

Remote Shell

1.0

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

ss.shell.BuiltInProcess	5
ss.shell.utils.BuiltIns	8
ss.shell.client.ClientApplication	10
ss.shell.utils.Filesystem	11
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Whether to store the logged output to the logs file	26
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The different types of user groups	27

Chapter 3

Class Documentation

3.1 ss.shell.BuiltInProcess Class Reference

Public Member Functions

- **BuiltInProcess** (String username, String cwd, UserTypes type, ShellType shellType)
Constructor for the class.
- **BuiltInProcess** (String username, String cwd, UserTypes type, boolean isLoggedIn, ShellType shellType)
Override constructor for the class.
- String **getUsername** ()
Gets the username of the current user.
- String **getCWD** ()
Gets the cwd of the current user.
- UserTypes **getUserType** ()
Gets the user type of the current user.
- boolean **getIsLoggedIn** ()
Gets the boolean of if the user is logged in or not.
- String **getLogsOutput** ()
Gets the output logs object.
- void **execute** (String[] command)
Execute the correct command based on command.

3.1.1 Constructor & Destructor Documentation

3.1.1.1 BuiltInProcess() [1/2]

```
ss.shell.BuiltInProcess.BuiltInProcess (
    String username,
    String cwd,
    UserTypes type,
    ShellType shellType )
```

Constructor for the class.

Parameters

<i>username</i>	The current username. "guest" is default.
<i>cwd</i>	The current working directory. Home path is default.
<i>type</i>	The current type of the user. "standard" is default.
<i>shellType</i>	The type of shell being run. "remote" or "local".

3.1.1.2 BuiltInProcess() [2/2]

```

ss.shell.BuiltInProcess.BuiltInProcess (
    String username,
    String cwd,
    UserTypes type,
    boolean isLoggedIn,
    ShellType shellType )

```

Override constructor for the class.

Parameters

<i>username</i>	The current username. "guest" is default.
<i>cwd</i>	The current working directory. Home path is default.
<i>type</i>	The current type of the user. "standard" is default.
<i>is↵LoggedIn</i>	If the user is logged in or not.
<i>shellType</i>	The type of shell being run. "remote" or "local".

3.1.2 Member Function Documentation**3.1.2.1 getCWD()**

```
String ss.shell.BuiltInProcess.getCWD ( )
```

Gets the cwd of the current user.

Returns

cwd of the current user.

3.1.2.2 getIsLoggedIn()

```
boolean ss.shell.BuiltInProcess.getIsLoggedIn ( )
```

Gets the boolean of if the user is logged in or not.

Returns

the boolean of if the user is logged in or not.

3.1.2.3 getLogsOutput()

```
String ss.shell.BuiltInProcess.getLogsOutput ( )
```

Gets the output logs object.

Returns

the output logs object.

3.1.2.4 getUsername()

```
String ss.shell.BuiltInProcess.getUsername ( )
```

Gets the username of the current user.

Returns

username of the current user.

3.1.2.5 getUserType()

```
UserTypes ss.shell.BuiltInProcess.getUserType ( )
```

Gets the user type of the current user.

Returns

user type of the current user.

The documentation for this class was generated from the following file:

- Shell/src/main/java/ss/shell/BuiltInProcess.java

3.2 ss.shell.utils.BuiltIns Class Reference

Classes

- enum **ShellType**
The different types of shells that can be run on this program.
- enum **UserTypes**
The different types of user groups.

Static Public Member Functions

- static boolean **isBuiltIn** (String command)
Check if a command is a built-in command.
- static boolean **isProcessBuilder** (String command)
Check if a command is a process builder command.

Static Public Attributes

- static final String **SUPER** = "super"
Built in commands.
- static final String **ADDUSER** = "adduser"
- static final String **DELUSER** = "deluser"
- static final String **LISTUSERS** = "listusers"
- static final String **CHPASS** = "chpass"
- static final String **CHUSERTYPE** = "chusertype"
- static final String **LOGIN** = "login"
- static final String **LOGOUT** = "logout"
- static final String **WHOAMI** = "whoami"
- static final String **MOVE** = "move"
- static final String **COPY** = "copy"
- static final String **CD** = "cd"
- static final String **SHOWDIR** = "showdir"
- static final String **HELP** = "help"
- static final String **HISTORY** = "history"
- static final String[] **COMMANDS** = { **SUPER**, **ADDUSER**, **DELUSER**, **LISTUSERS**, **CHPASS**, **CHUSERT**↵
YPE, **LOGIN**, **LOGOUT**, **WHOAMI**, **MOVE**, **COPY**, **CD**, **SHOWDIR**, **HELP**, **HISTORY**}
- static final String[] **DESCS** = {**SUPER_DESC**, **ADDUSER_DESC**, **DELUSER_DESC**, **LISTUSERS_DESC**,
CHPASS_DESC, **CHUSERTYPE_DESC**, **LOGIN_DESC**, **LOGOUT_DESC**, **WHOAMI_DESC**, **MOVE_DE**↵
SC, **COPY_DESC**, **CD_DESC**, **SHOWDIR_DESC**, **HELP_DESC**, **HISTORY_DESC**}
- static final String **PB_LS** = "ls"
Process builder allowed commands.
- static final String **PB_CP** = "cp"
- static final String **PB_MV** = "mv"
- static final String **PB_MKDIR** = "mkdir"
- static final String **PB_RMDIR** = "rmdir"
- static final String **PB_HELP** = "help"
- static final String **PB_PWD** = "pwd"
- static final String **PB_PS** = "ps"
- static final String **PB_WHICH** = "which"
- static final String[] **PB_COMMANDS** = { **PB_LS**, **PB_CP**, **PB_MV**, **PB_MKDIR**, **PB_RMDIR**, **PB_HELP**, **P**↵
B_PWD, **PB_PS**, **PB_WHICH**}
- static final String[] **PB_DESCS** = {**PB_LS_DESC**, **PB_CP_DESC**, **PB_MV_DESC**, **PB_MKDIR_DESC**, **P**↵
B_RMDIR_DESC, **PB_HELP_DESC**, **PB_PWD_DESC**, **PB_PS_DESC**, **PB_WHICH_DESC**}
- static String **HOME_PATH** = System.getProperty("user.dir") + "/src/main/resources/home/"

3.2.1 Member Function Documentation

3.2.1.1 isBuiltIn()

```
static boolean ss.shell.utils.BuiltIns.isBuiltIn (
    String command ) [static]
```

Check if a command is a built-in command.

Parameters

<i>command</i>	Command to check.
----------------	-------------------

Returns

True if command is a built-in command.

3.2.1.2 isProcessBuilder()

```
static boolean ss.shell.utils.BuiltIns.isProcessBuilder (
    String command ) [static]
```

Check if a command is a process builder command.

Parameters

<i>command</i>	Command to check.
----------------	-------------------

Returns

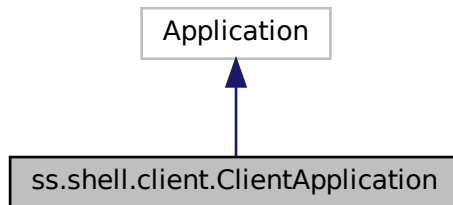
True if command is a process builder command.

The documentation for this class was generated from the following file:

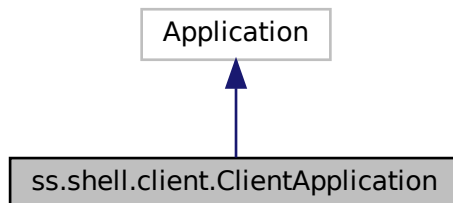
- Shell/src/main/java/ss/shell/utils/BuiltIns.java

3.3 ss.shell.client.ClientApplication Class Reference

Inheritance diagram for ss.shell.client.ClientApplication:



Collaboration diagram for ss.shell.client.ClientApplication:



Public Member Functions

- void **start** (Stage stage)

Static Public Member Functions

- static void **main** (String[] args)

The documentation for this class was generated from the following file:

- Shell/src/main/java/ss/shell/client/ClientApplication.java

3.4 ss.shell.utils.Filesystem Class Reference

Public Member Functions

- **Filesystem** (String username, String password, UserTypes type, ShellType shellType)
*Constructor for the **Filesystem** (p. 11) class.*
- **Filesystem** (String cwd)
*Override constructor for the **Filesystem** (p. 11) class.*
- boolean **login** ()
Logging in needs to check if the user has a directory and if they do, check if the password matches the user info file.
- void **createUser** ()
Creating a user needs to check if the user has a directory.
- void **deleteUser** ()
Deletes the user directory and all of its contents.
- String **getPassword** ()
Gets the current password of the user.
- BuiltIns.UserTypes **getUserType** ()
Gets the current group type of the user.
- boolean **changePassword** (String newPassword)
Change the password for the user.
- boolean **changeUserType** (BuiltIns.UserTypes newType)
Change the group type for the user.
- boolean **hasDirectory** ()
Check if the user has a directory already.
- String[] **getDirsInUserDir** ()
Gets the directories in the user's directory.
- File[] **getLogs** (String filename)
Gets the log files in the home directory (where they are stored).
- String[] **getLogOutput** (File[] logFiles)
Returns the lines inside the log files provided.
- String[] **listUsers** (File[] userFiles)
Lists the users from the user files in the home directory.
- String **getLogsOutput** ()
Gets the output logs object.

Static Public Member Functions

- static File[] **getUserFiles** ()
Gets all the user files from the home directory.

3.4.1 Constructor & Destructor Documentation

3.4.1.1 Filesystem() [1/2]

```
ss.shell.utils.Filesystem.Filesystem (
    String username,
    String password,
    UserTypes type,
    ShellType shellType )
```

Constructor for the **Filesystem** (p. 11) class.

Parameters

<i>username</i>	The username of the user.
<i>password</i>	The password of the user (hashed).
<i>type</i>	The group type of the user.
<i>shellType</i>	The type of shell being run for.

3.4.1.2 Filesystem() [2/2]

```
ss.shell.utils.Filesystem.Filesystem (  
    String cwd )
```

Override constructor for the **Filesystem** (p. 11) class.

Parameters

<i>cwd</i>	The current working directory of the user.
------------	--

3.4.2 Member Function Documentation**3.4.2.1 changePassword()**

```
boolean ss.shell.utils.Filesystem.changePassword (  
    String newPassword )
```

Change the password for the user.

Parameters

<i>newPassword</i>	the new password for the user.
--------------------	--------------------------------

Returns

true if the password was changed successfully.

3.4.2.2 changeUserType()

```
boolean ss.shell.utils.Filesystem.changeUserType (  
    BuiltIns.UserTypes newType )
```

Change the group type for the user.

Parameters

<i>newType</i>	the new group type for the user.
----------------	----------------------------------

Returns

true if the change was successful.

3.4.2.3 deleteUser()

```
void ss.shell.utils.Filesystem.deleteUser ( )
```

Deletes the user directory and all of its contents.

Also deletes the user info file.

3.4.2.4 getDirsInUserDir()

```
String [] ss.shell.utils.Filesystem.getDirsInUserDir ( )
```

Gets the directories in the user's directory.

Returns

list of directory names.

3.4.2.5 getLogOutput()

```
String [] ss.shell.utils.Filesystem.getLogOutput (
    File[] logFiles )
```

Returns the lines inside the log files provided.

Parameters

<i>logFiles</i>	the log files to read.
-----------------	------------------------

Returns

the lines inside the log files.

3.4.2.6 getLogs()

```
File [] ss.shell.utils.Filesystem.getLogs (
    String filename )
```

Gets the log files in the home directory (where they are stored).

Parameters

<i>filename</i>	the name of the log file to find.
-----------------	-----------------------------------

Returns

the log file if it exists.

3.4.2.7 getLogsOutput()

```
String ss.shell.utils.Filesystem.getLogsOutput ( )
```

Gets the output logs object.

Returns

the output logs object.

3.4.2.8 getPassword()

```
String ss.shell.utils.Filesystem.getPassword ( )
```

Gets the current password of the user.

Returns

the current password of the user.

3.4.2.9 getUserFiles()

```
static File [] ss.shell.utils.Filesystem.getUserFiles ( ) [static]
```

Gets all the user files from the home directory.

Returns

the user files.

3.4.2.10 getUserType()

```
BuiltIns.UserTypes ss.shell.utils.Filesystem.getUserType ( )
```

Gets the current group type of the user.

Returns

the current group type of the user.

3.4.2.11 hasDirectory()

```
boolean ss.shell.utils.Filesystem.hasDirectory ( )
```

Check if the user has a directory already.

Returns

true if the user has a directory.

3.4.2.12 listUsers()

```
String [ ] ss.shell.utils.Filesystem.listUsers (
    File [ ] userFiles )
```

Lists the users from the user files in the home directory.

Parameters

<i>userFiles</i>	the user files to read.
------------------	-------------------------

Returns

the users from the user files.

3.4.2.13 login()

```
boolean ss.shell.utils.Filesystem.login ( )
```

Logging in needs to check if the user has a directory and if they do, check if the password matches the user info file.

Returns

true if the user has a directory and the password matches.

The documentation for this class was generated from the following file:

- Shell/src/main/java/ss/shell/Utils/Filesystem.java

3.5 ss.shell.utils.Logs.LogLevel Enum Reference

The severity level of the logs.

Public Attributes

- **INFO**
- **WARNING**
- **ERROR**

3.5.1 Detailed Description

The severity level of the logs.

The documentation for this enum was generated from the following file:

- Shell/src/main/java/ss/shell/Utils/Logs.java

3.6 ss.shell.utils.Logs Class Reference

Classes

- enum **LogLevel**
The severity level of the logs.
- enum **Store**
Whether to store the logged output to the logs file.

Public Member Functions

- void **outputPrompt** (String prompt, **Store** store)
Add the HTML prompt to the total output.
- void **outputShort** (String output, **Store** store)
Add the HTML short to the total output.
- void **outputInfo** (String output, **Store** store, **LogLevel** level)
Add the HTML info to the total output.
- String **getOuterTop** ()
Get the top of the HTML string.
- String **getOuterBottom** ()
Get the bottom of the HTML string.
- String **getOutputTotal** ()
Get the total output HTML.
- void **addToOutputTotal** (String output)
Directly add extra text to the total output string.

Static Public Member Functions

- static void **printLine** (String text, **Store** store)
*Prints a line (with
) of text and stores output in the logs file.*
- static void **printLine** (String text, **LogLevel** level)
*Prints a line (with
) of text and stores output in the logs file.*
- static void **print** (String text, **Store** store)
Prints a line of text and stores output in the logs file.
- static void **logToFile** (String text)
Stores text in the logs file with a date and time stamp.
- static void **logToFile** (String[] text)
Stores text in the logs file with a date and time stamp.
- static String **getTwoDigits** (int input)
Returns the full 2 digits of input string.

3.6.1 Member Function Documentation

3.6.1.1 addToOutputTotal()

```
void ss.shell.utils.Logs.addToOutputTotal (
    String output )
```

Directly add extra text to the total output string.

Parameters

<i>output</i>	Text to add.
---------------	--------------

3.6.1.2 getOuterBottom()

```
String ss.shell.utils.Logs.getOuterBottom ( )
```

Get the bottom of the HTML string.

Returns

The bottom of the HTML string.

3.6.1.3 getOuterTop()

```
String ss.shell.utils.Logs.getOuterTop ( )
```

Get the top of the HTML string.

Returns

The top of the HTML string.

3.6.1.4 getOutputTotal()

```
String ss.shell.utils.Logs.getOutputTotal ( )
```

Get the total output HTML.

Returns

The whole HTML string to output.

3.6.1.5 getTwoDigits()

```
static String ss.shell.utils.Logs.getTwoDigits (
    int input ) [static]
```

Returns the full 2 digits of input string.

Parameters

<i>input</i>	Input int.
--------------	------------

Returns

Input string with 2 digits.

3.6.1.6 logToFile() [1/2]

```
static void ss.shell.utils.Logs.logToFile (
    String text ) [static]
```

Stores text in the logs file with a date and time stamp.

Parameters

<i>text</i>	Input text.
-------------	-------------

3.6.1.7 logToFile() [2/2]

```
static void ss.shell.utils.Logs.logToFile (
    String[] text ) [static]
```

Stores text in the logs file with a date and time stamp.

Parameters

<i>text</i>	Input text.
-------------	-------------

3.6.1.8 outputInfo()

```
void ss.shell.utils.Logs.outputInfo (
    String output,
    Store store,
    LogLevel level )
```

Add the HTML info to the total output.

Parameters

<i>output</i>	Output.
<i>store</i>	Whether to store the output to logs.
<i>level</i>	Log level.

3.6.1.9 outputPrompt()

```
void ss.shell.utils.Logs.outputPrompt (
    String prompt,
    Store store )
```

Add the HTML prompt to the total output.

Parameters

<i>prompt</i>	Prompt to output.
<i>store</i>	Whether to store the output to logs.

3.6.1.10 outputShort()

```
void ss.shell.utils.Logs.outputShort (
    String output,
    Store store )
```

Add the HTML short to the total output.

Parameters

<i>output</i>	Output.
<i>store</i>	Whether to store the output to logs.

3.6.1.11 print()

```
static void ss.shell.utils.Logs.print (
    String text,
    Store store ) [static]
```

Prints a line of text and stores output in the logs file.

Parameters

<i>text</i>	Input text.
<i>store</i>	Store (p. 26) output in logs file.

3.6.1.12 printLine() [1/2]

```
static void ss.shell.utils.Logs.printLine (
    String text,
    LogLevel level ) [static]
```

Prints a line (with
) of text and stores output in the logs file.

Parameters

<i>text</i>	Input text.
<i>level</i>	Log level.

3.6.1.13 printLine() [2/2]

```
static void ss.shell.utils.Logs.printLine (
    String text,
    Store store ) [static]
```

Prints a line (with
) of text and stores output in the logs file.

Parameters

<i>text</i>	Input text.
<i>store</i>	Tell it not to store output in logs file.

The documentation for this class was generated from the following file:

- Shell/src/main/java/ss/shell/utils/Logs.java

3.7 ss.shell.Shell Class Reference

Public Member Functions

- **Shell** (String input, String username, String cwd, UserTypes type, boolean isLoggedIn)
Constructor for the class.
- void **prompt** ()
Constructor method for the class.
- boolean **getDoExit** ()
Gets the exit status.
- String **getUsername** ()
Gets the username of the current user.
- String **getCWD** ()
Gets the cwd of the current user.
- UserTypes **getUserType** ()
Gets the user type of the current user.
- boolean **getIsLoggedIn** ()
Gets the boolean of if the user is logged in or not.
- String **getOutput** ()
Gets the total output of all the html from the logs object.

3.7.1 Constructor & Destructor Documentation

3.7.1.1 Shell()

```
ss.shell.Shell.Shell (
    String input,
    String username,
    String cwd,
    UserTypes type,
    boolean isLoggedIn )
```

Constructor for the class.

Parameters

<i>input</i>	The user input from the form.
<i>username</i>	The current username. "guest" is default.
<i>cwd</i>	The current working directory. Home path is default.
<i>type</i>	The current type of the user. "standard" is default.
<i>is↔ LoggedIn</i>	If the user is logged in or not.

3.7.2 Member Function Documentation

3.7.2.1 getCWD()

```
String ss.shell.Shell.getCWD ( )
```

Gets the cwd of the current user.

Returns

cwd of the current user.

3.7.2.2 getDoExit()

```
boolean ss.shell.Shell.getDoExit ( )
```

Gets the exit status.

Returns

if the user has entered an exit command.

3.7.2.3 getIsLoggedIn()

```
boolean ss.shell.Shell.getIsLoggedIn ( )
```

Gets the boolean of if the user is logged in or not.

Returns

the boolean of if the user is logged in or not.

3.7.2.4 getOutput()

```
String ss.shell.Shell.getOutput ( )
```

Gets the total output of all the html from the logs object.

Returns

the output html.

3.7.2.5 getUsername()

```
String ss.shell.Shell.getUsername ( )
```

Gets the username of the current user.

Returns

username of the current user.

3.7.2.6 getUserType()

```
UserTypes ss.shell.Shell.getUserType ( )
```

Gets the user type of the current user.

Returns

user type of the current user.

3.7.2.7 prompt()

```
void ss.shell.Shell.prompt ( )
```

Constructor method for the class.

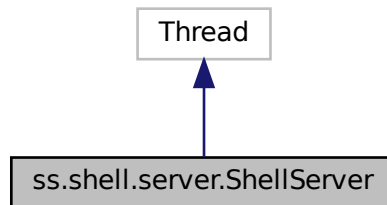
Handles all the logic to do with picking the command type.

The documentation for this class was generated from the following file:

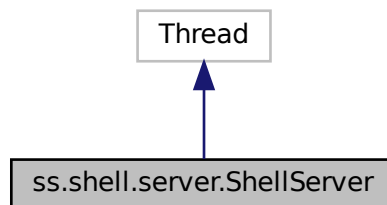
- Shell/src/main/java/ss/shell/Shell.java

3.8 ss.shell.server.ShellServer Class Reference

Inheritance diagram for ss.shell.server.ShellServer:



Collaboration diagram for ss.shell.server.ShellServer:



Public Member Functions

- **ShellServer** (String name, int port)
ShellServer (p. 24) constructor.
- void **run** ()
Run the server (overrides thread runnable).
- void **stopServer** (ServerSocket server)
Stops the server.

Static Public Member Functions

- static void **main** (String[] args)
Starts the servers.

3.8.1 Detailed Description

Author

pedro
Joshua

3.8.2 Constructor & Destructor Documentation

3.8.2.1 ShellServer()

```
ss.shell.server.ShellServer.ShellServer (
    String name,
    int port )
```

ShellServer (p. 24) constructor.

Parameters

<i>name</i>	The name of the server.
<i>port</i>	The port to listen on.

3.8.3 Member Function Documentation

3.8.3.1 main()

```
static void ss.shell.server.ShellServer.main (
    String[] args ) [static]
```

Starts the servers.

Parameters

<i>args</i>	Java main args.
-------------	-----------------

3.8.3.2 stopServer()

```
void ss.shell.server.ShellServer.stopServer (
    ServerSocket server )
```

Stops the server.

Parameters

<i>server</i>	The socket to close.
---------------	----------------------

The documentation for this class was generated from the following file:

- Shell/src/main/java/ss/shell/server/ShellServer.java

3.9 ss.shell.utils.BuiltIns.ShellType Enum Reference

The different types of shells that can be run on this program.

Public Attributes

- LOCAL
- REMOTE

3.9.1 Detailed Description

The different types of shells that can be run on this program.

The documentation for this enum was generated from the following file:

- Shell/src/main/java/ss/shell/utils/BuiltIns.java

3.10 ss.shell.utils.Logs.Store Enum Reference

Whether to store the logged output to the logs file.

Public Attributes

- YES
- NO

3.10.1 Detailed Description

Whether to store the logged output to the logs file.

The documentation for this enum was generated from the following file:

- Shell/src/main/java/ss/shell/utils/Logs.java

3.11 ss.shell.utils.BuiltIns.UserTypes Enum Reference

The different types of user groups.

Public Attributes

- STANDARD
- SUPERUSER

3.11.1 Detailed Description

The different types of user groups.

The documentation for this enum was generated from the following file:

- Shell/src/main/java/ss/shell/utils/BuiltIns.java

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