



**Athens University of Economics and Business**  
**Department of Management Science and Technology**



## Advanced Topics in Software Engineering

HomeAlone

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# UPM-SWING → Universal Password Manager 1/2

- A cross-platform application which provide an easy way to manage our usernames and passwords
- Our usernames and passwords are stored into a strong encrypted DB using an AES(Advanced Encryption Standard) 128-bit encryption method
- Utilize java swing(GUI library) to provide a user-friendly environment
- Provide two functions which copy the username and password of each account directly(without selection)
- Provide multi-device synchronization of a user's database(The DB should be on cloud ex Dropbox)

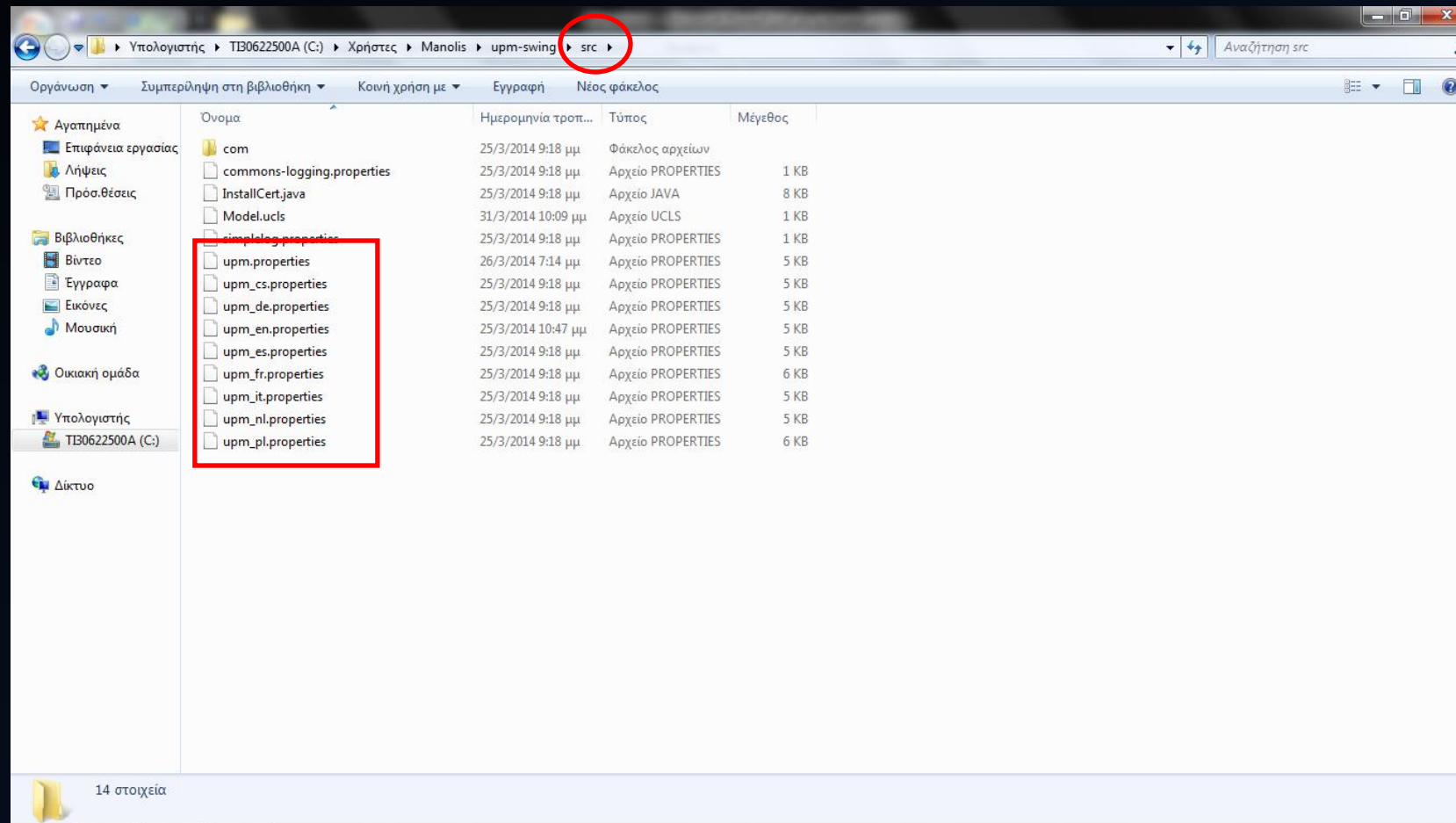
# UPM-SWING → Universal Password Manager 2/2

- Provide password generator which generate relatively strong passwords.

## Benefits

- Faster login throughout the copy on clipboard functions
- Motivate us to use stronger passwords for enhanced safety (we just have to remember the password-key that our DB is encrypted)
- Streamlined for those who are more comfortable using the keyboard only (ex CTRL+A → New Account)

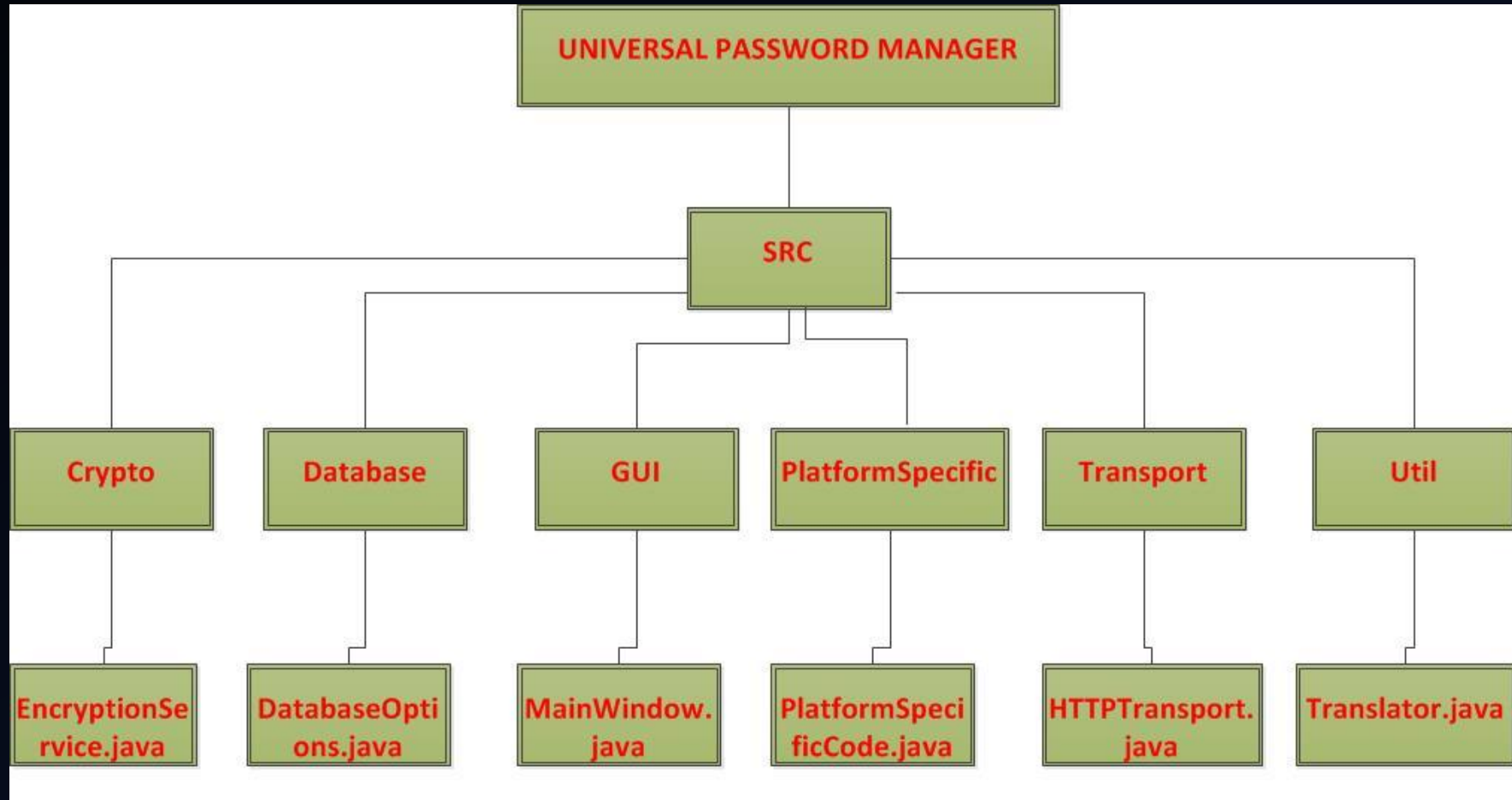
# Code Structure 1/2



# Code Structure (Modules) 2/2

Packages:

Classes:



## Built via Ant <target> commands

```
MINGW32/c/Users/Manolis\upm-swing
```

```
checkversion:
```

```
clean:
```

```
[delete] Deleting directory c:\Users\Manolis\upm-swing\build
```

```
[delete] Deleting directory c:\Users\Manolis\upm-swing\testbuild
```

```
[delete] Deleting directory c:\Users\Manolis\upm-swing\dist
```

```
compile:
```

```
[mkdir] Created dir: c:\Users\Manolis\upm-swing\build
```

```
[javac] c:\Users\Manolis\upm-swing\build.xml:69: warning: 'includeantruntime' was not set, defaulting to build.sysclasspath=last; set to false for repeatable builds
```

```
[javac] Compiling 41 source files to c:\Users\Manolis\upm-swing\build
```

```
[javac] warning: [options] bootstrap class path not set in conjunction with -source 1.4
```

```
[javac] Note: Some input files use or override a deprecated API.
```

```
[javac] Note: Recompile with -Xlint:deprecation for details.
```

```
[javac] 1 warning
```

```
[mkdir] Created dir: c:\Users\Manolis\upm-swing\testbuild
```

```
[javac] c:\Users\Manolis\upm-swing\build.xml:74: warning: 'includeantruntime' was not set, defaulting to build.sysclasspath=last; set to false for repeatable builds
```

```
[javac] Compiling 11 source files to c:\Users\Manolis\upm-swing\testbuild
```

```
[javac] Note: c:\Users\Manolis\upm-swing\test\com\170d\upm\database\AccountSCSVMarshallerTest.java uses unchecked or unsafe operations.
```

```
[javac] Note: Recompile with -Xlint:unchecked for details.
```

```
[copy] Copying 31 files to c:\Users\Manolis\upm-swing\build
```

```
package-jar:
```

```
[mkdir] Created dir: c:\Users\Manolis\upm-swing\dist\build
```

```
[jar] Building jar: c:\Users\Manolis\upm-swing\dist\build\upm.jar
```

```
package-tgz:
```

```
[copy] Copying 1 file to c:\Users\Manolis\upm-swing\dist\build\server\http
```

```
[copy] Copying 1 file to c:\Users\Manolis\upm-swing\dist\build\server\http
```

```
[copy] Copying 1 file to c:\Users\Manolis\upm-swing\dist\build
```

```
[copy] Copying 1 file to c:\Users\Manolis\upm-swing\dist\build
```

```
[copy] Copying 1 file to c:\Users\Manolis\upm-swing\dist\build
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```

```
[copy] Copying 1 file to c:\Users\Manolis\upm-swing\dist\build
```

```
[copy] Copying 1 file to c:\Users\Manolis\upm-swing\dist\build
```

```
[tar] Building tar: c:\Users\Manolis\upm-swing\dist\upm-1.13.tar
```

```
[gzip] Building: c:\Users\Manolis\upm-swing\dist\upm-1.13.tar.gz
```

```
[delete] Deleting: c:\Users\Manolis\upm-swing\dist\upm-1.13.tar
```

```
BUILD SUCCESSFUL
```

```
Total time: 4 seconds
```

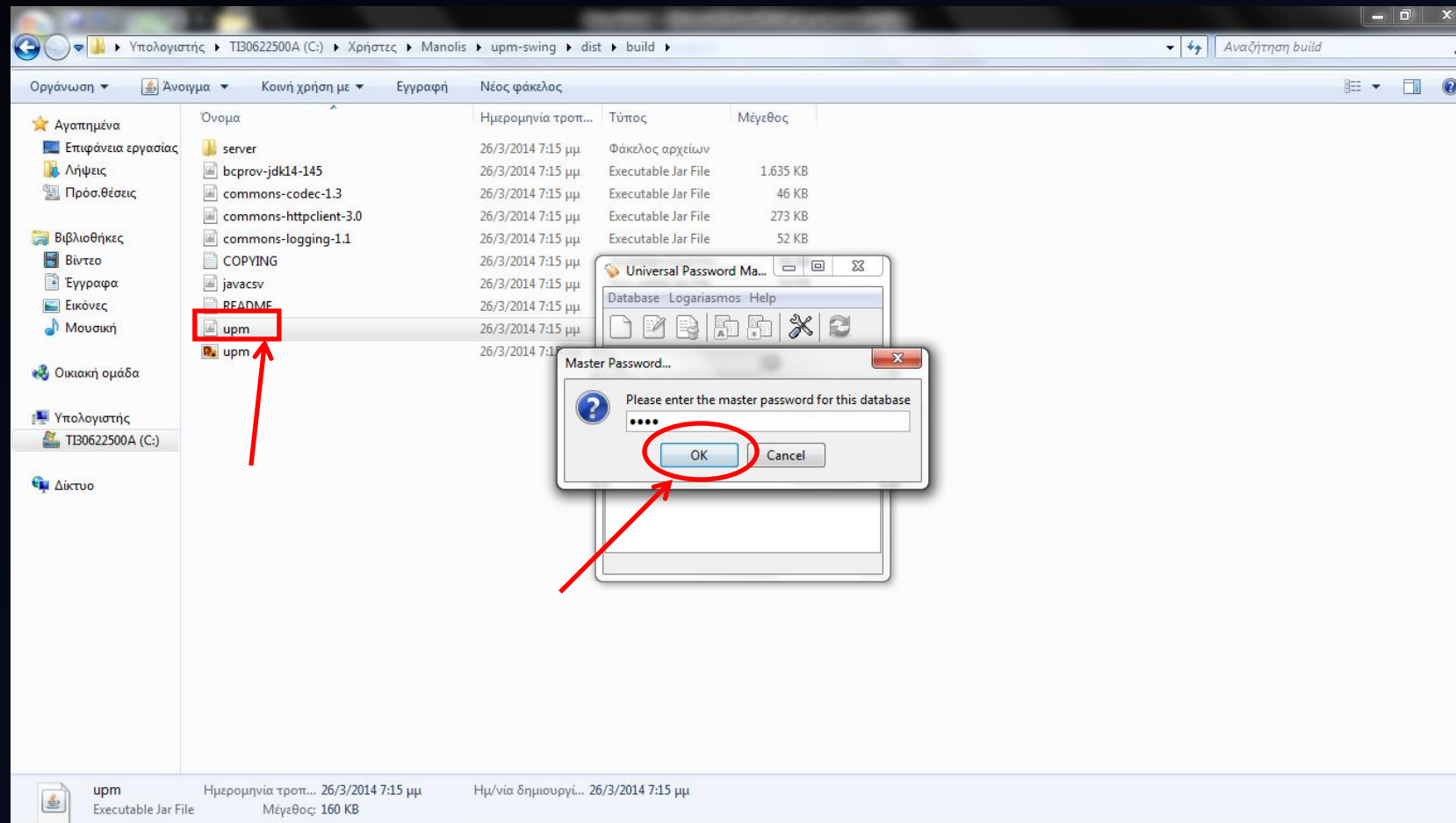
```
Manolis@MANOLIS-IOSH ~/upm-swing (master)
```

```
$
```

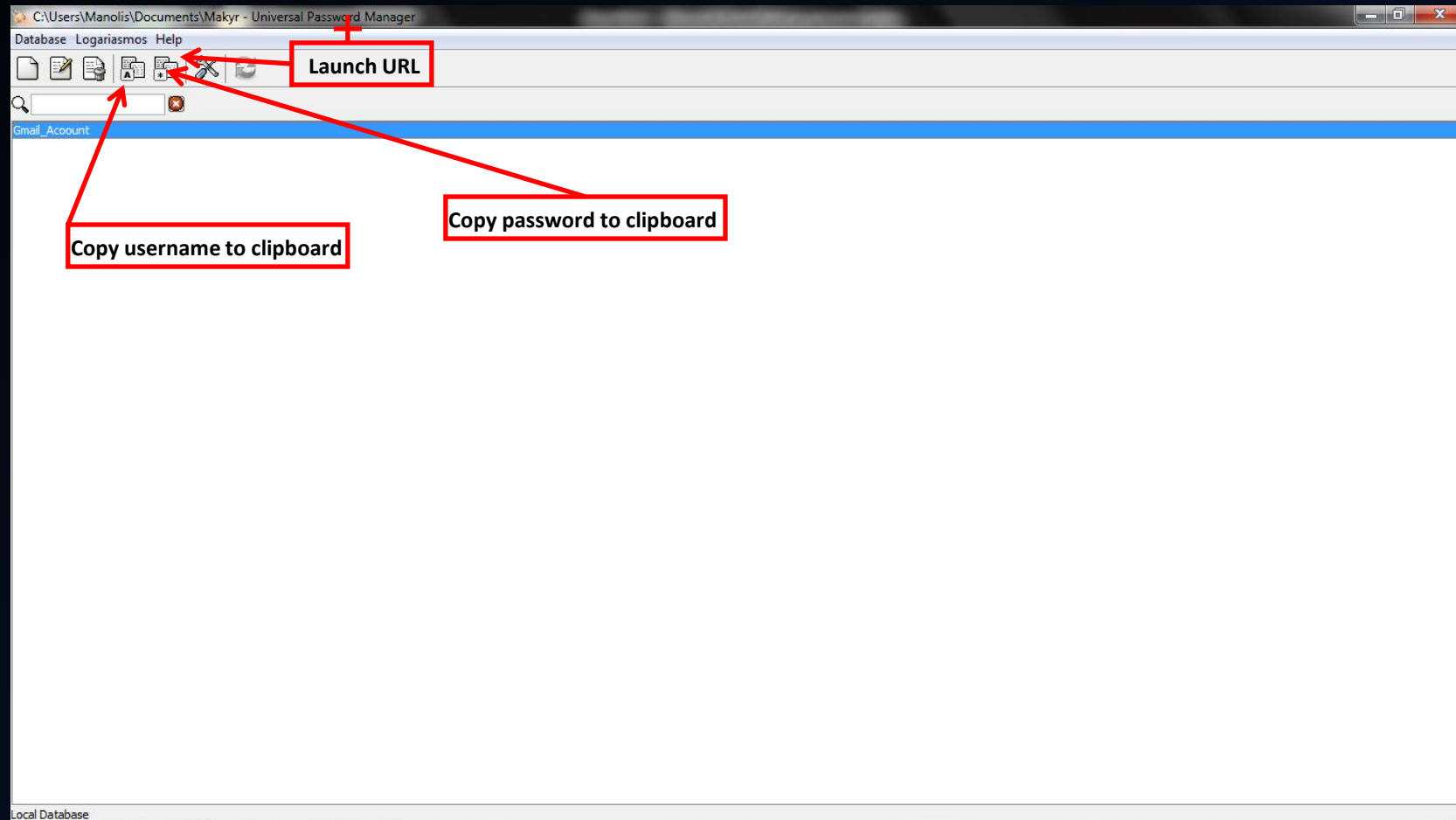




# Run the Generated JAR File

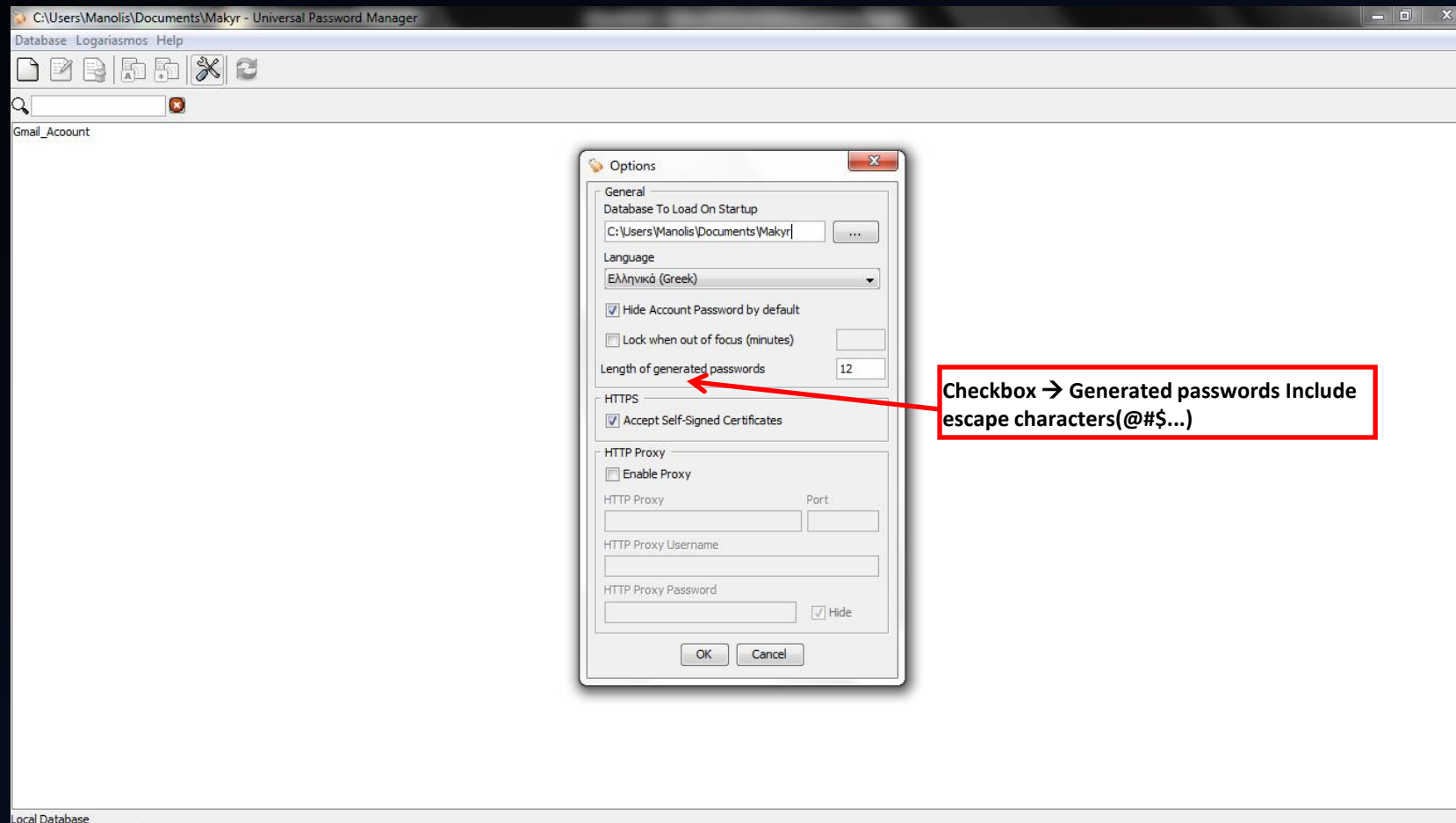


# Add Launch URL Button

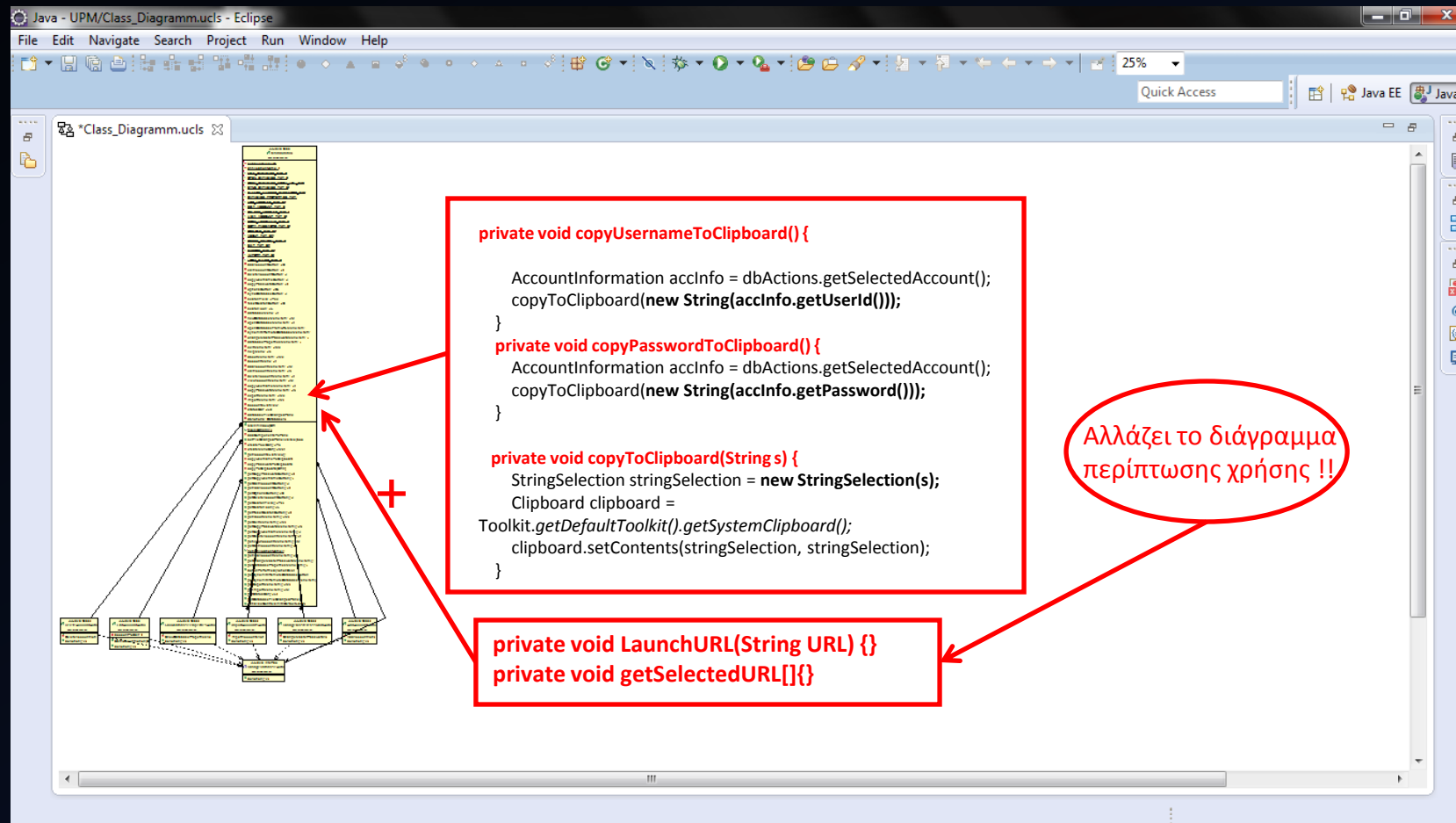




# Modify Password Generation Function



# Class Diagram Main Window



# Any Questions?

