryption encryption, string response)

string OpenResponse(Encryption encryption)

Methods

void Display(Encryption encryption)

string GetCSV(Encryption encryption, Boolean encrypted)

void ParseCSV(string input, Encryption encryption, Boolean encrypted)

string JSON()

void JSON(string json)

OpenEntry ToOpenEntry(Encryption encryption)

OpenEntry

Descriptors

DateTime _date

OpenPrompt _prompt

string _response

Constructors

OpenEntry(string date, OpenPrompt prompt, string response)

OpenEntry(DateTime date, OpenPrompt prompt, string response)

OpenEntry(Encryption encryption, string date, OpenPrompt prompt, string response)

Accessors

DateTime Date()

void Date(DateTime date)

void DateString(string date)

string DateString()

void CipheredDate(Encryption encryption, string date)

string CipheredDate(Encryption encryption)

OpenPrompt Prompt()

void Prompt(OpenPrompt prompt)

string PromptValue()

void PromptValue(string value)

void PromptCipheredValue(Encryption encryption, string value)

string PromptCipheredValue(Encryption encryption)

int TimesPromptUsed()

void TimesPromptUsed(int timesUsed)

void TimesPromptUsedString(string timesUsed)

string TimesPromptUsedString()

void CipheredTimesPromptUsed(Encryption encryption, string timesUsed)

string CipheredTimesPromptUsed(Encryption encryption)

DateTime PromptLastUsed()

void PromptLastUsed(DateTime date)

void PromptLastUsedString(string lastUsed)

string PromptLastUsedString()

void CipheredPromptLastUsed(Encryption encryption, string lastUsed)

string CipheredPromptLastUsed(Encryption encryption)

string Response()

void Response(string response)

void CipheredResponse(Encryption encryption, string response)

string CipheredResponse(Encryption encryption)

Methods

string JSON()

void JSON(string json)

Entry ToEntry(Encryption encryption)

Prompt

Descriptors

string _value

string _timesUsed

string _lastUsed

Constructors

Prompt(string value, string lastUsed, string timesUsed)

Prompt(Encryption encryption, string value, string lastUsed, string timesUsed)

Prompt(Encryption encryption, string value, DateTime lastUsed, int timesUsed = 0)

Accessors

string Value()

void Value(string value)

void OpenValue(Encryption encryption, string value)

string OpenValue(Encryption encryption)

string LastUsed()

void LastUsed(string lastUsed)

void OpenLastUsed(Encryption encryption, string lastUsed)

string OpenLastUsed(Encryption encryption)

void LastUsedDate(Encryption encryption, DateTime lastUsed)

DateTime LastUsedDate(Encryption encryption)

string TimesUsed()

void TimesUsed(string timesUsed)

void OpenTimesUsed(Encryption encryption, string timesUsed)

string OpenTimesUsed(Encryption encryption)

void TimesUsedInt(Encryption encryption, int timesUsed)

int TimesUsedInt(Encryption encryption)

Methods

void Display(Encryption encryption)

string JSON()

void JSON(string json)

OpenPrompt ToOpenPrompt(Encryption encryption)

OpenPrompt

Descriptors

string _value

int _timesUsed

DateTime _lastUsed

Constructors

OpenPrompt(string value, string lastUsed, string timesUsed)

OpenPrompt(Encryption encryption, string cipheredValue, string cipheredLastUsed, string cipheredTimesUsed)

OpenPrompt(string value, DateTime lastUsed, int timesUsed = 0)

Accessors

string Value()

void Value(string value)

void CipheredValue(Encryption encryption, string value)

string CipheredValue(Encryption encryption)

DateTime LastUsed()

void LastUsed(DateTime lastUsed)

void CipheredLastUsed(Encryption encryption, string lastUsed)

string CipheredLastUsed(Encryption encryption)

void LastUsedString(string lastUsed)

string LastUsedString()

int TimesUsed()

void TimesUsed(int timesUsed)

void CipheredTimesUsed(Encryption encryption, string timesUsed)

string CipheredTimesUsed(Encryption encryption)

void TimesUsedString(string timesUsed)

string TimesUsedIString()

Methods

string JSON()

void JSON(string json)

Prompt ToPrompt(Encryption encryption)

Encryption

Descriptors

int _AES_BLOCK_SIZE = 128

int _AES_FEEDBACK_SIZE = 8

int _AES_KEY_SIZE = 256

CipherMode _AES_MODE = CipherMode.CBC

PaddingMode _AES_PADDING = PaddingMode.PKCS7

KeySizes _AES_LEGAL_BLOCK_SIZES = new KeySizes(128, 128, 0)

KeySizes _AES_LEGAL_KEY_SIZES = new KeySizes(128, 256, 64)

int _RSA_CSP_BITS = 2048

Aes _aes;

RSACryptoServiceProvider _csp

Constructors

Encryption(KeySizes legalBlockSizes=null, KeySizes legalKeySizes=null, Aes aes=null, RSACryptoServiceProvider csp=null)

Accessors

int AESBlockSize()

void AESBlockSize(int size)

int AESFeedbackSize()

void AESFeedbackSize(int size)

int AESKeySize()

void AESKeySize(int size)

CipherMode AESCipherMode()

void AESCipherMode(CipherMode mode)

PaddingMode AESPaddingMode()

void AESPaddingMode(PaddingMode mode)

KeySizes AESLegalBlockSizes()

void AESLegalBlockSizes(KeySizes size)

KeySizes AESLegalKeySizes()

void AESLegalKeySizes(KeySizes size)

int RSACSPBits()

void RSACSPBits(int bits)

Aes AES()

void AES(Aes aes)

RSACryptoServiceProvider RSACryptoServiceProvider()

void RSACryptoServiceProvider(RSACryptoServiceProvider csp)

Methods

void SetAes(byte[] initializationVector, byte[] secretKey, int? blockSize = null, int? feedbackSize = null, int? keySize = null, KeySizes legalBlockSizes = null, KeySizes legalKeySizes = null, CipherMode? mode = null, PaddingMode? padding = null)

string DecryptStringAES(string ciphered)

string EncryptStringAES(string plainText)

void PromptForBaseFilename()

string ReadResponse()

void DisplayPublicPrivateKeyPair()

Tuple<string, string> GetNewPublicPrivateKeyPair()

string GetPublicKey(RSACryptoServiceProvider csp = null)

string GetPrivateKey(RSACryptoServiceProvider csp = null)

RSAParameters GetRSAParameter(string key)

string GetRSAKeyString(RSAParameters key)

void SetRSAKey(string key)

string EncryptStringRSA(string plainText, string baseFileName)

string DecryptStringRSA(string cypherText, string baseFileName)

String[] EncryptLargeStringRSA(String plainText, string baseFileName)

String DecryptLargeStringRSA(String[] cypherText, string baseFileName)