



How to Generate Sequence Diagram from Java?

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1. Download [Sample.zip](#) for this tutorial and extract the zip file to any directory.
2. Study the source code. Read the *register* method in *RegisterController.java* to see how it works.

A screenshot of a Notepad window titled "RegisterController.java - Notepad". The window contains the following Java code:

```
import java.util.*;

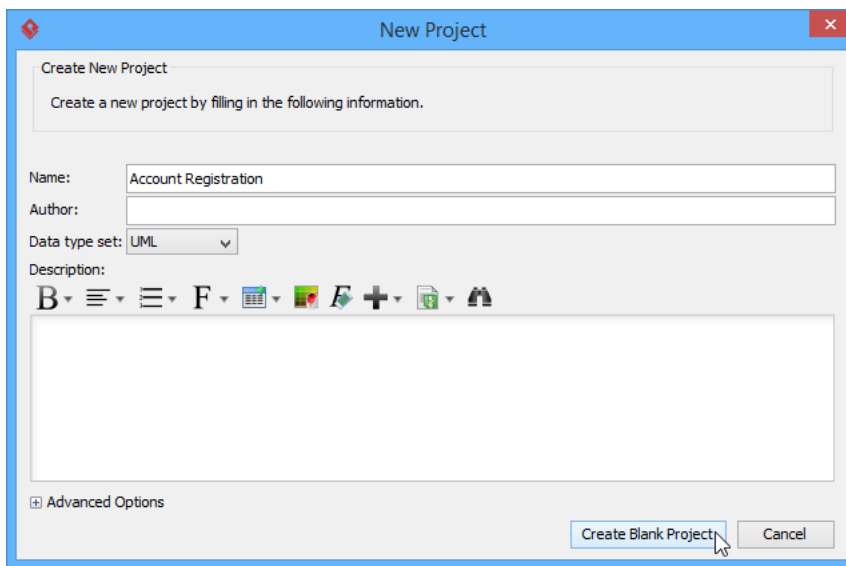
public class RegisterController {

    private List _accounts = new ArrayList();

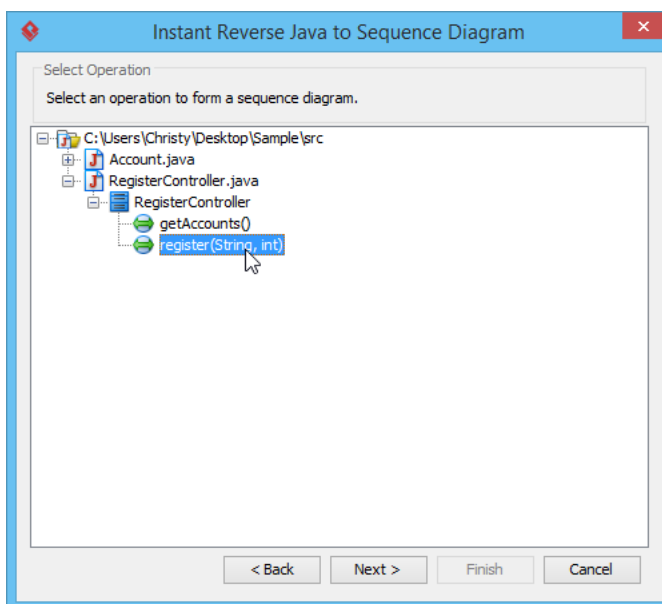
    public void register(String name, int age) {
        Account account = new Account();
        account.setId(1);
        account.setName(name);
        account.setAge(age);
        _accounts.add(account);
    }

    public List getAccounts(){
        return _accounts;
    }
}
```

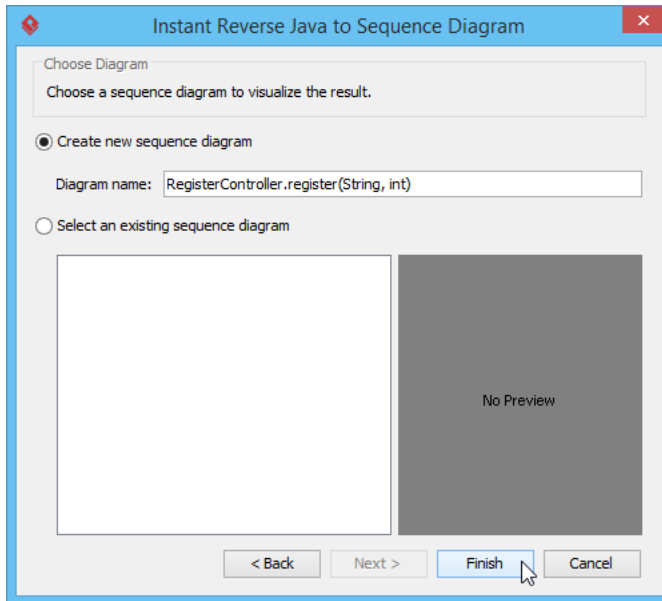
3. Create a new project by selecting **Project > New** from the application toolbar. In the **New Project** window, enter *Account Registration* as the project name and click **Create Blank Project**.



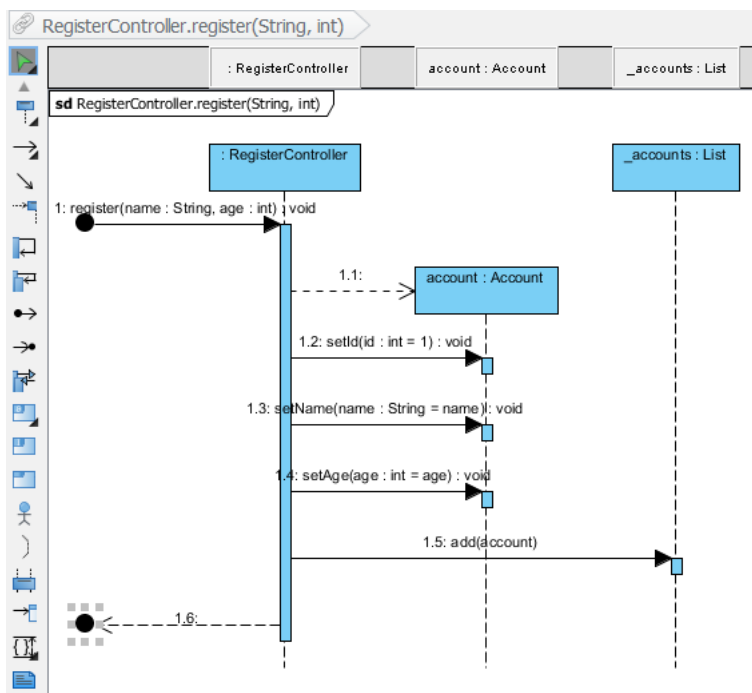
4. Select **Tools > Code > Instant Reverse Java to Sequence Diagram...** from the toolbar.
5. In the **Instant Reverse Java to Sequence Diagram** window, click the **Add Source Folder...** button.
6. Select the extracted source folder, `src`. Click the **Next** button.
7. Select the method to visualize: **src > RegisterController.java > register(String, int)**. Click the **Next** button.



- You need to select a diagram to visualize the interaction. The **Create new sequence diagram** option is selected, and a diagram name is entered by default. Click the **Finish** button.



- As a result, a UML sequence diagram is formed. Let's study the diagram.



When the `register` method of `RegisterController` is invoked (message 1), it creates an `Account` object (message 1.1). After that, the controller sets the ID, name, and age of the `Account` object (messages 1.2, 1.3, 1.4) and adds the object to an account list (message 1.5). The invocation ends with a return message (message 1.6).

Resources

1. [Sample.zip](#)

Related Links

- [Instant reverse Java sources to sequence diagram](#)
- [Why Aren't There Any Operations to Choose from in Reverse Engineering of Sequence Diagram?](#)



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