Automic
Let's Automate Business.

Automic JAVA API

A Simple Getting Started

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Our Goal with this getting started

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- Showing what resources are needed to use the API
- Writing a short Java program in order to:
  - Connect to an Automic (AE) instance
  - List all existing Folders and existing Objects for your Client

Why are we doing it?

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Because anything can be automated with the Java API in Automic

- It is **fully** supported
- It is **fully** documented

What do we need?

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- Access to an Automic Environment
- Access to the Automic rich GUI binaries
- Java JRE or JDK 1.7+ installed. Find it here
- Any JAVA IDE (Integrated Development Environment)
  - This getting started uses Eclipse. Find it here

Our Process through this getting started

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Step 1
Retrieve the Sample Code

Step 2
Import the Code

Step 3
Run the Code

Step 1
Retrieve the Sample Code

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Go to public repository: https://github.com/brendanSapience/UC4-Automic-Java-API-Getting-Started

Alternatively: You can clone the git repository locally by using the “clone” command in Git.

Step 1
Retrieve the Sample Code

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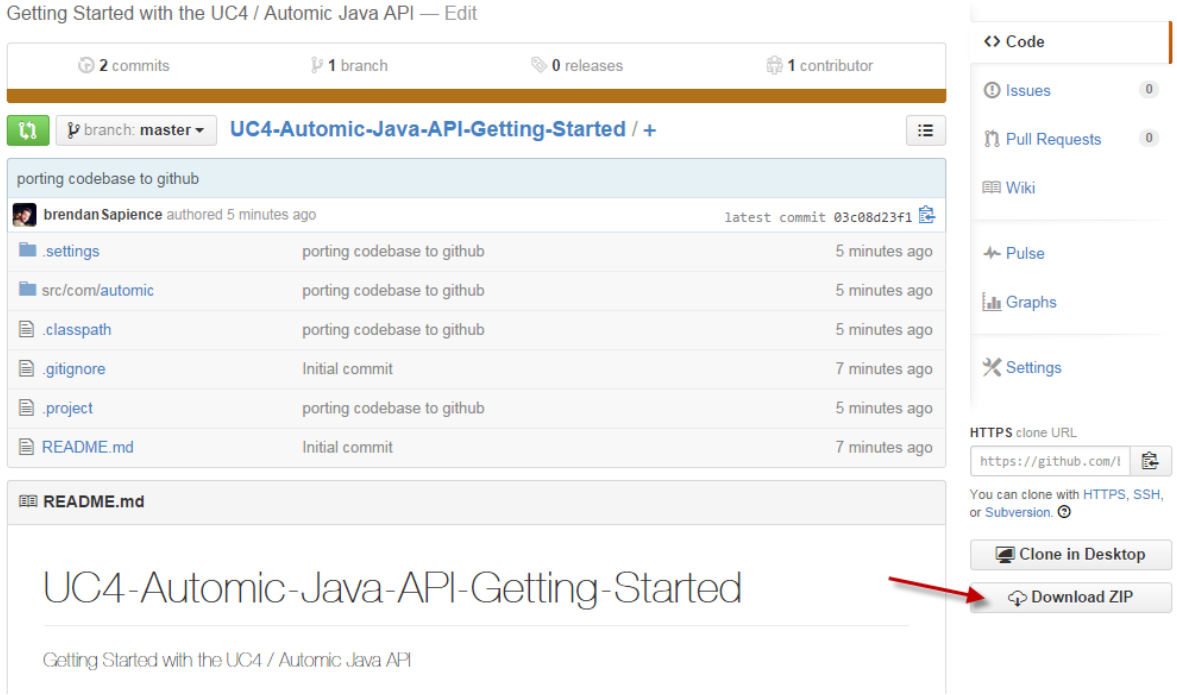
Click on the Download section:



Step 2
Import the Code

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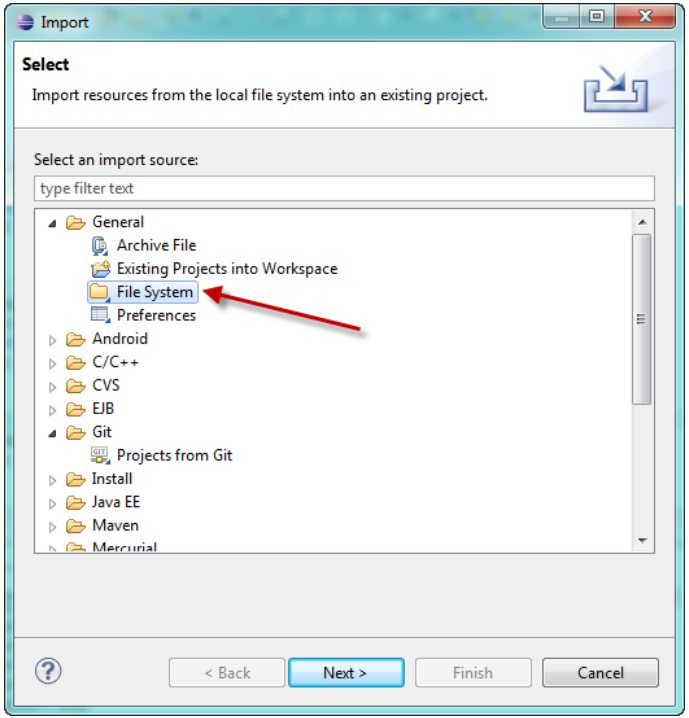
In Eclipse: File -> Import.

Under General, pick “File System”



Step 2
Import the Code

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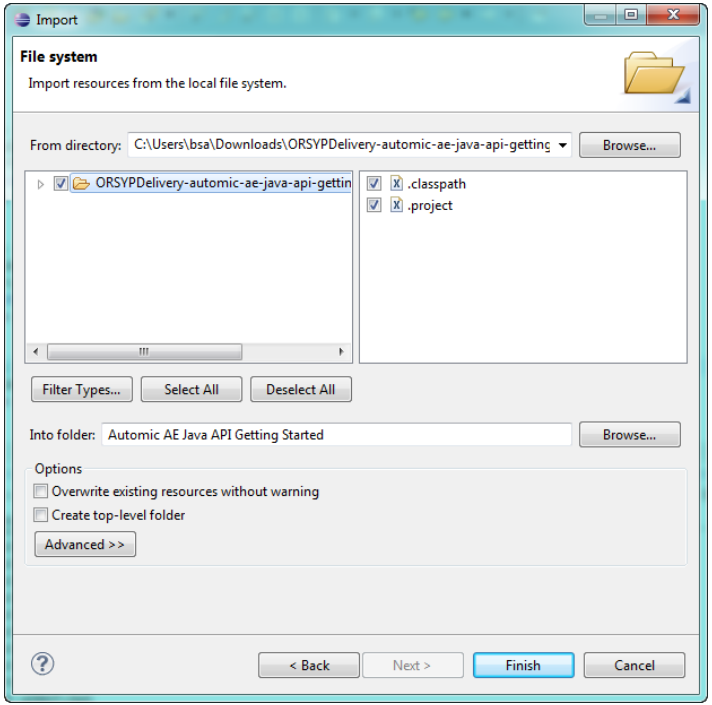
Import the folder downloaded in Step 1



Step 2
Import the Code

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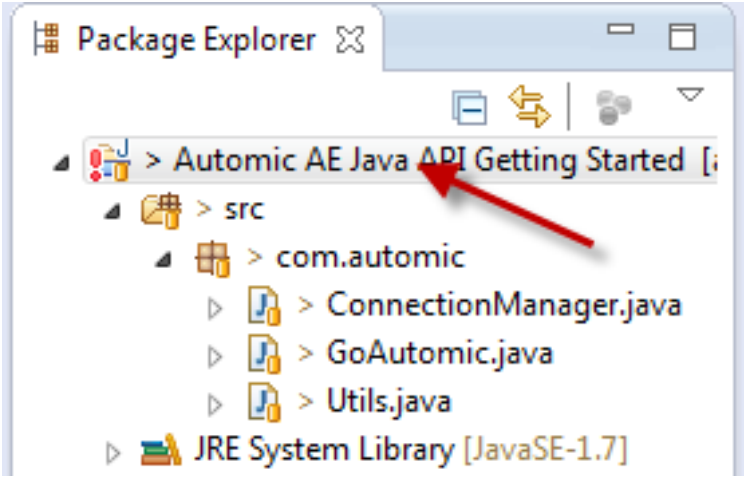
Right click on the project name,

Then click “Properties”



Step 2
Import the Code

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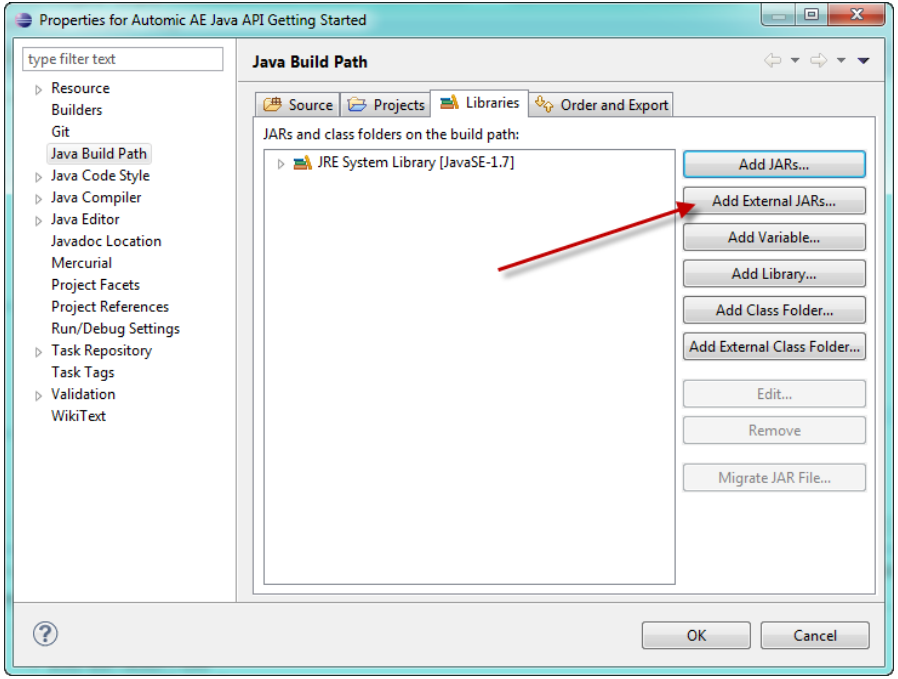
Under Java Build Path -> Libraries,

Click “Add External JARs”



Step 2
Import the Code

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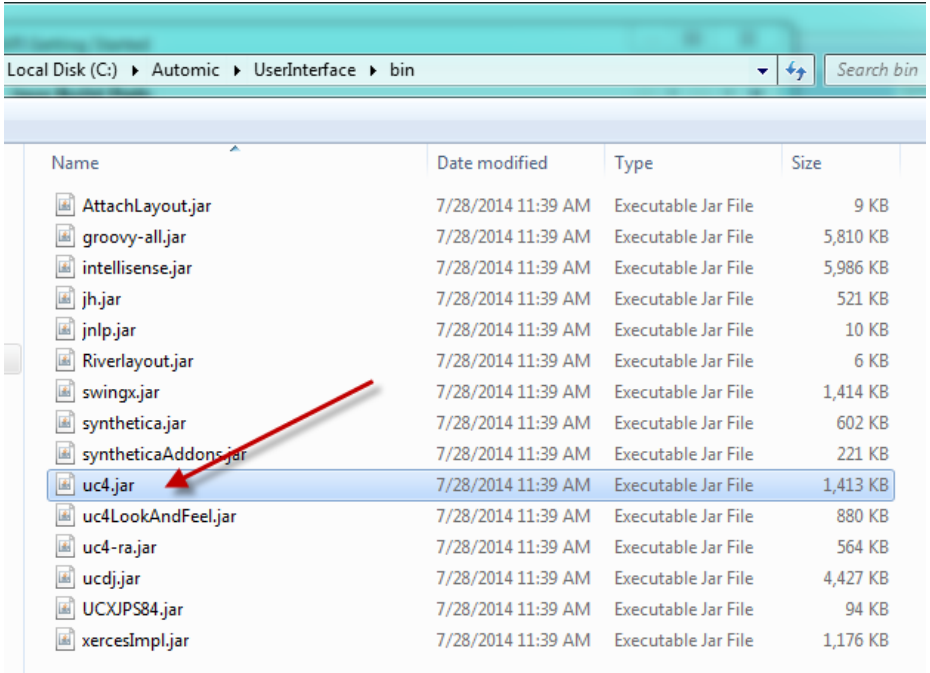
Go to the User Interface “bin” folder,

Select “uc4.jar”



Step 2
Import the Code

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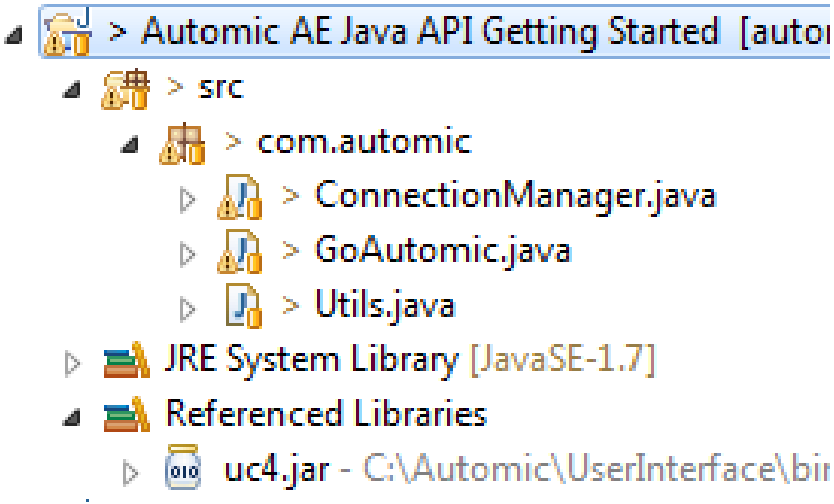
You should now see your project with a reference to uc4.jar



Step 3
Run the Code

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In your GoAutomic.java class, modify the connection parameters to your own:

GoAutomic.java | ConnectionManager.java | Utils.java

```
package com.automic;
import java.io.IOException;


public class GoAutomic {

    /**
     * this class illustrates a simple usage of the Automic Java API
     */

    // 0 - Change the values below to connect to a specific AE Environment

    public static String AEHostnameOrIp = "192.168.11.134"; // Automation Engine IP Adr
    public static int AECPPort = 2217;                      // "Primary" Communication Process port
    public static int AEClientToConnect = 1000;             // AE Client Number (0 - 9999)
    public static String AEDepartment = "UC4";              // User Department
    public static String AEUserLogin = "UC4";               // AE User Login
    public static String AEUserPassword = "uc4";            // AE User Password
    public static char AEMessageLanguage = 'E';             // Language: 'E' or 'D', or 'F'


        public static void main(String argv[]) throws IOException {

            // 1- First, use the static connection object to initiate the connection (see ConnectionManager class for details)

            Connection conn = new ConnectionManager().authenticate(
                    AEHostnameOrIp, AECPPort, AEClientToConnect, AEUserLogin, AEDepartment, AEUserPassword, AEMessageLanguage);

            // 2- Use the connection object created above to query AE
            // -> the Utils class aims at bringing additional functionalities to the AE API, take a look!

            Utils utils = new Utils(conn);
```

Step 3
Run the Code

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Run the code and see the result (a list of all Folders and Objects within them):

```
<terminated> GoAutomic (1) [Java Application] C:\Program Files\Java\jdk1.7.0_10\bin\javaw.exe (Sep 5, 2014 11:39:21 AM)
Authentication...
+++ Content of: BSP.OBJECTS
    --> BSP.CALENDARS
    --> BSP.FILTERS
    --> BSP.FTP
    --> BSP.HOSTGROUP
    --> BSP.JOBS
    --> BSP.JOBS.MEANINGFULNAMES
    --> BSP.LOGINS
    --> BSP.NOTIFICATIONS
    --> BSP.QUEUES
    --> BSP.SCHEDULES
    --> BSP.SCRIPTS
    --> BSP.WORKFLOWS
    --> FOLD.NEW.1
+++ Content of: BSP.CALENDARS
    --> CALE.BSP.DAY3.1
    --> CALE.BSP.DAY3.2
    --> CALE.BSP.DAY3.EX1.1
+++ Content of: BSP.FILTERS
    --> FILTER.OUTPUT.EX2.BSP.1
    --> FILTER.OUTPUT.EX2.BSP.2
    --> FILTER.OUTPUT.EX2.BSP.3
    --> FILTER.OUTPUT.EX3.BSP.1
+++ Content of: BSP.FTP
    --> CONN.FTPAGENT.FTPCONNECTION.BSP.1
    --> JOBS.FTPAGENT.FTPJOB.BSP.1
+++ Content of: BSP.HOSTGROUP
    --> HOSTG.BSP.DAY2.1
+++ Content of: BSP.JOBS
    --> BSP.JOBS.TEST1
    --> CONN.WEBSERVICE.RESTCONNECTION.BSP.1
    --> JOBF.WIN.BSP.DAY2.EX3.1
    --> JOBF.WIN.BSP.DAY2.EX3.2
```

You are done! But what is next?

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Modify the Code, Explore and Experiment using the following resources:

API Documentation:
http://docs.automic.com/documentation/AE/10.0.2/english/AE_API/pages/index.html

Extended version of the code used here (more methods, more complex):
https://github.com/brendanSapience/UC4-Automic---Java-API-Framework-Simplified