



Building Applications with the Nesstar API

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Tutorial Format

1. Connecting to a server
2. Search for objects
3. Lookup objects directly
4. DDI traversal and lookup
5. Analysis (tabulation, regression, correlation)
6. Cubes
7. Publishing

Connecting to WiFi

Connect via guest-id shared with you
or

Eduroam configuration on UiB-campus is
described here:

<https://it.uib.no/en/Eduroam>

Getting started

Windows:

- Download Getting started kit from <http://bit.ly/U67M4B>
- Run the bat file

Linux:

> apt-get install git maven2 on Debian based distros
or
> yum install git maven2 on RedHat based distros

Mac:

- Install Git from <http://git-scm.com/download/mac>

All platforms, once Maven and Git is installed :

> git clone git://nesstar-dev.nsd.uib.no/api-tutorial.git

Let maven configure your IDE

Eclipse

```
> mvn -DdownloadJavadocs=true eclipse:eclipse
```

IntelliJ

```
> mvn -DdownloadJavadocs=true idea:idea
```

Run tests and make them pass

Either use your IDE to run the tests, or use maven:

```
> mvn test
```

to run them all or

```
> mvn test -Dtest=Level01
```

to run only Level01



Nesstar Public API Javadoc

<http://nesstar-dev.nsd.uib.no/javadoc/com.nesstar/nesstar-api/latest>

<http://bit.ly/UB8Zp8>

Nesstar Objects used in Levels 1 - 3

1. Connecting

- NesstarDB
- NesstarDBfactory
- Server

2. Search

- SearchQuery
 - Builder
 - methods for narrowing down search
- SearchResult

3. Lookup

- Bank objects
- Lookup by ID
- Get all objects of a type

```
Bank<Study> bank = server.getBank(Study.class);
```

Nesstar Objects used in Levels 4 - 5

4. DDI traversal and lookup

- Study
- XPath expressions/syntax
- Returns node or list of nodes

5. Analysis

- Builders as input
 - TabulationBuilder, RegressionBuilder, CorrelationBuilder
- Add variables, categories, case subsets etc
- Run operation on study

Nesstar Objects used in Levels 6 - 7

6. Cubes

- Use SliceBuilder to slice cube
- Look up cells in Slice with SliceCoordinates
 - Dimensions and Members

7. Publishing

- Accepts DDI XML and CSV data
- PublishingBuilder as input

Solutions - all platforms

git checkout solution

or download it from

<http://goo.gl/1f4d7>

Nesstar Public API

You will find more about our public API - http://nesstar.com/software/public_api.html

Untill we have released version 0.6, you can find Updated Javadocs at

<http://nesstar-dev.nsd.uib.no/nesstar-api-doc/apidocs/>

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