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How This API Document Is Organized

This API (Application Programming Interface) document has pages corresponding to the items in the navigation bar, described as follows.

• Overview

The Overview page is the front page of this API document and provides a list of all packages with a summary for each. This page can also contain an overall description of the set of packages.

• Package

Each package has a page that contains a list of its classes and interfaces, with a summary for each. This page can contain six categories:

- ♦ Interfaces (italic)
- ♦ Classes
- ♦ Enums
- ♦ Exceptions
- ♦ Errors
- ♦ Annotation Types

• Class/Interface

Each class, interface, nested class and nested interface has its own separate page. Each of these pages has three sections consisting of a class/interface description, summary tables, and detailed member descriptions:

- ♦ Class inheritance diagram
- ♦ Direct Subclasses
- ♦ All Known Subinterfaces
- ♦ All Known Implementing Classes

- ♦ Class/interface declaration
- ♦ Class/interface description
- ♦ Nested Class Summary
- ♦ Field Summary
- ♦ Constructor Summary
- ♦ Method Summary
- ♦ Field Detail
- ♦ Constructor Detail
- ♦ Method Detail

Each summary entry contains the first sentence from the detailed description for that item. The summary entries are alphabetical, while the detailed descriptions are in the order they appear in the source code. This preserves the logical groupings established by the programmer.

• Annotation Type

Each annotation type has its own separate page with the following sections:

- ♦ Annotation Type declaration
- ♦ Annotation Type description
- ♦ Required Element Summary
- ♦ Optional Element Summary
- ♦ Element Detail

• Enum

Each enum has its own separate page with the following sections:

- ♦ Enum declaration
- ♦ Enum description
- ♦ Enum Constant Summary
- ♦ Enum Constant Detail

• Tree (Class Hierarchy)

There is a Class Hierarchy page for all packages, plus a hierarchy for each package. Each hierarchy page contains a list of classes and a list of interfaces. The classes are organized by inheritance structure starting with `java.lang.Object`. The interfaces do not inherit from `java.lang.Object`.

- ♦ When viewing the Overview page, clicking on "Tree" displays the hierarchy for all packages.
- ♦ When viewing a particular package, class or interface page, clicking "Tree" displays the hierarchy for only that package.

• Deprecated API

The Deprecated API page lists all of the API that have been deprecated. A deprecated API is not recommended for use, generally due to improvements, and a replacement API is usually given. Deprecated APIs may be removed in future implementations.

• Index

The Index contains an alphabetic list of all classes, interfaces, constructors, methods, and fields.

• **Prev/Next**

These links take you to the next or previous class, interface, package, or related page.

• **Frames/No Frames**

These links show and hide the HTML frames. All pages are available with or without frames.

• **All Classes**

The <u>All Classes</u> link shows all classes and interfaces except non-static nested types.

• **Serialized Form**

Each serializable or externalizable class has a description of its serialization fields and methods. This information is of interest to re-implementors, not to developers using the API. While there is no link in the navigation bar, you can get to this information by going to any serialized class and clicking "Serialized Form" in the "See also" section of the class description.

• **Constant Field Values**

The <u>Constant Field Values</u> page lists the static final fields and their values.

This help file applies to API documentation generated using the standard doclet.
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Hierarchy For All Packages

Package Hierarchies:

- edu.cse4232.gossip.asn1,
- edu.cse4232.gossip.client,
- edu.cse4232.gossip.helper,
- edu.cse4232.gossip.server

Class Hierarchy

- java.lang.Object
  - ♦ net.ddp2p.ASN1.ASNObjArrayable
    - ◊ net.ddp2p.ASN1.ASNObj
      - · edu.cse4232.gossip.asn1.Gossip
      - · edu.cse4232.gossip.asn1.Leave
      - · edu.cse4232.gossip.asn1.Peer
      - · edu.cse4232.gossip.asn1.PeersAnswer
      - · edu.cse4232.gossip.asn1.PeersQuery
  - ♦ edu.cse4232.gossip.helper.Broadcaster
  - ♦ edu.cse4232.gossip.client.Client (implements java.lang.Runnable)
  - ♦ edu.cse4232.gossip.helper.DataBaseHandler (implements java.lang.AutoCloseable)
  - ♦ edu.cse4232.gossip.client.GossipClientFactory
  - ♦ edu.cse4232.gossip.helper.Logger (implements java.lang.AutoCloseable)
  - ♦ edu.cse4232.gossip.server.PeerWitness
  - ♦ edu.cse4232.gossip.server.Server
  - ♦ edu.cse4232.gossip.client.TCPClient (implements edu.cse4232.gossip.client.GossipClient)
  - ♦ edu.cse4232.gossip.server.TCPResponder (implements java.lang.Runnable)
  - ♦ edu.cse4232.gossip.server.TCPServer (implements java.lang.AutoCloseable, java.lang.Runnable)
  - ♦ edu.cse4232.gossip.client.UDPClient (implements edu.cse4232.gossip.client.GossipClient)

  ◆ edu.cse4232.gossip.server.<u>UDPResponder</u> (implements java.lang.Runnable)
  ◆ edu.cse4232.gossip.server.<u>UDPServer</u> (implements java.lang.AutoCloseable, java.lang.Runnable)

Interface Hierarchy

- edu.cse4232.gossip.client.<u>GossipClient</u>

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Package	Description
edu.cse4232.gossip.asn1	
edu.cse4232.gossip.client	
edu.cse4232.gossip.helper	
edu.cse4232.gossip.server	

All Classes

- Broadcaster
- Client
- DataBaseHandler
- Gossip
- GossipClient
- GossipClientFactory
- Leave
- Logger
- Peer
- PeersAnswer
- PeersQuery
- PeerWitness
- Server
- TCPClient
- TCPResponder
- TCPServer
- UDPClient
- UDPResponder
- UDPServer

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Hierarchy For Package edu.cse4232.gossip.asn1

Package Hierarchies:

- All Packages

Class Hierarchy

- java.lang.Object
    - ♦ net.ddp2p.ASN1.ASNObjArrayable
        - ◊ net.ddp2p.ASN1.ASNObj
            - · edu.cse4232.gossip.asn1.Gossip
            - · edu.cse4232.gossip.asn1.Leave
            - · edu.cse4232.gossip.asn1.Peer
            - · edu.cse4232.gossip.asn1.PeersAnswer
            - · edu.cse4232.gossip.asn1.PeersQuery

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Package edu.cse4232.gossip.asn1

-

Class	Description
Gossip	[APPLICATION 1] EXPLICIT SEQUENCE {sha256hash OCTET STRING, timestamp GeneralizedTime, message UTF8String}
Leave	[APPLICATION 4] EXPLICIT SEQUENCE {name UTF8String}
Peer	[APPLICATION 2] IMPLICIT SEQUENCE {name UTF8String, port INTEGER, ip PrintableString}
PeersAnswer	[1] EXPLICIT SEQUENCE OF Peer
PeersQuery	[APPLICATION 3] IMPLICIT NULL

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- Summary:
- Nested |
- Field |
- Constr |
- Method

- Detail:
- Field |
- Constr |
- Method

edu.cse4232.gossip.asn1

Class PeersQuery

- java.lang.Object
-    ♦ net.ddp2p.ASN1.ASNObjArrayable
        ♦   ◊ net.ddp2p.ASN1.ASNObj
            ◊   · edu.cse4232.gossip.asn1.PeersQuery

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```
public class
extends net.ddp2p.ASN1.ASNObj
```

[APPLICATION 3] IMPLICIT NULL

- **♦ Field Summary**

Modifier and Type	Field and Description
static byte	TAG

◊
Fields inherited from class net.ddp2p.ASN1.ASNObj

DEPENDANTS_ALL, DEPENDANTS_NONE

♦
Constructor Summary

Constructor and Description
PeersQuery()

♦
Method Summary

Modifier and Type	Method and Description
java.lang.Object	decode(net.ddp2p.ASN1.Decoder decoder)
net.ddp2p.ASN1.Encoder	getEncoder()
java.lang.String	toString()

◊
Methods inherited from class net.ddp2p.ASN1.ASNObj

instance

◊
Methods inherited from class net.ddp2p.ASN1.ASNObjArrayable

encode, getEncoder, getEncoder

◊
Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

- ♦
Field Detail

◊ **TAG**

```
public static final byte TAG
```

♦
Constructor Detail

◊ **PeersQuery**

```
public PeersQuery()
```

♦
Method Detail

◊ **getEncoder**

```
public net.ddp2p.ASN1.Encoder getEncoder()
```

Specified by:
>   getEncoder in class net.ddp2p.ASN1.ASNObjArrayable

◊ **decode**

```
public java.lang.Object decode(net.ddp2p.ASN1.Decoder decoder)
                        throws net.ddp2p.ASN1.ASN1DecoderFail
```

Specified by:
>   decode in class net.ddp2p.ASN1.ASNObjArrayable
Throws:
>   net.ddp2p.ASN1.ASN1DecoderFail

◊ **toString**

```
public java.lang.String toString()
```

Overrides:
>   toString in class java.lang.Object

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- Summary:
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- <u>Constr</u> |
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- Detail:
- <u>Field</u> |
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- Detail:
- Field |
- Constr |
- Method

edu.cse4232.gossip.asn1

Class PeersAnswer

- java.lang.Object
-    ♦ net.ddp2p.ASN1.ASNObjArrayable
-       ♦   ◊ net.ddp2p.ASN1.ASNObj
            ◊   · edu.cse4232.gossip.asn1.PeersAnswer

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```
public class
extends net.ddp2p.ASN1.ASNObj
```

[1] EXPLICIT SEQUENCE OF Peer

- - **♦ Field Summary**

Modifier and Type	Field and Description
private Peer[]	peers
static byte	TAG

◊

Fields inherited from class net.ddp2p.ASN1.ASNObj

DEPENDANTS_ALL, DEPENDANTS_NONE

♦

Constructor Summary

Constructor and Description
PeersAnswer()
PeersAnswer(Peer[] peers)

♦

Method Summary

Modifier and Type	Method and Description
java.lang.Object	decode(net.ddp2p.ASN1.Decoder decoder)
net.ddp2p.ASN1.Encoder	getEncoder()
Peer[]	getPeers()
java.lang.String	toString()

◊

Methods inherited from class net.ddp2p.ASN1.ASNObj

instance

◊

Methods inherited from class net.ddp2p.ASN1.ASNObjArrayable

encode, getEncoder, getEncoder

◊

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

- - **♦ Field Detail**

◊ TAG

```
public static final byte TAG
```
◊ peers

```
private Peer[] peers
```

♦
Constructor Detail

◊ PeersAnswer

```
public PeersAnswer()
```
◊ PeersAnswer

```
public PeersAnswer(Peer[] peers)
```

♦
Method Detail

◊ getPeers

```
public Peer[] getPeers()
```
◊ getEncoder

```
public net.ddp2p.ASN1.Encoder getEncoder()
```

Specified by:
        getEncoder in class net.ddp2p.ASN1.ASNObjArrayable
◊ decode

```
public java.lang.Object decode(net.ddp2p.ASN1.Decoder decoder)
                       throws net.ddp2p.ASN1.ASN1DecoderFail
```

Specified by:
        decode in class net.ddp2p.ASN1.ASNObjArrayable
Throws:
        net.ddp2p.ASN1.ASN1DecoderFail
◊ toString

```
public java.lang.String toString()
```

Overrides:
        toString in class java.lang.Object

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- Summary:
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- Constr |
- Method

- Detail:
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- Method

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- Field |
- Constr |
- Method

- Detail:
- Field |
- Constr |
- Method

edu.cse4232.gossip.asn1

Class Peer

- java.lang.Object
  - ♦ net.ddp2p.ASN1.ASNObjArrayable
    - ♦ ◊ net.ddp2p.ASN1.ASNObj
      - ◊ · edu.cse4232.gossip.asn1.Peer

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```
public class
extends net.ddp2p.ASN1.ASNObj
```

[APPLICATION 2] IMPLICIT SEQUENCE {name UTF8String, port INTEGER, ip PrintableString}

♦ **Field Summary**

Modifier and Type	Field and Description
private java.lang.String	ip
private java.lang.String	name
private int	port
static byte	TAG

◊
Fields inherited from class net.ddp2p.ASN1.ASNObj

DEPENDANTS_ALL, DEPENDANTS_NONE

♦
Constructor Summary

Constructor and Description
Peer()
Peer(java.lang.String name, int port, java.lang.String ip)

♦
Method Summary

Modifier and Type	Method and Description
java.lang.Object	decode(net.ddp2p.ASN1.Decoder decoder)
net.ddp2p.ASN1.Encoder	getEncoder()
java.lang.String	getIp()
java.lang.String	getName()
int	getPort()
net.ddp2p.ASN1.ASNObj	instance()
java.lang.String	toFancyString()
java.lang.String	toString()

◊
Methods inherited from class net.ddp2p.ASN1.ASNObjArrayable

encode, getEncoder, getEncoder

- ◊ **Methods inherited from class java.lang.Object**

  ```
  clone, equals, finalize, getClass, hashCode, notify, notifyAll,
  wait, wait, wait
  ```

- ♦
  ## Field Detail

  ◊ **TAG**

  ```
  public static final byte TAG
  ```
  ◊ **name**

  ```
  private java.lang.String name
  ```
  ◊ **port**

  ```
  private int port
  ```
  ◊ **ip**

  ```
  private java.lang.String ip
  ```

♦
Constructor Detail

◊ **Peer**

```
public Peer()
```
◊ **Peer**

```
public Peer(java.lang.String name,
            int port,
            java.lang.String ip)
```

♦
Method Detail

◊ **getName**

```
public java.lang.String getName()
```
◊ **getPort**

```
public int getPort()
```
◊ **getIp**

```
public java.lang.String getIp()
```
◊ **getEncoder**

```
public net.ddp2p.ASN1.Encoder getEncoder()
```

Specified by:
    getEncoder in class net.ddp2p.ASN1.ASNObjArrayable

◊ **decode**

```
public java.lang.Object decode(net.ddp2p.ASN1.Decoder decoder)
                        throws net.ddp2p.ASN1.ASN1DecoderFail
```

Specified by:
    decode in class net.ddp2p.ASN1.ASNObjArrayable
Throws:
    net.ddp2p.ASN1.ASN1DecoderFail

◊ **instance**

```
public net.ddp2p.ASN1.ASNObj instance()
                            throws java.lang.CloneNotSupportedException
```

Overrides:
    instance in class net.ddp2p.ASN1.ASNObj
Throws:
    java.lang.CloneNotSupportedException

◊ **toString**

```
public java.lang.String toString()
```

Overrides:
    toString in class java.lang.Object

◊ **toFancyString**

```
public java.lang.String toFancyString()
```

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Method Detail

- Detail:
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- Method

- Detail:
- Field |
- Constr |
- Method

edu.cse4232.gossip.asn1

Class Leave

- java.lang.Object
-       ♦ net.ddp2p.ASN1.ASNObjArrayable
            ♦   ◊ net.ddp2p.ASN1.ASNObj
                    ◊   · edu.cse4232.gossip.asn1.Leave

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```
public class
extends net.ddp2p.ASN1.ASNObj
```

[APPLICATION 4] EXPLICIT SEQUENCE {name UTF8String}

- ◆ **Field Summary**

Modifier and Type	Field and Description
private java.lang.String	name
static byte	TAG

◊
Fields inherited from class net.ddp2p.ASN1.ASNObj

DEPENDANTS_ALL, DEPENDANTS_NONE

◆
Constructor Summary

Constructor and Description
Leave()

◆
Method Summary

Modifier and Type	Method and Description
java.lang.Object	decode(net.ddp2p.ASN1.Decoder decoder)
net.ddp2p.ASN1.Encoder	getEncoder()
java.lang.String	getName()

◊
Methods inherited from class net.ddp2p.ASN1.ASNObj

instance

◊
Methods inherited from class net.ddp2p.ASN1.ASNObjArrayable

encode, getEncoder, getEncoder

◊
Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

- ◆
Field Detail

◊ **TAG**

```
public static final byte TAG
```
◊ **name**

```
private java.lang.String name
```

♦
Constructor Detail

◊ **Leave**

```
public Leave()
```

♦
Method Detail

◊ **getName**

```
public java.lang.String getName()
```
◊ **getEncoder**

```
public net.ddp2p.ASN1.Encoder getEncoder()
```

Specified by:
> getEncoder in class net.ddp2p.ASN1.ASNObjArrayable
◊ **decode**

```
public java.lang.Object decode(net.ddp2p.ASN1.Decoder decoder)
                    throws net.ddp2p.ASN1.ASN1DecoderFail
```

Specified by:
> decode in class net.ddp2p.ASN1.ASNObjArrayable
Throws:
> net.ddp2p.ASN1.ASN1DecoderFail

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- Detail:
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edu.cse4232.gossip.asn1

Class Gossip

- java.lang.Object
- ◆ net.ddp2p.ASN1.ASNObjArrayable
  - ◆ ◊ net.ddp2p.ASN1.ASNObj
    - ◊ · edu.cse4232.gossip.asn1.Gossip

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```
public class
extends net.ddp2p.ASN1.ASNObj
```

[APPLICATION 1] EXPLICIT SEQUENCE {sha256hash OCTET STRING, timestamp GeneralizedTime, message UTF8String}

♦ **Field Summary**

Modifier and Type	Field and Description
private java.lang.String	<u>message</u>
private java.lang.String	<u>sha256hash</u>
static byte	<u>TAG</u>
private java.util.Calendar	<u>timestamp</u>

◊
Fields inherited from class net.ddp2p.ASN1.ASNObj

DEPENDANTS_ALL, DEPENDANTS_NONE

♦
Constructor Summary

Constructor and Description
<u>Gossip</u>()
<u>Gossip</u>(java.lang.String sha256hash, java.util.Calendar timestamp, java.lang.String message)
<u>Gossip</u>(java.lang.String sha256hash, java.lang.String message)

♦
Method Summary

Modifier and Type	Method and Description
java.lang.Object	<u>decode</u>(net.ddp2p.ASN1.Decoder decoder)
net.ddp2p.ASN1.Encoder	<u>getEncoder</u>()
java.lang.String	<u>getMessage</u>()
java.lang.String	<u>getSha256hash</u>()
java.util.Calendar	<u>getTimestamp</u>()
java.lang.String	<u>toString</u>()

◊
Methods inherited from class net.ddp2p.ASN1.ASNObj

instance

◊
Methods inherited from class net.ddp2p.ASN1.ASNObjArrayable

encode, getEncoder, getEncoder

- ### ◊ **Methods inherited from class java.lang.Object**

  ```
  clone, equals, finalize, getClass, hashCode, notify, notifyAll,
  wait, wait, wait
  ```

- ♦

  ## Field Detail

  ### ◊ **TAG**

  ```
  public static final byte TAG
  ```
  ### ◊ **sha256hash**

  ```
  private java.lang.String sha256hash
  ```
  ### ◊ **timestamp**

  ```
  private java.util.Calendar timestamp
  ```
  ### ◊ **message**

  ```
  private java.lang.String message
  ```

♦

Constructor Detail

  ### ◊ **Gossip**

  ```
  public Gossip()
  ```
  ### ◊ **Gossip**

  ```
  public Gossip(java.lang.String sha256hash,
                java.util.Calendar timestamp,
                java.lang.String message)
  ```
  ### ◊ **Gossip**

  ```
  public Gossip(java.lang.String sha256hash,
                java.lang.String message)
  ```

♦

Method Detail

  ### ◊ **getSha256hash**

  ```
  public java.lang.String getSha256hash()
  ```
  ### ◊ **getTimestamp**

  ```
  public java.util.Calendar getTimestamp()
  ```
  ### ◊ **getMessage**

  ```
  public java.lang.String getMessage()
  ```

◊ **getEncoder**

```
public net.ddp2p.ASN1.Encoder getEncoder()
```

Specified by:
> getEncoder in class net.ddp2p.ASN1.ASNObjArrayable

◊ **decode**

```
public java.lang.Object decode(net.ddp2p.ASN1.Decoder decoder)
                        throws net.ddp2p.ASN1.ASN1DecoderFail
```

Specified by:
> decode in class net.ddp2p.ASN1.ASNObjArrayable

Throws:
> net.ddp2p.ASN1.ASN1DecoderFail

◊ **toString**

```
public java.lang.String toString()
```

Overrides:
> toString in class java.lang.Object

Method Detail

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Hierarchy For Package edu.cse4232.gossip.helper

Package Hierarchies:

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Class Hierarchy

- java.lang.Object
    - ♦ edu.cse4232.gossip.helper.<u>Broadcaster</u>
    - ♦ edu.cse4232.gossip.helper.<u>DataBaseHandler</u> (implements java.lang.AutoCloseable)
    - ♦ edu.cse4232.gossip.helper.<u>Logger</u> (implements java.lang.AutoCloseable)

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Package edu.cse4232.gossip.helper

-
Class	Description
Broadcaster	
DataBaseHandler	
Logger	

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edu.cse4232.gossip.helper

Class Logger

- java.lang.Object
-      ♦ edu.cse4232.gossip.helper.Logger

- All Implemented Interfaces:
        java.lang.AutoCloseable

```
public class
extends java.lang.Object
implements java.lang.AutoCloseable
```

- ♦

Field Summary

Modifier and Type	Field and Description

private boolean	debugMode
static java.lang.String	DRIVER
private java.io.FileOutputStream	fileOutputStream
private static Logger	instance
static java.lang.String	NOP
static java.lang.String	RECV
static java.lang.String	SENT
static java.lang.String	SERVER
static java.lang.String	TCP
static java.lang.String	UDP
static java.lang.String	WARN

♦

Constructor Summary

Modifier	Constructor and Description
private	Logger(java.lang.String path, boolean append, boolean debug)

♦

Method Summary

Modifier and Type	Method and Description
void	close()
static Logger	getInstance()
static Logger	Initialize()
void	log(java.lang.Exception ex)
void	log(java.lang.String str)
void	log(java.lang.String protocol, java.lang.String unit, java.lang.String direction, java.lang.String str)

◊

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

• ♦

Field Detail

◊ **SERVER**

```
public static final java.lang.String SERVER
```

See Also:
> Constant Field Values

◊ **DRIVER**

```
public static final java.lang.String DRIVER
```

See Also:
> Constant Field Values

◊ **UDP**

```
public static final java.lang.String UDP
```

See Also:
> Constant Field Values

◊ **TCP**

```
public static final java.lang.String TCP
```

See Also:
> Constant Field Values

◊ **NOP**

```
public static final java.lang.String NOP
```

See Also:
> Constant Field Values

◊ **SENT**

```
public static final java.lang.String SENT
```

See Also:
> Constant Field Values

◊ **RECV**

```
public static final java.lang.String RECV
```

See Also:
> Constant Field Values

◊ **WARN**

```
public static final java.lang.String WARN
```

See Also:
> Constant Field Values

Field Detail

◊ **instance**

```
private static Logger instance
```

◊ **fileOutputStream**

```
private java.io.FileOutputStream fileOutputStream
```

◊ **debugMode**

```
private final boolean debugMode
```

♦

Constructor Detail

◊ **Logger**

```
private Logger(java.lang.String path,
               boolean append,
               boolean debug)
        throws java.io.IOException
```

Throws:
    java.io.IOException

♦

Method Detail

◊ **Initialize**

```
public static Logger Initialize()
                         throws java.io.IOException
```

Throws:
    java.io.IOException

◊ **getInstance**

```
public static Logger getInstance()
```

◊ **close**

```
public void close()
          throws java.io.IOException
```

Specified by:
    close in interface java.lang.AutoCloseable
Throws:
    java.io.IOException

◊ **log**

```
public void log(java.lang.Exception ex)
```

◊ **log**

```
public void log(java.lang.String str)
```

◊ **log**

```
public void log(java.lang.String protocol,
                java.lang.String unit,
                java.lang.String direction,
                java.lang.String str)
```

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Method Detail   39

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edu.cse4232.gossip.helper

Class DataBaseHandler

- java.lang.Object
- ♦ edu.cse4232.gossip.helper.DataBaseHandler

- All Implemented Interfaces:
  java.lang.AutoCloseable

```
public class
extends java.lang.Object
implements java.lang.AutoCloseable
```

- ♦

Field Summary

Modifier and Type	Field and Description

private java.sql.Connection	connection
private int	inRoom
private static DataBaseHandler	instance
private java.util.concurrent.Semaphore	leavestile
private java.util.concurrent.Semaphore	room
private java.util.concurrent.Semaphore	turnstile

♦

Constructor Summary

Modifier	Constructor and Description
private	DataBaseHandler(java.lang.String connectionString)

♦

Method Summary

Modifier and Type	Method and Description
void	close()
private void	enterRoom(boolean writer)
boolean	exists(java.lang.String sha)
static DataBaseHandler	getInstance()
static DataBaseHandler	Initialize(java.lang.String connectionString)
void	insertGossip(java.lang.String sha, java.lang.String dt, java.lang.String message)
void	insertPeer(java.lang.String name, java.lang.String port, java.lang.String ip)
private void	leaveRoom(boolean writer)
void	recreate()
void	removeUser(java.lang.String name)
Peer[]	selectPeers()

◊

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait, wait
```

• ♦

Field Detail

◊ **instance**

```
private static DataBaseHandler instance
```

◊ **room**

```
private final java.util.concurrent.Semaphore room
```

◊ **turnstile**

```
private final java.util.concurrent.Semaphore turnstile
```

◊ **leavestile**

```
private final java.util.concurrent.Semaphore leavestile
```

◊ **inRoom**

```
private int inRoom
```

◊ **connection**

```
private java.sql.Connection connection
```

♦

Constructor Detail

◊ **DataBaseHandler**

```
private DataBaseHandler(java.lang.String connectionString)
                  throws java.sql.SQLException
```

Throws:
  java.sql.SQLException

♦

Method Detail

◊ **Initialize**

```
public static DataBaseHandler Initialize(java.lang.String connectionString)
                                  throws java.sql.SQLException
```

Throws:
  java.sql.SQLException

◊ **getInstance**

```
public static DataBaseHandler getInstance()
```

◊ **close**

```
public void close()
          throws java.sql.SQLException
```

Specified by:
  close in interface java.lang.AutoCloseable
Throws:
  java.sql.SQLException

Field Detail   42

◊ **recreate**

```
public void recreate()
             throws java.sql.SQLException
```

Throws:

    java.sql.SQLException

◊ **insertPeer**

```
public void insertPeer(java.lang.String name,
                       java.lang.String port,
                       java.lang.String ip)
               throws java.sql.SQLException
```

Throws:

    java.sql.SQLException

◊ **insertGossip**

```
public void insertGossip(java.lang.String sha,
                         java.lang.String dt,
                         java.lang.String message)
                 throws java.sql.SQLException
```

Throws:

    java.sql.SQLException

◊ **exists**

```
public boolean exists(java.lang.String sha)
              throws java.sql.SQLException
```

Throws:

    java.sql.SQLException

◊ **removeUser**

```
public void removeUser(java.lang.String name)
               throws java.sql.SQLException
```

Throws:

    java.sql.SQLException

◊ **selectPeers**

```
public Peer[] selectPeers()
                  throws java.sql.SQLException
```

Throws:

    java.sql.SQLException

◊ **enterRoom**

```
private void enterRoom(boolean writer)
```

◊ **leaveRoom**

```
private void leaveRoom(boolean writer)
```

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edu.cse4232.gossip.helper

Class Broadcaster

- java.lang.Object
-    ♦ edu.cse4232.gossip.helper.Broadcaster

- ━━━

```
public class
extends java.lang.Object
```

- ♦

Field Summary

Modifier and Type	Field and Description
private java.net.DatagramSocket	socket

♦ **Constructor Summary**

Constructor and Description
Broadcaster(java.net.DatagramSocket socket)

♦
Method Summary

Modifier and Type	Method and Description
void	broadcast(Peer[] peers, Gossip gossip)

◊
Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait, wait
```

• ♦
Field Detail

◊ **socket**

```
private final java.net.DatagramSocket socket
```

♦
Constructor Detail

◊ **Broadcaster**

```
public Broadcaster(java.net.DatagramSocket socket)
```

♦
Method Detail

◊ **broadcast**

```
public void broadcast(Peer[] peers,
                      Gossip gossip)
               throws java.io.IOException
```

Throws:
java.io.IOException

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Hierarchy For Package edu.cse4232.gossip.server

Package Hierarchies:

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Class Hierarchy

- java.lang.Object
    - ♦ edu.cse4232.gossip.server.<u>PeerWitness</u>
    - ♦ edu.cse4232.gossip.server.<u>Server</u>
    - ♦ edu.cse4232.gossip.server.<u>TCPResponder</u> (implements java.lang.Runnable)
    - ♦ edu.cse4232.gossip.server.<u>TCPServer</u> (implements java.lang.AutoCloseable, java.lang.Runnable)
    - ♦ edu.cse4232.gossip.server.<u>UDPResponder</u> (implements java.lang.Runnable)
    - ♦ edu.cse4232.gossip.server.<u>UDPServer</u> (implements java.lang.AutoCloseable, java.lang.Runnable)

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Package edu.cse4232.gossip.server

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Class	Description
PeerWitness	
Server	
TCPResponder	
TCPServer	
UDPResponder	
UDPServer	

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- Summary:
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- Method

- Detail:
- Field |
- Constr |
- Method

edu.cse4232.gossip.server

Class UDPServer

- java.lang.Object
-     ♦ edu.cse4232.gossip.server.UDPServer

- All Implemented Interfaces:
        java.lang.AutoCloseable, java.lang.Runnable

```
class
extends java.lang.Object
implements java.lang.Runnable, java.lang.AutoCloseable
```

- ♦

Field Summary

Modifier and Type	Field and Description

```
private Logger                    log
private static int                PACKET_SIZE
private java.net.DatagramSocket   udpServer
```

♦
Constructor Summary

Constructor and Description

```
UDPServer(int port)
```

♦
Method Summary

Modifier and Type	Method and Description
void	close()
void	run()

◊
Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait, wait
```

• ♦
Field Detail

◊ **PACKET_SIZE**

```
private static final int PACKET_SIZE
```

See Also:
    Constant Field Values

◊ **udpServer**

```
private java.net.DatagramSocket udpServer
```

◊ **log**

```
private Logger log
```

♦
Constructor Detail

◊ **UDPServer**

```
public UDPServer(int port)
          throws java.net.SocketException
```

Field Summary   53

Throws:
     `java.net.SocketException`

♦

Method Detail

◊ close

```
public void close()
          throws java.lang.Exception
```

Specified by:
     `close` in interface `java.lang.AutoCloseable`

Throws:
     `java.lang.Exception`

◊ run

```
public void run()
```

Specified by:
     `run` in interface `java.lang.Runnable`

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- Method

- Detail:
- Field |
- Constr |
- Method

edu.cse4232.gossip.server

Class UDPResponder

- java.lang.Object
- ♦ edu.cse4232.gossip.server.UDPResponder

- All Implemented Interfaces:
  java.lang.Runnable

```
class
extends java.lang.Object
implements java.lang.Runnable
```

- ♦

Field Summary

Modifier and Type	Field and Description

```
private DataBaseHandler           db

private Logger                    log

private java.net.DatagramPacket   packet

private java.net.DatagramSocket   udpSocket
```

♦
Constructor Summary

Constructor and Description
`UDPResponder(java.net.DatagramPacket packet)`

♦
Method Summary

Modifier and Type	Method and Description
void	`run()`

◊
Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait, wait
```

• ♦
Field Detail

◊ udpSocket

```
private final java.net.DatagramSocket udpSocket
```
◊ packet

```
private final java.net.DatagramPacket packet
```
◊ log

```
private final Logger log
```
◊ db

```
private final DataBaseHandler db
```

♦
Constructor Detail

◊ UDPResponder

```
public UDPResponder(java.net.DatagramPacket packet)
            throws java.net.SocketException
```

Throws:

```
java.net.SocketException
```

- ♦

Method Detail

◊ run

```
public void run()
```

Specified by:
       run in interface java.lang.Runnable

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- Method

- Detail:
- Field |
- Constr |
- Method

edu.cse4232.gossip.server

Class TCPServer

- java.lang.Object
- ♦ edu.cse4232.gossip.server.TCPServer

- All Implemented Interfaces:
        java.lang.AutoCloseable, java.lang.Runnable

```
class
extends java.lang.Object
implements java.lang.Runnable, java.lang.AutoCloseable
```

- ♦

    ## Field Summary

Modifier and Type	Field and Description

```
private Logger                    log
private java.net.ServerSocket tcpServer
```

♦
Constructor Summary

Constructor and Description

```
TCPServer(int port)
```

♦
Method Summary

Modifier and Type	Method and Description
void	close()
void	run()

◊
Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait, wait
```

• ♦
Field Detail

◊ tcpServer

```
private java.net.ServerSocket tcpServer
```
◊ log

```
private Logger log
```

♦
Constructor Detail

◊ TCPServer

```
public TCPServer(int port)
        throws java.io.IOException
```

Throws:
    java.io.IOException

♦
Method Detail

◊ **close**

```
public void close()
            throws java.lang.Exception
```

Specified by:
> close in interface java.lang.AutoCloseable

Throws:
> java.lang.Exception

◊ **run**

```
public void run()
```

Specified by:
> run in interface java.lang.Runnable

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- Field |
- Constr |
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Class TCPResponder

- java.lang.Object
-      ♦ edu.cse4232.gossip.server.TCPResponder

- All Implemented Interfaces:
        java.lang.Runnable

```
class
extends java.lang.Object
implements java.lang.Runnable
```

- ♦

Field Summary

Modifier and Type	Field and Description

```
private static int          BUFFER_SIZE

private DataBaseHandler      db

private java.io.InputStream  is

private Logger               log

private java.io.OutputStream os

private java.net.Socket      sock

private static int           TIME_OUT
```

♦
Constructor Summary

Constructor and Description

TCPResponder(java.net.Socket tcpSocket)

♦
Method Summary

Modifier and Type **Method and Description**

void   run()

◊
Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait, wait
```

• ♦
Field Detail

◊ BUFFER_SIZE

```
private static final int BUFFER_SIZE
```

See Also:
   Constant Field Values
◊ TIME_OUT

```
private static final int TIME_OUT
```

See Also:
   Constant Field Values
◊ sock

```
private final java.net.Socket sock
```

◊ **is**

```
private java.io.InputStream is
```

◊ **os**

```
private java.io.OutputStream os
```

◊ **log**

```
private Logger log
```

◊ **db**

```
private DataBaseHandler db
```

♦
Constructor Detail

◊ **TCPResponder**

```
public TCPResponder(java.net.Socket tcpSocket)
            throws java.io.IOException
```

Throws:
> java.io.IOException

♦
Method Detail

◊ **run**

```
public void run()
```

Specified by:
> run in interface java.lang.Runnable

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edu.cse4232.gossip.server

Class Server

- java.lang.Object
- ◆ edu.cse4232.gossip.server.Server

- ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━

```
public class
extends java.lang.Object
```

- ◆
  ## Field Summary

Modifier and Type	Field and Description
static boolean	<u>APPEND</u>

static boolean	DEBUG_MODE
static java.lang.String	LOG_PATH

♦
Constructor Summary

Constructor and Description
Server()

♦
Method Summary

Modifier and Type	Method and Description
static void	main(java.lang.String... args)

◊
Methods inherited from class java.lang.Object

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

• ♦
Field Detail

◊ **APPEND**

`public static final boolean APPEND`

See Also:
> Constant Field Values

◊ **DEBUG_MODE**

`public static final boolean DEBUG_MODE`

See Also:
> Constant Field Values

◊ **LOG_PATH**

`public static final java.lang.String LOG_PATH`

See Also:
> Constant Field Values

♦
Constructor Detail

◊ **Server**

```
public Server()
```

♦

Method Detail

◊ **main**

```
public static void main(java.lang.String... args)
```

Parameters:
　　`args` - -p [port] -d [database file]s

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Constructor Detail   67

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edu.cse4232.gossip.server

Class PeerWitness

- java.lang.Object
- ♦ edu.cse4232.gossip.server.PeerWitness

- ▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬

```
class
extends java.lang.Object
```

- ♦
    ## Field Summary

Modifier and Type	Field and Description
private static int	PACKET_SIZE

♦ **Constructor Summary**

Constructor and Description

PeerWitness()

♦

Method Summary

Modifier and Type	Method and Description
static void	main(java.lang.String... args)

◊

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

• ♦

Field Detail

◊ **PACKET_SIZE**

private static final int PACKET_SIZE

See Also:
Constant Field Values

♦

Constructor Detail

◊ **PeerWitness**

PeerWitness()

♦

Method Detail

◊ **main**

public static void main(java.lang.String... args)

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Hierarchy For Package edu.cse4232.gossip.client

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Class Hierarchy

- java.lang.Object
  - ♦ edu.cse4232.gossip.client.Client (implements java.lang.Runnable)
  - ♦ edu.cse4232.gossip.client.GossipClientFactory
  - ♦ edu.cse4232.gossip.client.TCPClient (implements edu.cse4232.gossip.client.GossipClient)
  - ♦ edu.cse4232.gossip.client.UDPClient (implements edu.cse4232.gossip.client.GossipClient)

Interface Hierarchy

- edu.cse4232.gossip.client.GossipClient

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Package edu.cse4232.gossip.client

-

Interface	Description
<u>GossipClient</u>	

-

Class	Description
<u>Client</u>	
<u>GossipClientFactory</u>	
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<u>UDPClient</u>	

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edu.cse4232.gossip.client

Class UDPClient

- java.lang.Object
-     ♦ edu.cse4232.gossip.client.UDPClient

- All Implemented Interfaces:
        GossipClient

```
public class
extends java.lang.Object
implements GossipClient
```

- ♦

Field Summary

Modifier and Type	Field and Description

private java.net.SocketAddress	address	
private java.lang.String	host	
private static int	PACKET_SIZE	
private int	port	
private java.net.DatagramSocket	udpSocket	

◊

Fields inherited from interface edu.cse4232.gossip.client.GossipClient

TCP, UDP

♦

Constructor Summary

Constructor and Description
UDPClient(java.lang.String host, int port)

♦

Method Summary

Modifier and Type	Method and Description
void	close()
java.lang.String	getHost()
Peer[]	getPeers()
int	getPort()
java.lang.String	getType()
void	sendGossip(java.lang.String message)
void	sendPeer(java.lang.String name, java.lang.String ip, java.lang.String port)

◊

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

• ♦

Field Detail

◊ PACKET_SIZE

private static final int PACKET_SIZE

See Also:

◊ **udpSocket**

```
private java.net.DatagramSocket udpSocket
```

◊ **address**

```
private java.net.SocketAddress address
```

◊ **host**

```
private java.lang.String host
```

◊ **port**

```
private int port
```

♦

Constructor Detail

◊ **UDPClient**

```
public UDPClient(java.lang.String host,
                 int port)
          throws java.lang.Exception
```

Throws:
    java.lang.Exception

♦

Method Detail

◊ **sendGossip**

```
public void sendGossip(java.lang.String message)
                throws java.security.NoSuchAlgorithmException,
                       java.io.IOException
```

Specified by:
    sendGossip in interface GossipClient
Throws:
    java.security.NoSuchAlgorithmException
    java.io.IOException

◊ **sendPeer**

```
public void sendPeer(java.lang.String name,
                     java.lang.String ip,
                     java.lang.String port)
              throws java.io.IOException
```

Specified by:
    sendPeer in interface GossipClient
Throws:
    java.io.IOException

Field Detail   77

◊ **getPeers**

```
public Peer[] getPeers()
            throws java.io.IOException,
                    net.ddp2p.ASN1.ASN1DecoderFail
```

Specified by:
    getPeers in interface GossipClient
Throws:
    java.io.IOException
    net.ddp2p.ASN1.ASN1DecoderFail

◊ **getHost**

```
public java.lang.String getHost()
```

Specified by:
    getHost in interface GossipClient

◊ **getPort**

```
public int getPort()
```

Specified by:
    getPort in interface GossipClient

◊ **getType**

```
public java.lang.String getType()
```

Specified by:
    getType in interface GossipClient

◊ **close**

```
public void close()
```

Specified by:
    close in interface GossipClient

Method Detail

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edu.cse4232.gossip.client

Class TCPClient

- java.lang.Object
- ♦ edu.cse4232.gossip.client.TCPClient

- All Implemented Interfaces:
      GossipClient

```
public class
extends java.lang.Object
implements GossipClient
```

- ♦
   ## Field Summary

Modifier and Type	Field and Description

private static int	BUFFER_SIZE
private java.lang.String	host
private java.io.InputStream	is
private java.io.OutputStream	os
private int	port
private java.net.Socket	sock

◊

Fields inherited from interface edu.cse4232.gossip.client.GossipClient

TCP, UDP

♦

Constructor Summary

Constructor and Description
TCPClient(java.lang.String host, int port)

♦

Method Summary

Modifier and Type	Method and Description
void	close()
java.lang.String	getHost()
Peer[]	getPeers()
int	getPort()
java.lang.String	getType()
void	sendGossip(java.lang.String message)
void	sendPeer(java.lang.String name, java.lang.String ip, java.lang.String port)

◊

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

• ♦

Field Detail

◊ **BUFFER_SIZE**

```
private static final int BUFFER_SIZE
```

See Also:
>   [Constant Field Values](#)

◊ **sock**

```
private java.net.Socket sock
```

◊ **is**

```
private java.io.InputStream is
```

◊ **os**

```
private java.io.OutputStream os
```

◊ **host**

```
private java.lang.String host
```

◊ **port**

```
private int port
```

♦
Constructor Detail

◊ **TCPClient**

```
public TCPClient(java.lang.String host,
                 int port)
          throws java.io.IOException
```

Throws:
>   java.io.IOException

♦
Method Detail

◊ **sendGossip**

```
public void sendGossip(java.lang.String message)
                throws java.security.NoSuchAlgorithmException,
                       java.io.IOException
```

Specified by:
>   [sendGossip](#) in interface [GossipClient](#)
Throws:
>   java.security.NoSuchAlgorithmException
>   java.io.IOException

◊ **sendPeer**

```
public void sendPeer(java.lang.String name,
                     java.lang.String ip,
                     java.lang.String port)
             throws java.io.IOException
```

Field Detail   82

Specified by:
>   sendPeer in interface GossipClient

Throws:
>   java.io.IOException

◊ getPeers

```
public Peer[] getPeers()
                throws java.io.IOException,
                       net.ddp2p.ASN1.ASN1DecoderFail
```

Specified by:
>   getPeers in interface GossipClient

Throws:
>   java.io.IOException
>   net.ddp2p.ASN1.ASN1DecoderFail

◊ getHost

```
public java.lang.String getHost()
```

Specified by:
>   getHost in interface GossipClient

◊ getPort

```
public int getPort()
```

Specified by:
>   getPort in interface GossipClient

◊ getType

```
public java.lang.String getType()
```

Specified by:
>   getType in interface GossipClient

◊ close

```
public void close()
```

Specified by:
>   close in interface GossipClient

-
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Interface GossipClient

- All Known Implementing Classes:
    TCPClient, UDPClient

```
interface
```

- ♦
    ## Field Summary

Modifier and Type	Field and Description
static int	TCP
static int	UDP

♦ **Method Summary**

Modifier and Type	Method and Description
void	close()
java.lang.String	getHost()
Peer[]	getPeers()
int	getPort()
java.lang.String	getType()
void	sendGossip(java.lang.String message)
void	sendPeer(java.lang.String name, java.lang.String ip, java.lang.String port)

• ♦

Field Detail

◊ **UDP**

```
static final int UDP
```

See Also:
> Constant Field Values

◊ **TCP**

```
static final int TCP
```

See Also:
> Constant Field Values

♦

Method Detail

◊ **sendGossip**

```
void sendGossip(java.lang.String message)
        throws java.lang.Exception
```

Throws:
> java.lang.Exception

◊ **sendPeer**

```
void sendPeer(java.lang.String name,
              java.lang.String ip,
              java.lang.String port)
        throws java.lang.Exception
```

Throws:

```
                     java.lang.Exception
```
◊ getPeers

```
 Peer[] getPeers()
          throws java.lang.Exception
```

Throws:
```
          java.lang.Exception
```
◊ getHost

```
 java.lang.String getHost()
```
◊ getPort

```
 int getPort()
```
◊ getType

```
 java.lang.String getType()
```
◊ close

```
 void close()
```

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- Method

edu.cse4232.gossip.client

Class GossipClientFactory

- java.lang.Object
-     ♦ edu.cse4232.gossip.client.GossipClientFactory

- ━━━━━━━━━━━━━━━━━━━━━━━━━━━━

```
abstract class
extends java.lang.Object
```

-     ♦
  ### Constructor Summary

    #### Constructor and Description

    GossipClientFactory()

⬧ **Method Summary**

Modifier and Type	Method and Description
(package private) static GossipClient	makeClient(java.lang.String host, int port, int type)

◊

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

- ◆

Constructor Detail

◊ **GossipClientFactory**

GossipClientFactory()

◆

Method Detail

◊ **makeClient**

```
static GossipClient makeClient(java.lang.String host,
                               int port,
                               int type)
                        throws java.lang.Exception
```

Throws:
    java.lang.Exception

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edu.cse4232.gossip.client

Class Client

- java.lang.Object
-     ♦ edu.cse4232.gossip.client.Client

- All Implemented Interfaces:
  java.lang.Runnable

```
class
extends java.lang.Object
implements java.lang.Runnable
```

-    ♦

Field Summary

Modifier and Type	Field and Description

private GossipClient	client
private javax.swing.JLabel	connectionMessage
private javax.swing.JButton	gossipButton
private javax.swing.JLabel	gossipLabel
private javax.swing.JPanel	gossipPanel
private javax.swing.JTextField	gossipTextField
private javax.swing.JPanel	innerGossipPanel
private javax.swing.JSplitPane	innerSplitPane
private javax.swing.JFormattedTextField	ipTextField
private javax.swing.JPanel	mainPanel
private javax.swing.JTextField	nameTextField
private javax.swing.JSplitPane	outerSplitPane
private javax.swing.JButton	peerButton
private javax.swing.JLabel	peerLabel
private javax.swing.JPanel	peerPanel
private javax.swing.JList	peersList
private javax.swing.JPanel	peersPanel
private javax.swing.JScrollPane	peersScrollPane
private javax.swing.JFormattedTextField	portTextField
private javax.swing.JButton	resetButton
private static int	STATUS_TIMER
private javax.swing.JLabel	statusMessage
private javax.swing.JPanel	statusPanel
private static java.lang.String	TITLE_ICON

♦
Constructor Summary

Modifier	Constructor and Description
private	Client(GossipClient client)

♦
Method Summary

Modifier and Type	Method and Description
javax.swing.JComponent	$$$getRootComponent$$$()
private void	$$$setupUI$$$()

```
static void              main(java.lang.String[] args)

void                     run()

private void             shutdown(java.lang.Exception ignored)
```
    ◊

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait, wait
```

• ♦

Field Detail

◊ STATUS_TIMER

```
private static final int STATUS_TIMER
```

See Also:
> Constant Field Values

◊ TITLE_ICON

```
private static final java.lang.String TITLE_ICON
```

See Also:
> Constant Field Values

◊ mainPanel

```
private javax.swing.JPanel mainPanel
```

◊ peersList

```
private javax.swing.JList peersList
```

◊ gossipButton

```
private javax.swing.JButton gossipButton
```

◊ resetButton

```
private javax.swing.JButton resetButton
```

◊ nameTextField

```
private javax.swing.JTextField nameTextField
```

◊ ipTextField

```
private javax.swing.JFormattedTextField ipTextField
```

◊ portTextField

```
private javax.swing.JFormattedTextField portTextField
```

◊ peerButton

```
private javax.swing.JButton peerButton
```

Method Summary   93

◊ **gossipTextField**

```
private javax.swing.JTextField gossipTextField
```

◊ **connectionMessage**

```
private javax.swing.JLabel connectionMessage
```

◊ **statusMessage**

```
private javax.swing.JLabel statusMessage
```

◊ **outerSplitPane**

```
private javax.swing.JSplitPane outerSplitPane
```

◊ **statusPanel**

```
private javax.swing.JPanel statusPanel
```

◊ **innerSplitPane**

```
private javax.swing.JSplitPane innerSplitPane
```

◊ **peersPanel**

```
private javax.swing.JPanel peersPanel
```

◊ **gossipLabel**

```
private javax.swing.JLabel gossipLabel
```

◊ **gossipPanel**

```
private javax.swing.JPanel gossipPanel
```

◊ **innerGossipPanel**

```
private javax.swing.JPanel innerGossipPanel
```

◊ **peerPanel**

```
private javax.swing.JPanel peerPanel
```

◊ **peerLabel**

```
private javax.swing.JLabel peerLabel
```

◊ **peersScrollPane**

```
private javax.swing.JScrollPane peersScrollPane
```

◊ **client**

```
private final GossipClient client
```

♦

Constructor Detail

◊ **Client**

```
private Client(GossipClient client)
```

Field Detail   94

♦ **Method Detail**

◊ **main**

```
public static void main(java.lang.String[] args)
```
◊ **run**

```
public void run()
```

Specified by:
   run in interface java.lang.Runnable
◊ **shutdown**

```
private void shutdown(java.lang.Exception ignored)
```
◊ **$$$setupUI$$$**

```
private void $$$setupUI$$$()
```
◊ **$$$getRootComponent$$$**

```
public javax.swing.JComponent $$$getRootComponent$$$()
```

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Constant Field Values

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- edu.cse4232.*

edu.cse4232.*

-

Modifier and Type	Constant Field	Value
private static final int	STATUS_TIMER	5000
private static final java.lang.String	TITLE_ICON	"img/title.png"

-

Modifier and Type	Constant Field	Value
public static final int	TCP	1
public static final int	UDP	0

-

Modifier and Type	Constant Field	Value
private static final int	BUFFER_SIZE	512

-

Modifier and Type	Constant Field	Value
private static final int	PACKET_SIZE	512

API Help

-

Modifier and Type	Constant Field	Value
public static final java.lang.String	DRIVER	"driver"
public static final java.lang.String	NOP	"nop"
public static final java.lang.String	RECV	"recv"
public static final java.lang.String	SENT	"sent"
public static final java.lang.String	SERVER	"server"
public static final java.lang.String	TCP	"tcp"
public static final java.lang.String	UDP	"udp"
public static final java.lang.String	WARN	"warn"

-

Modifier and Type	Constant Field	Value
private static final int	PACKET_SIZE	512

-

Modifier and Type	Constant Field	Value
public static final boolean	APPEND	false
public static final boolean	DEBUG_MODE	true
public static final java.lang.String	LOG_PATH	"server.log"

-

Modifier and Type	Constant Field	Value
private static final int	BUFFER_SIZE	512
private static final int	TIME_OUT	20000

-

Modifier and Type	Constant Field	Value
private static final int	PACKET_SIZE	512

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Frame Alert

This document is designed to be viewed using the frames feature. If you see this message, you are using a non-frame-capable web client. Link to Non-frame version.

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$

$$$getRootComponent$$$() - Method in class edu.cse4232.gossip.client.Client

$$$setupUI$$$() - Method in class edu.cse4232.gossip.client.Client

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A

<u>address</u> - Variable in class edu.cse4232.gossip.client.<u>UDPClient</u>

<u>APPEND</u> - Static variable in class edu.cse4232.gossip.server.<u>Server</u>

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B

broadcast(Peer[], Gossip) - Method in class edu.cse4232.gossip.helper.Broadcaster

Broadcaster - Class in edu.cse4232.gossip.helper

Broadcaster(DatagramSocket) - Constructor for class edu.cse4232.gossip.helper.Broadcaster

BUFFER_SIZE - Static variable in class edu.cse4232.gossip.client.TCPClient

BUFFER_SIZE - Static variable in class edu.cse4232.gossip.server.TCPResponder

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C

Client - Class in edu.cse4232.gossip.client

Client(GossipClient) - Constructor for class edu.cse4232.gossip.client.Client

client - Variable in class edu.cse4232.gossip.client.Client

close() - Method in interface edu.cse4232.gossip.client.GossipClient

close() - Method in class edu.cse4232.gossip.client.TCPClient

close() - Method in class edu.cse4232.gossip.client.UDPClient

close() - Method in class edu.cse4232.gossip.helper.DataBaseHandler

close() - Method in class edu.cse4232.gossip.helper.Logger

close() - Method in class edu.cse4232.gossip.server.TCPServer

close() - Method in class edu.cse4232.gossip.server.UDPServer

connection - Variable in class edu.cse4232.gossip.helper.DataBaseHandler

connectionMessage - Variable in class edu.cse4232.gossip.client.Client

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D

DataBaseHandler - Class in edu.cse4232.gossip.helper

DataBaseHandler(String) - Constructor for class edu.cse4232.gossip.helper.DataBaseHandler

db - Variable in class edu.cse4232.gossip.server.TCPResponder

db - Variable in class edu.cse4232.gossip.server.UDPResponder

DEBUG_MODE - Static variable in class edu.cse4232.gossip.server.Server

debugMode - Variable in class edu.cse4232.gossip.helper.Logger

decode(Decoder) - Method in class edu.cse4232.gossip.asn1.Gossip

decode(Decoder) - Method in class edu.cse4232.gossip.asn1.Leave

decode(Decoder) - Method in class edu.cse4232.gossip.asn1.Peer

decode(Decoder) - Method in class edu.cse4232.gossip.asn1.PeersAnswer

decode(Decoder) - Method in class edu.cse4232.gossip.asn1.PeersQuery

DRIVER - Static variable in class edu.cse4232.gossip.helper.Logger

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E

edu.cse4232.gossip.asn1 - package edu.cse4232.gossip.asn1

edu.cse4232.gossip.client - package edu.cse4232.gossip.client

edu.cse4232.gossip.helper - package edu.cse4232.gossip.helper

edu.cse4232.gossip.server - package edu.cse4232.gossip.server

enterRoom(boolean) - Method in class edu.cse4232.gossip.helper.DataBaseHandler

exists(String) - Method in class edu.cse4232.gossip.helper.DataBaseHandler

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F

fileOutputStream - Variable in class edu.cse4232.gossip.helper.Logger

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G

getEncoder() - Method in class edu.cse4232.gossip.asn1.Gossip

getEncoder() - Method in class edu.cse4232.gossip.asn1.Leave

getEncoder() - Method in class edu.cse4232.gossip.asn1.Peer

getEncoder() - Method in class edu.cse4232.gossip.asn1.PeersAnswer

getEncoder() - Method in class edu.cse4232.gossip.asn1.PeersQuery

getHost() - Method in interface edu.cse4232.gossip.client.GossipClient

getHost() - Method in class edu.cse4232.gossip.client.TCPClient

getHost() - Method in class edu.cse4232.gossip.client.UDPClient

getInstance() - Static method in class edu.cse4232.gossip.helper.DataBaseHandler

getInstance() - Static method in class edu.cse4232.gossip.helper.Logger

getIp() - Method in class edu.cse4232.gossip.asn1.Peer

getMessage() - Method in class edu.cse4232.gossip.asn1.Gossip

getName() - Method in class edu.cse4232.gossip.asn1.Leave

getName() - Method in class edu.cse4232.gossip.asn1.Peer

getPeers() - Method in class edu.cse4232.gossip.asn1.PeersAnswer

getPeers() - Method in interface edu.cse4232.gossip.client.GossipClient

getPeers() - Method in class edu.cse4232.gossip.client.TCPClient

getPeers() - Method in class edu.cse4232.gossip.client.UDPClient

getPort() - Method in class edu.cse4232.gossip.asn1.Peer

getPort() - Method in interface edu.cse4232.gossip.client.GossipClient

getPort() - Method in class edu.cse4232.gossip.client.TCPClient

getPort() - Method in class edu.cse4232.gossip.client.UDPClient

getSha256hash() - Method in class edu.cse4232.gossip.asn1.Gossip

getTimestamp() - Method in class edu.cse4232.gossip.asn1.Gossip

getType() - Method in interface edu.cse4232.gossip.client.GossipClient

getType() - Method in class edu.cse4232.gossip.client.TCPClient

getType() - Method in class edu.cse4232.gossip.client.UDPClient

Gossip - Class in edu.cse4232.gossip.asn1
　　　　[APPLICATION 1] EXPLICIT SEQUENCE {sha256hash OCTET STRING, timestamp
　　　　GeneralizedTime, message UTF8String}
Gossip() - Constructor for class edu.cse4232.gossip.asn1.Gossip

Gossip(String, Calendar, String) - Constructor for class edu.cse4232.gossip.asn1.Gossip

Gossip(String, String) - Constructor for class edu.cse4232.gossip.asn1.Gossip

gossipButton - Variable in class edu.cse4232.gossip.client.Client

GossipClient - Interface in edu.cse4232.gossip.client

GossipClientFactory - Class in edu.cse4232.gossip.client

GossipClientFactory() - Constructor for class edu.cse4232.gossip.client.GossipClientFactory

gossipLabel - Variable in class edu.cse4232.gossip.client.Client

gossipPanel - Variable in class edu.cse4232.gossip.client.Client

gossipTextField - Variable in class edu.cse4232.gossip.client.Client

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H

host - Variable in class edu.cse4232.gossip.client.TCPClient

host - Variable in class edu.cse4232.gossip.client.UDPClient

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W

WARN - Static variable in class edu.cse4232.gossip.helper.Logger

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U

UDP - Static variable in interface edu.cse4232.gossip.client.GossipClient

UDP - Static variable in class edu.cse4232.gossip.helper.Logger

UDPClient - Class in edu.cse4232.gossip.client

UDPClient(String, int) - Constructor for class edu.cse4232.gossip.client.UDPClient

UDPResponder - Class in edu.cse4232.gossip.server

UDPResponder(DatagramPacket) - Constructor for class edu.cse4232.gossip.server.UDPResponder

UDPServer - Class in edu.cse4232.gossip.server

UDPServer(int) - Constructor for class edu.cse4232.gossip.server.UDPServer

udpServer - Variable in class edu.cse4232.gossip.server.UDPServer

udpSocket - Variable in class edu.cse4232.gossip.client.UDPClient

udpSocket - Variable in class edu.cse4232.gossip.server.UDPResponder

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T

TAG - Static variable in class edu.cse4232.gossip.asn1.Gossip

TAG - Static variable in class edu.cse4232.gossip.asn1.Leave

TAG - Static variable in class edu.cse4232.gossip.asn1.Peer

TAG - Static variable in class edu.cse4232.gossip.asn1.PeersAnswer

TAG - Static variable in class edu.cse4232.gossip.asn1.PeersQuery

TCP - Static variable in interface edu.cse4232.gossip.client.GossipClient

TCP - Static variable in class edu.cse4232.gossip.helper.Logger

TCPClient - Class in edu.cse4232.gossip.client

TCPClient(String, int) - Constructor for class edu.cse4232.gossip.client.TCPClient

TCPResponder - Class in edu.cse4232.gossip.server

TCPResponder(Socket) - Constructor for class edu.cse4232.gossip.server.TCPResponder

TCPServer - Class in edu.cse4232.gossip.server

TCPServer(int) - Constructor for class edu.cse4232.gossip.server.TCPServer

tcpServer - Variable in class edu.cse4232.gossip.server.TCPServer

TIME_OUT - Static variable in class edu.cse4232.gossip.server.TCPResponder

timestamp - Variable in class edu.cse4232.gossip.asn1.Gossip

TITLE_ICON - Static variable in class edu.cse4232.gossip.client.Client

toFancyString() - Method in class edu.cse4232.gossip.asn1.Peer

toString() - Method in class edu.cse4232.gossip.asn1.Gossip

toString() - Method in class edu.cse4232.gossip.asn1.Peer

toString() - Method in class edu.cse4232.gossip.asn1.PeersAnswer

toString() - Method in class edu.cse4232.gossip.asn1.PeersQuery

turnstile - Variable in class edu.cse4232.gossip.helper.DataBaseHandler

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S

selectPeers() - Method in class edu.cse4232.gossip.helper.DataBaseHandler

sendGossip(String) - Method in interface edu.cse4232.gossip.client.GossipClient

sendGossip(String) - Method in class edu.cse4232.gossip.client.TCPClient

sendGossip(String) - Method in class edu.cse4232.gossip.client.UDPClient

sendPeer(String, String, String) - Method in interface edu.cse4232.gossip.client.GossipClient

sendPeer(String, String, String) - Method in class edu.cse4232.gossip.client.TCPClient

sendPeer(String, String, String) - Method in class edu.cse4232.gossip.client.UDPClient

SENT - Static variable in class edu.cse4232.gossip.helper.Logger

SERVER - Static variable in class edu.cse4232.gossip.helper.Logger

Server - Class in edu.cse4232.gossip.server

Server() - Constructor for class edu.cse4232.gossip.server.Server

sha256hash - Variable in class edu.cse4232.gossip.asn1.Gossip

shutdown(Exception) - Method in class edu.cse4232.gossip.client.Client

sock - Variable in class edu.cse4232.gossip.client.TCPClient

sock - Variable in class edu.cse4232.gossip.server.TCPResponder

socket - Variable in class edu.cse4232.gossip.helper.Broadcaster

STATUS_TIMER - Static variable in class edu.cse4232.gossip.client.Client

statusMessage - Variable in class edu.cse4232.gossip.client.Client

statusPanel - Variable in class edu.cse4232.gossip.client.Client

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R

recreate() - Method in class edu.cse4232.gossip.helper.DataBaseHandler

RECV - Static variable in class edu.cse4232.gossip.helper.Logger

removeUser(String) - Method in class edu.cse4232.gossip.helper.DataBaseHandler

resetButton - Variable in class edu.cse4232.gossip.client.Client

room - Variable in class edu.cse4232.gossip.helper.DataBaseHandler

run() - Method in class edu.cse4232.gossip.client.Client

run() - Method in class edu.cse4232.gossip.server.TCPResponder

run() - Method in class edu.cse4232.gossip.server.TCPServer

run() - Method in class edu.cse4232.gossip.server.UDPResponder

run() - Method in class edu.cse4232.gossip.server.UDPServer

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P

packet - Variable in class edu.cse4232.gossip.server.UDPResponder

PACKET_SIZE - Static variable in class edu.cse4232.gossip.client.UDPClient

PACKET_SIZE - Static variable in class edu.cse4232.gossip.server.PeerWitness

PACKET_SIZE - Static variable in class edu.cse4232.gossip.server.UDPServer

Peer - Class in edu.cse4232.gossip.asn1
  [APPLICATION 2] IMPLICIT SEQUENCE {name UTF8String, port INTEGER, ip PrintableString}
Peer() - Constructor for class edu.cse4232.gossip.asn1.Peer

Peer(String, int, String) - Constructor for class edu.cse4232.gossip.asn1.Peer

peerButton - Variable in class edu.cse4232.gossip.client.Client

peerLabel - Variable in class edu.cse4232.gossip.client.Client

peerPanel - Variable in class edu.cse4232.gossip.client.Client

peers - Variable in class edu.cse4232.gossip.asn1.PeersAnswer

PeersAnswer - Class in edu.cse4232.gossip.asn1
  [1] EXPLICIT SEQUENCE OF Peer
PeersAnswer() - Constructor for class edu.cse4232.gossip.asn1.PeersAnswer

PeersAnswer(Peer[]) - Constructor for class edu.cse4232.gossip.asn1.PeersAnswer

peersList - Variable in class edu.cse4232.gossip.client.Client

peersPanel - Variable in class edu.cse4232.gossip.client.Client

PeersQuery - Class in edu.cse4232.gossip.asn1
     [APPLICATION 3] IMPLICIT NULL
PeersQuery() - Constructor for class edu.cse4232.gossip.asn1.PeersQuery

peersScrollPane - Variable in class edu.cse4232.gossip.client.Client

PeerWitness - Class in edu.cse4232.gossip.server

PeerWitness() - Constructor for class edu.cse4232.gossip.server.PeerWitness

port - Variable in class edu.cse4232.gossip.asn1.Peer

port - Variable in class edu.cse4232.gossip.client.TCPClient

port - Variable in class edu.cse4232.gossip.client.UDPClient

portTextField - Variable in class edu.cse4232.gossip.client.Client

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O

os - Variable in class edu.cse4232.gossip.client.TCPClient

os - Variable in class edu.cse4232.gossip.server.TCPResponder

outerSplitPane - Variable in class edu.cse4232.gossip.client.Client

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N

<u>name</u> - Variable in class edu.cse4232.gossip.asn1.<u>Leave</u>

<u>name</u> - Variable in class edu.cse4232.gossip.asn1.<u>Peer</u>

<u>nameTextField</u> - Variable in class edu.cse4232.gossip.client.<u>Client</u>

<u>NOP</u> - Static variable in class edu.cse4232.gossip.helper.<u>Logger</u>

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M

main(String[]) - Static method in class edu.cse4232.gossip.client.Client

main(String...) - Static method in class edu.cse4232.gossip.server.PeerWitness

main(String...) - Static method in class edu.cse4232.gossip.server.Server

mainPanel - Variable in class edu.cse4232.gossip.client.Client

makeClient(String, int, int) - Static method in class edu.cse4232.gossip.client.GossipClientFactory

message - Variable in class edu.cse4232.gossip.asn1.Gossip

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L

Leave - Class in edu.cse4232.gossip.asn1
        [APPLICATION 4] EXPLICIT SEQUENCE {name UTF8String}
Leave() - Constructor for class edu.cse4232.gossip.asn1.Leave

leaveRoom(boolean) - Method in class edu.cse4232.gossip.helper.DataBaseHandler

leavestile - Variable in class edu.cse4232.gossip.helper.DataBaseHandler

log(Exception) - Method in class edu.cse4232.gossip.helper.Logger

log(String) - Method in class edu.cse4232.gossip.helper.Logger

log(String, String, String, String) - Method in class edu.cse4232.gossip.helper.Logger

log - Variable in class edu.cse4232.gossip.server.TCPResponder

log - Variable in class edu.cse4232.gossip.server.TCPServer

log - Variable in class edu.cse4232.gossip.server.UDPResponder

log - Variable in class edu.cse4232.gossip.server.UDPServer

LOG_PATH - Static variable in class edu.cse4232.gossip.server.Server

Logger - Class in edu.cse4232.gossip.helper

Logger(String, boolean, boolean) - Constructor for class edu.cse4232.gossip.helper.Logger

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JavaScript is disabled on your browser.

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Initialize(String) - Static method in class edu.cse4232.gossip.helper.DataBaseHandler

Initialize() - Static method in class edu.cse4232.gossip.helper.Logger

innerGossipPanel - Variable in class edu.cse4232.gossip.client.Client

innerSplitPane - Variable in class edu.cse4232.gossip.client.Client

inRoom - Variable in class edu.cse4232.gossip.helper.DataBaseHandler

insertGossip(String, String, String) - Method in class edu.cse4232.gossip.helper.DataBaseHandler

insertPeer(String, String, String) - Method in class edu.cse4232.gossip.helper.DataBaseHandler

instance() - Method in class edu.cse4232.gossip.asn1.Peer

instance - Static variable in class edu.cse4232.gossip.helper.DataBaseHandler

instance - Static variable in class edu.cse4232.gossip.helper.Logger

ip - Variable in class edu.cse4232.gossip.asn1.Peer

ipTextField - Variable in class edu.cse4232.gossip.client.Client

is - Variable in class edu.cse4232.gossip.client.TCPClient

is - Variable in class edu.cse4232.gossip.server.TCPResponder

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