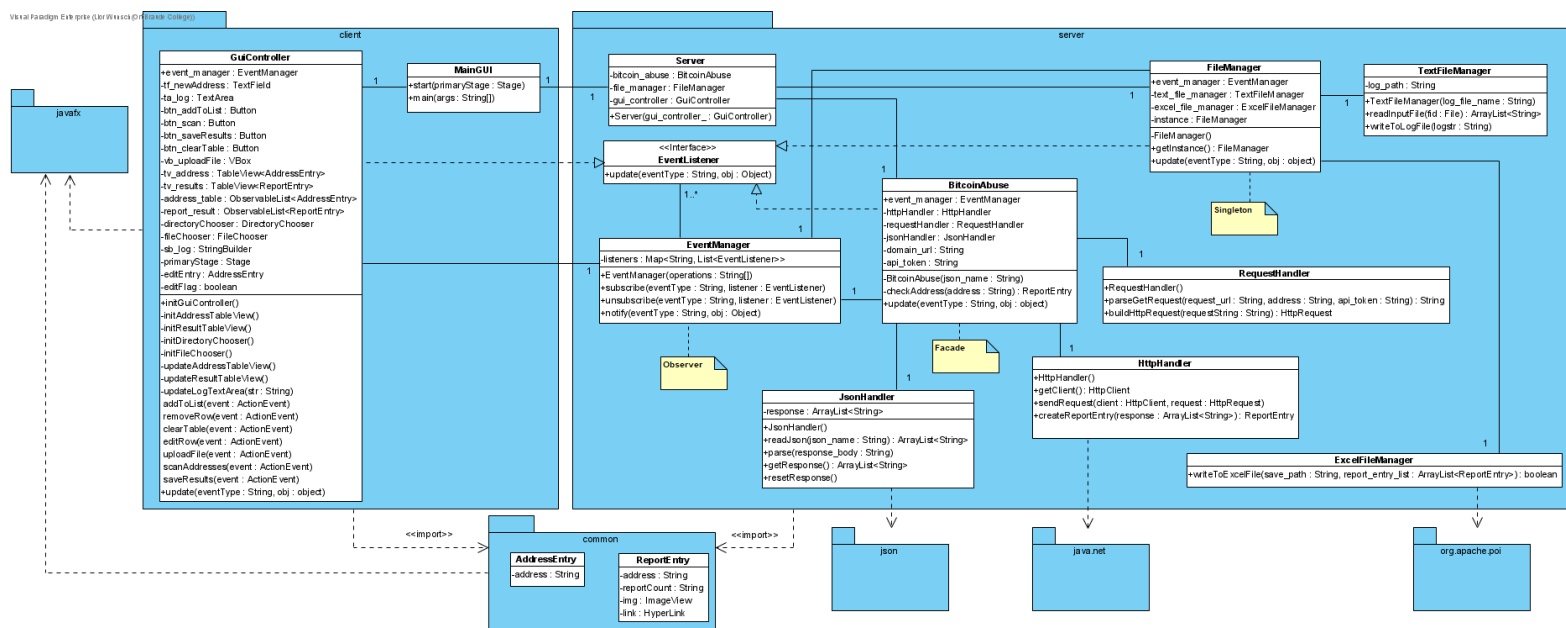


Design Patterns - BitcoinAbuse

Lior Wunsch
Liad Vaksman

Class Diagram & Design Patterns

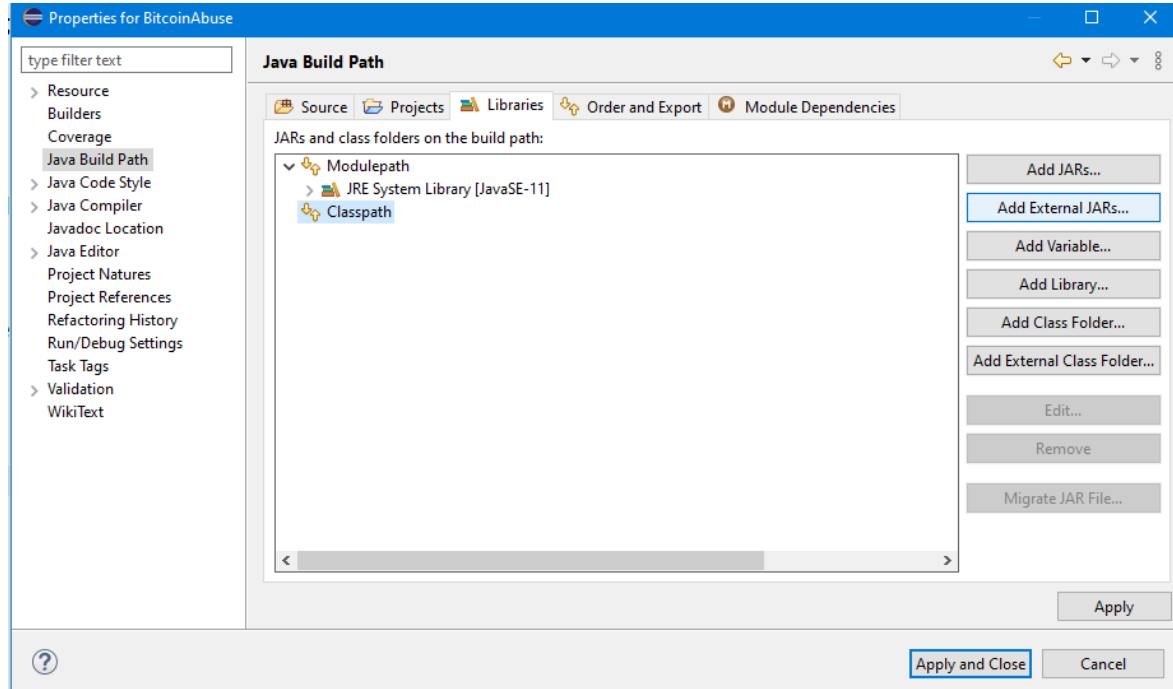
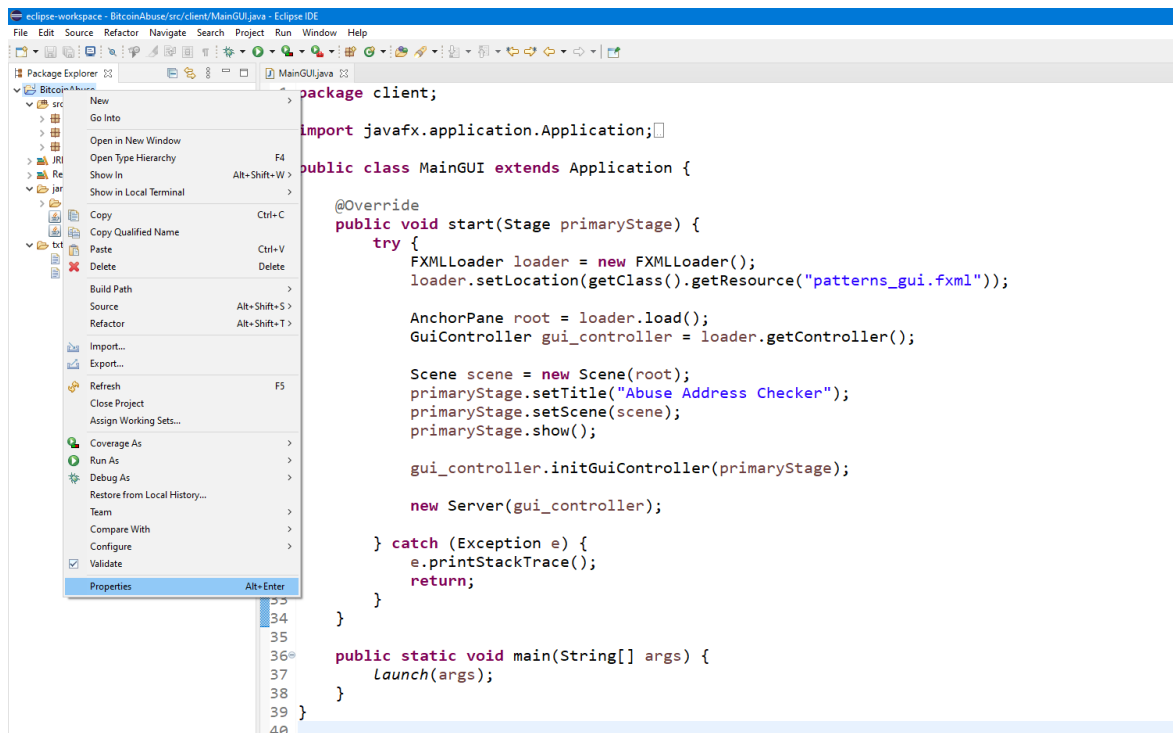
As seen in yellow, we used the design patterns: Singleton, Facade, Observer.

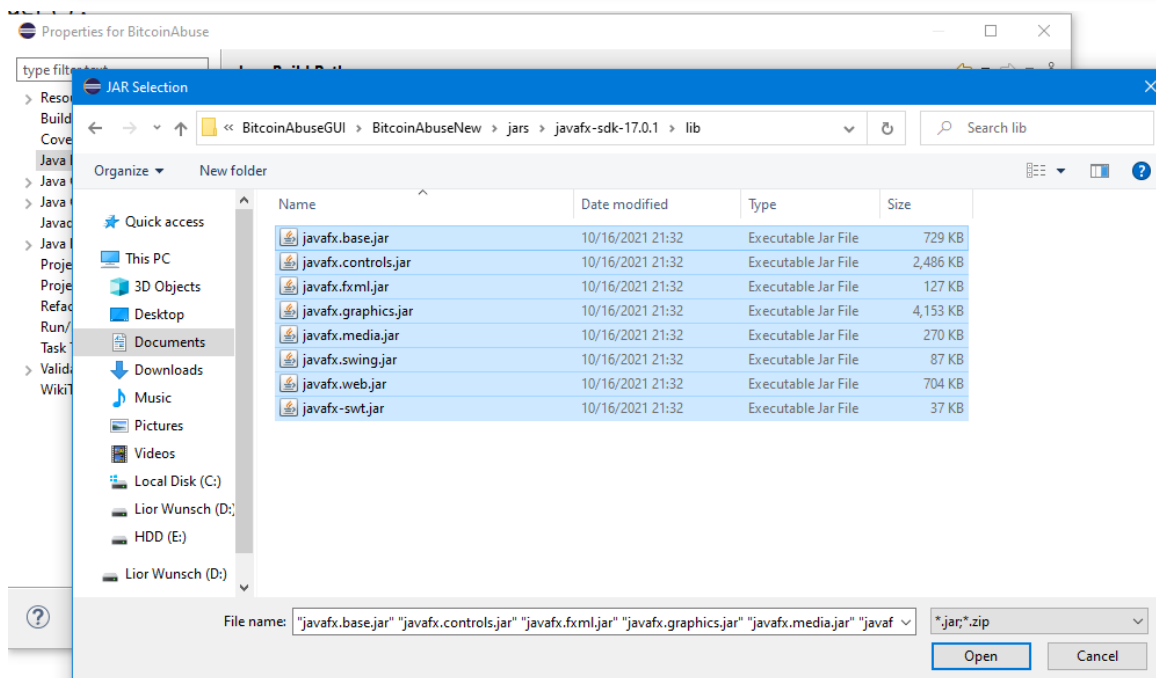
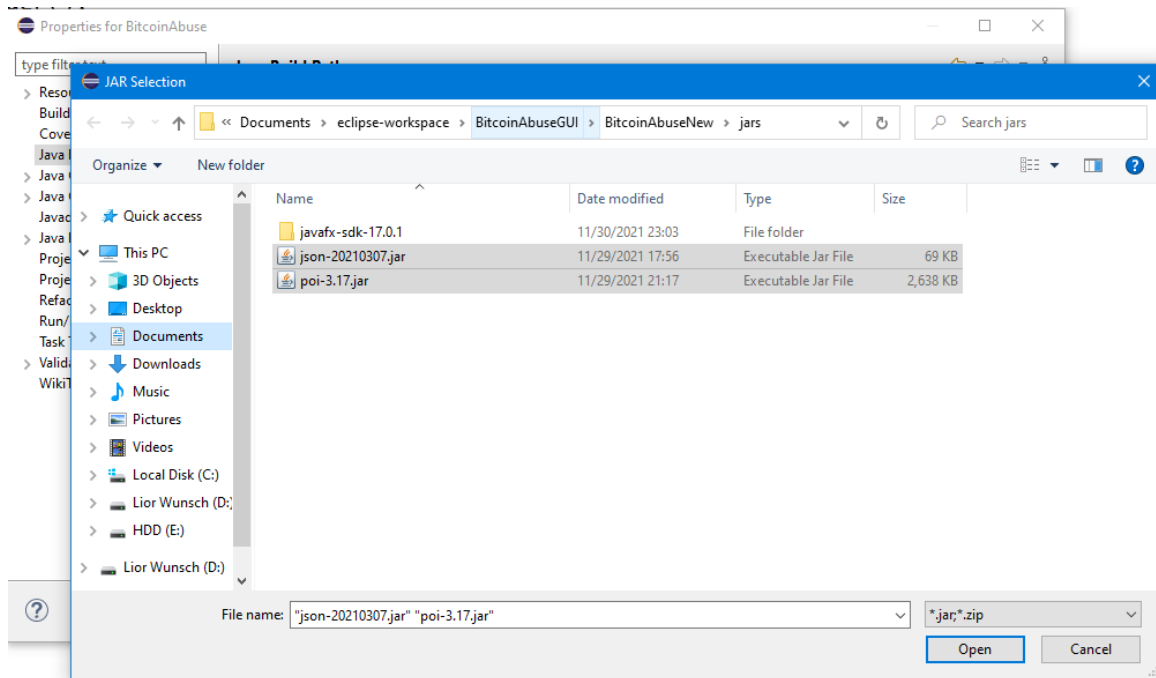


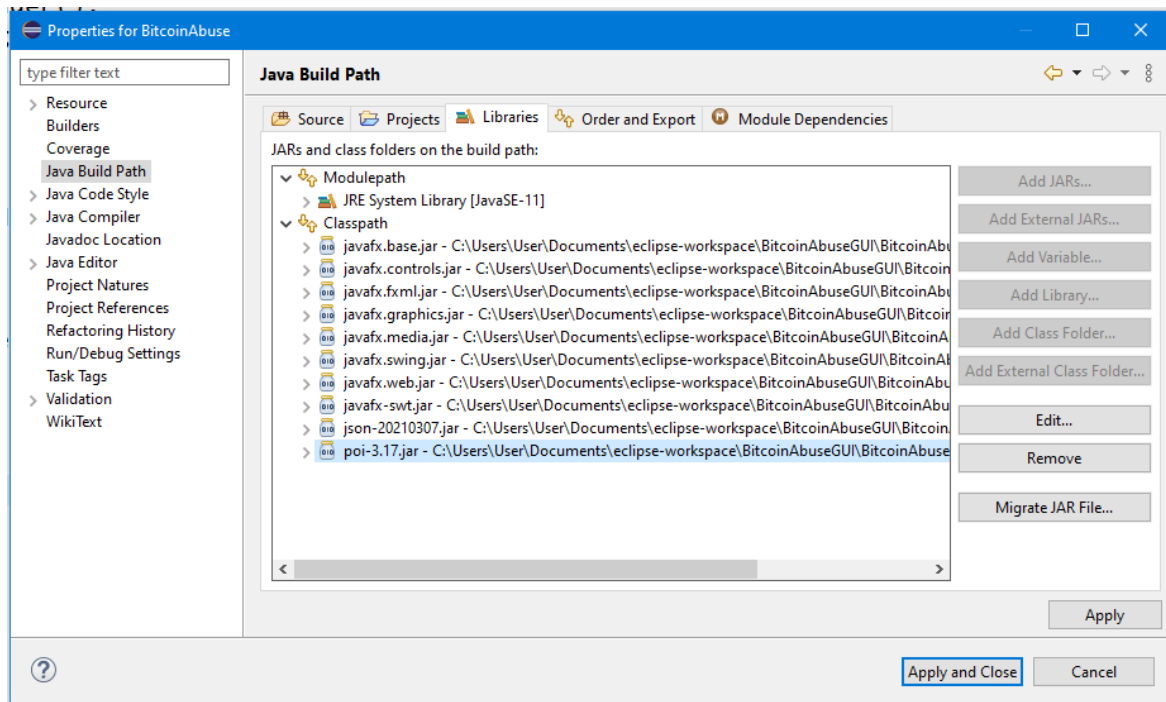
1. Singleton: used on the “FileManager” class which restricts the creation of the class to only one object at runtime, so that reading, and writing will be done through one source.
2. Facade: used on the “BitcoinAbuse” class for hiding the complexity of the “checkAddress” task, which gets an address and receives a report via the BitcoinAbuse API. The method contains lot of moving parts, by using Facade pattern we provide a one simple interface instead.
3. Observer: used on the “EventManager” class who notifies his listeners (other classes), on different events like scan, read or write, by that the listeners get an update on the event and act accordingly. For being a listener, the class have to implement the interface “EventListener”.

Configuration Manual

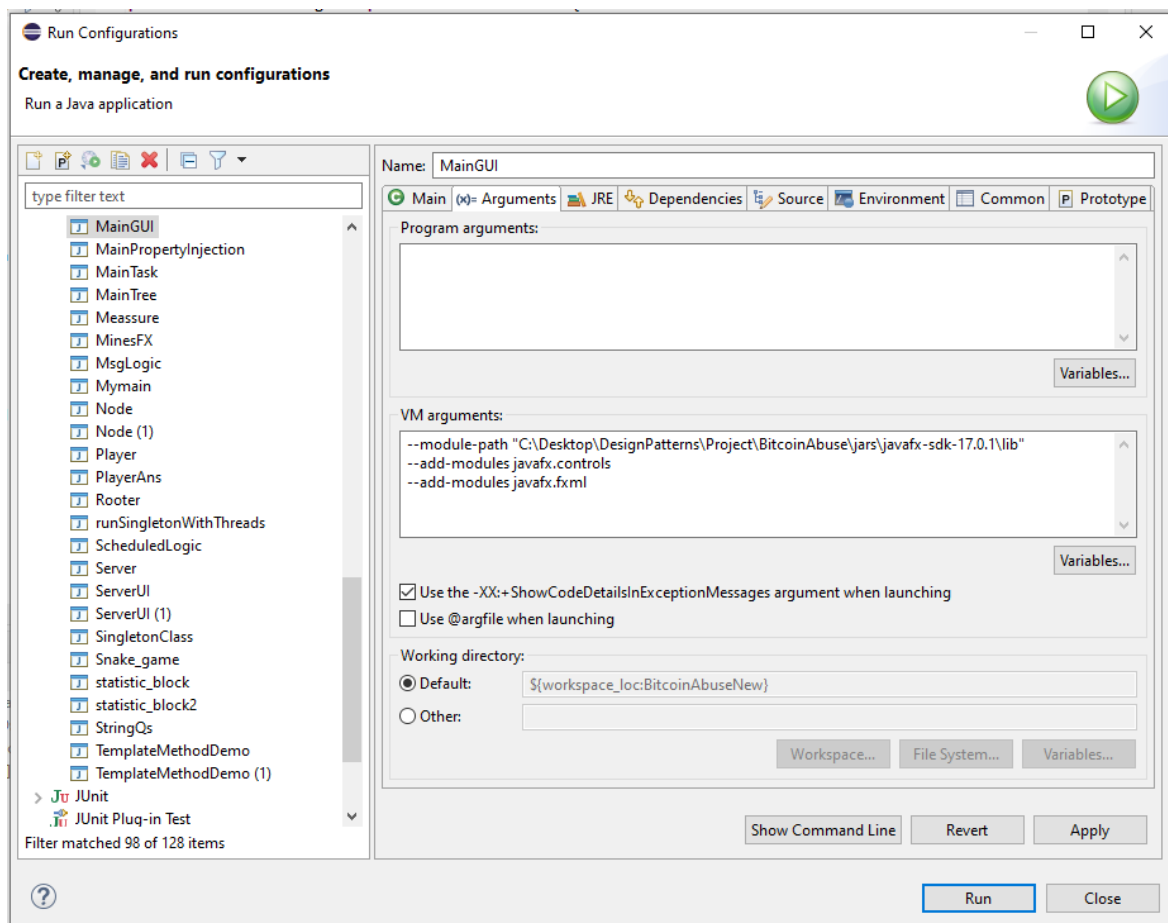
1. Add JAR files to build path:





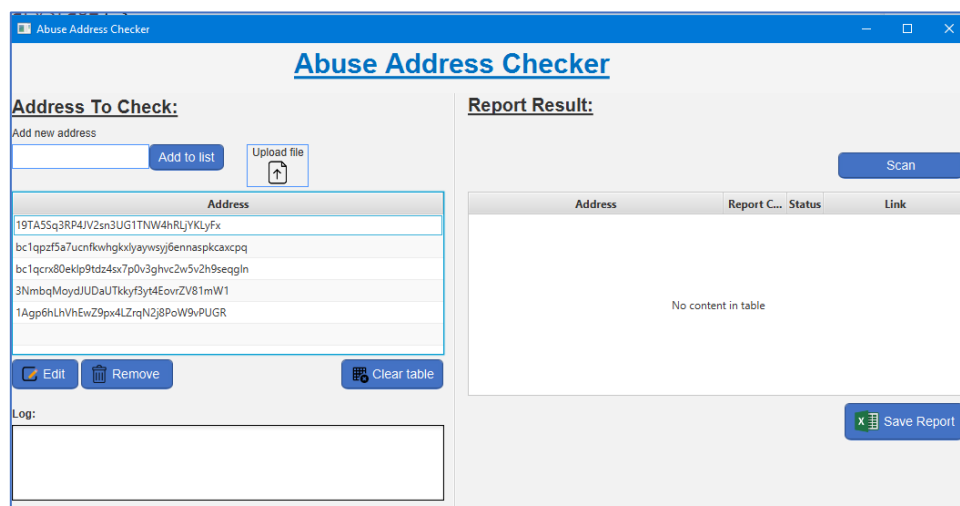
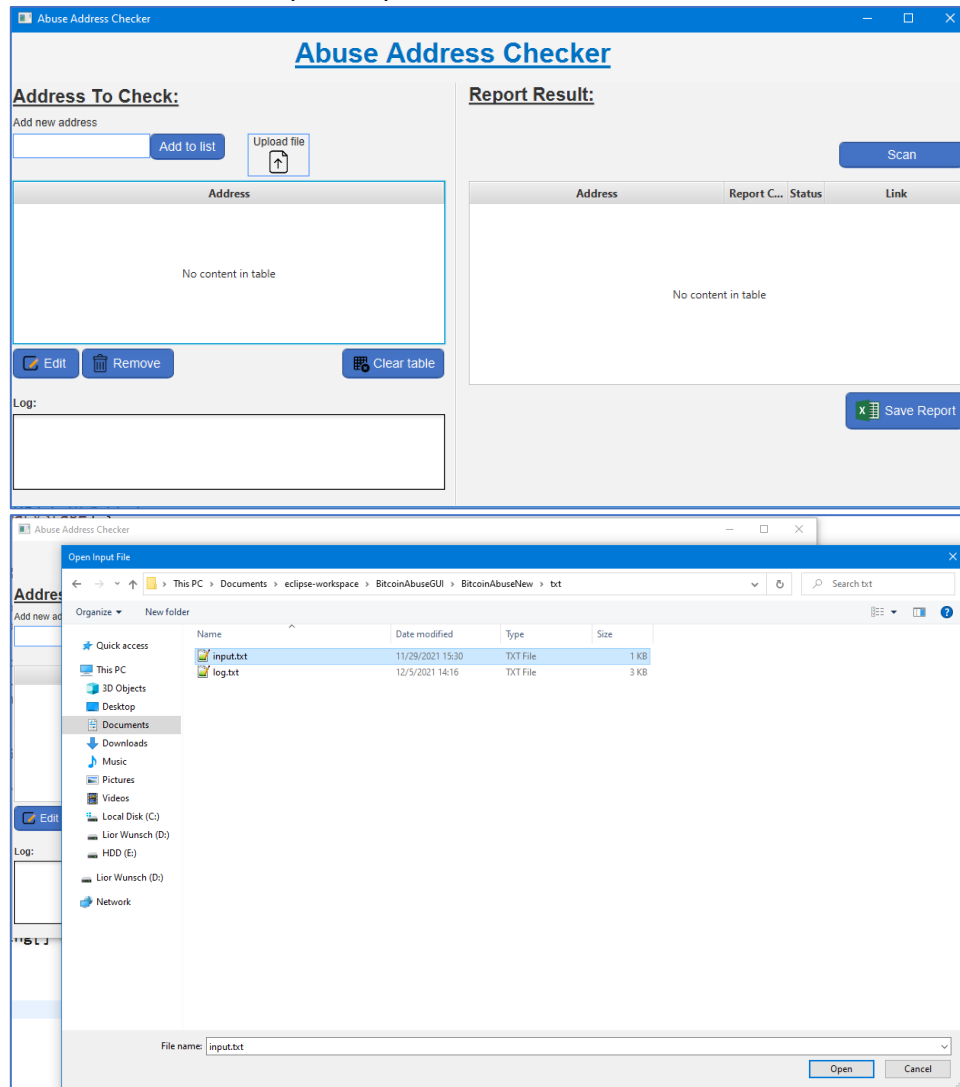


2. Edit run configuration:
add the VM arguments with the right paths



User Manual

1. Upload file:
 - a. press on "Upload file" button
 - b. Choose file and press open



2. **Add new address:**
 - a. Fill the text filled with wanted address
 - b. Press on “Add to list” button

Abuse Address Checker

Abuse Address Checker

Address To Check:

Add new address

Address
19TA5Sq3RP4JV2sn3UG1TNW4hRLjYKLyFx
bc1qpzf5a7ucnfkwhgkxlyaywsyj6ennaspkcaxcpq
bc1qcrx80eklp9tdz4sx7p0v3ghvc2w5v2h9seqgln
3NmbqMoydJUDaUTtkyf3yt4EovrZV81mW1
1Agp6hLhVhEwZ9px4LZrqN2j8PoW9vPUGR

Log:

Report Result:

Address	Report C...	Status	Link
No content in table			

Abuse Address Checker

Abuse Address Checker

Address To Check:

Add new address

Address
19TA5Sq3RP4JV2sn3UG1TNW4hRLjYKLyFx
bc1qpzf5a7ucnfkwhgkxlyaywsyj6ennaspkcaxcpq
bc1qcrx80eklp9tdz4sx7p0v3ghvc2w5v2h9seqgln
3NmbqMoydJUDaUTtkyf3yt4EovrZV81mW1
1Agp6hLhVhEwZ9px4LZrqN2j8PoW9vPUGR
1QKZCTBVX49ANvHzwFWPvRhuJdhvqutoV3

Log:

Report Result:

Address	Report C...	Status	Link
No content in table			

6

3. Remove address:
 - a. Press on address entry from the table
 - b. Press on "Remove" button

Abuse Address Checker

Abuse Address Checker

Address To Check:

Add new address

Add to list

Upload file

Address
19TA5Sq3RP4JV2sn3UG1TNW4hRLjYKLyFx
bc1qpzf5a7ucnfkwhgkxlyaywsyj6ennaspkcaxcpq
bc1qcrx80eklp9tdz4sx7p0v3ghvc2w5v2h9seqgln
3NmbqMoydJUDaUTtkyf3yt4EovrZV81mW1
1Agp6hLhVhEwZ9px4LZrqN2j8PoW9vPUGR
1QKZCTBVX49ANvHzwFWPvRhudhvgutoV3

Edit

Remove

Clear table

Log:

Report Result:

Scan

Address	Report C...	Status	Link
No content in table			

Save Report

Abuse Address Checker

Abuse Address Checker

Address To Check:

Add new address

Add to list

Upload file

Address
19TA5Sq3RP4JV2sn3UG1TNW4hRLjYKLyFx
bc1qcrx80eklp9tdz4sx7p0v3ghvc2w5v2h9seqgln
3NmbqMoydJUDaUTtkyf3yt4EovrZV81mW1
1Agp6hLhVhEwZ9px4LZrqN2j8PoW9vPUGR
1QKZCTBVX49ANvHzwFWPvRhudhvgutoV3

Edit

Remove

Clear table

Log:

Report Result:

Scan

Address	Report C...	Status	Link
No content in table			

Save Report

4. **Scan:**
 - a. Press on “Scan” button

Abuse Address Checker

Address To Check:

Add new address

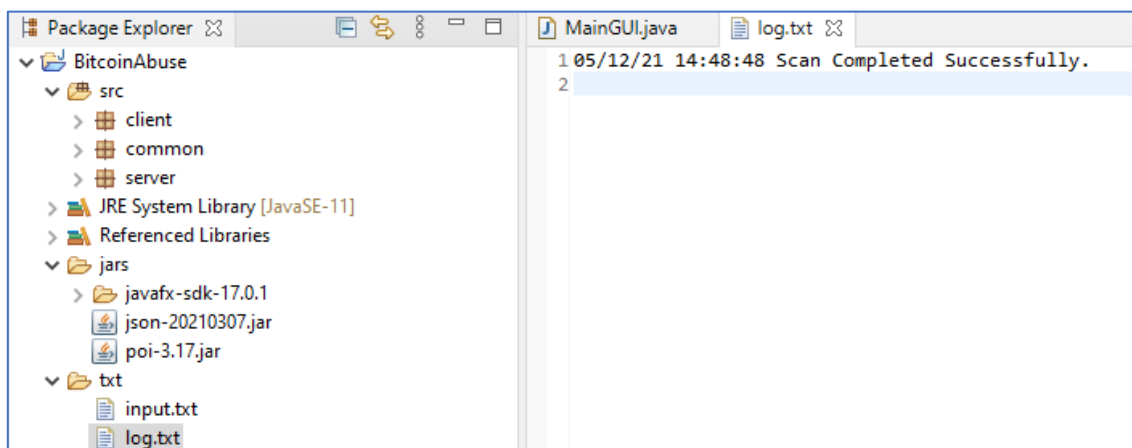
Address
19TA5Sq3RP4JV2sn3UG1TNW4hRLjYKLyFx
bc1qcrx80eklp9tdz4sx7p0v3ghvc2w5v2h9seqgln
3NmbqMoydJUDaUTkkyf3yt4EovrZV81mW1
1Agp6hLhVhEwZ9px4LZrqN2j8PoW9vPUGR
1QKZCTBVX49ANvHzwFWPvRhujdhvqutoV3

Log:

05/12/21 14:48:48 Scan Completed Successfully.

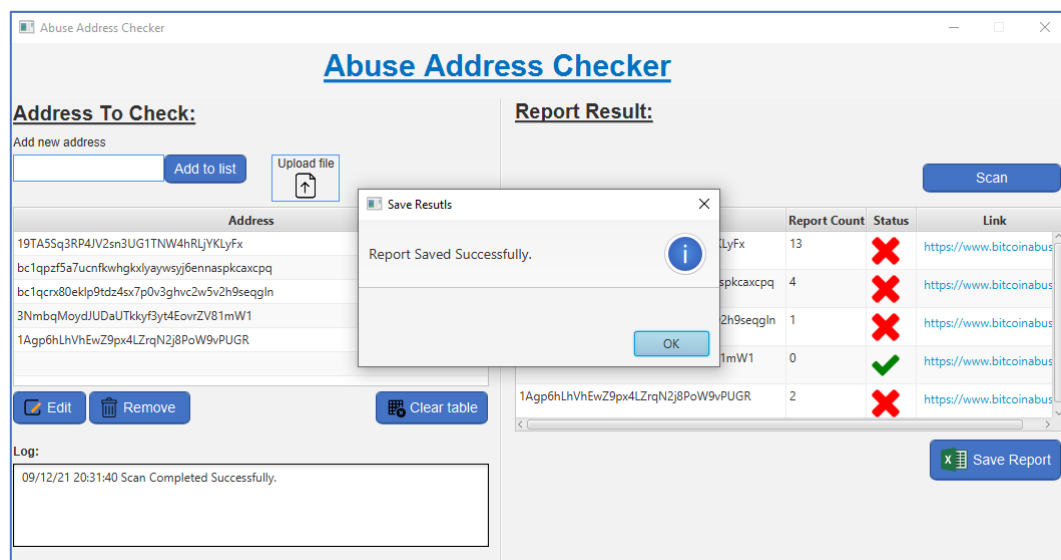
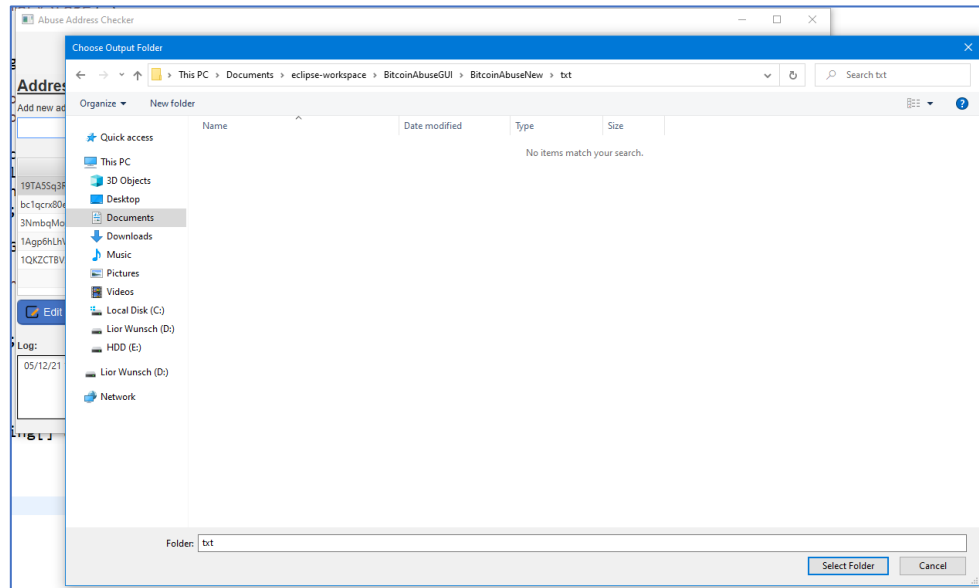
Report Result:

Address	Report C...	Status	Link
19TA5Sq3RP4JV2sn3UG1TNW4hRLjYKLyFx	10	✗	https://www.bitcoinabus...
bc1qcrx80eklp9tdz4sx7p0v3ghvc2w5v2h9seqgln	1	✗	https://www.bitcoinabus...
3NmbqMoydJUDaUTkkyf3yt4EovrZV81mW1	0	✓	https://www.bitcoinabus...
1Agp6hLhVhEwZ9px4LZrqN2j8PoW9vPUGR	2	✗	https://www.bitcoinabus...
1QKZCTBVX49ANvHzwFWPvRhujdhvqutoV3	67	✗	https://www.bitcoinabus...



5. Save Report:

- Press on "Save Report" button
- Select a folder to save the file
- Notification popup will show up



	A	B	C	D	E	F	G	H	I	J
1	Address	Report Count	Link							
2	19TA5Sq3RP4JV2sn3UG1TNW4hRLjYKLyFx	10	https://www.bitcoinabuse.com/api/reports/19TA5Sq3RP4JV2sn3UG1TNW4hRLjYKLyFx							
3	bc1qcn80eklp9tdz4sx7p0v3ghvc2w5v2h9seagln	1	https://www.bitcoinabuse.com/api/reports/bc1qcn80eklp9tdz4sx7p0v3ghvc2w5v2h9seagln							
4	3NmbqMoydJUDaUTkkyf3yt4EovrZV81mW1	0	https://www.bitcoinabuse.com/api/reports/3NmbqMoydJUDaUTkkyf3yt4EovrZV81mW1							
5	1Agp6hLhVhEwZ9px4LZrqN2j8PoW9vPUGR	2	https://www.bitcoinabuse.com/api/reports/1Agp6hLhVhEwZ9px4LZrqN2j8PoW9vPUGR							
6	1QKZCTBVX49ANhZwFWPvRhUjdhwqutoV3	67	https://www.bitcoinabuse.com/api/reports/1QKZCTBVX49ANhZwFWPvRhUjdhwqutoV3							
7										
8										
9										

6. Clear table:

- Press on "Clear table"

Abuse Address Checker

Address To Check:

Add new address

Add to list **Upload file**

Address
No content in table

Edit **Remove** **Clear table**

Log:

05/12/21 14:48:48 Scan Completed Successfully.

Report Result:

Scan

Address	Report C...	Status	Link
19TA5Sq3RP4JV2sn3UG1TNW4hRLjYKLyFx	10	✗	https://www.bitcoinabus...
bc1qcrx80eklp9tdz4sx7p0v3ghvc2w5v2h9seqgln	1	✗	https://www.bitcoinabus...
3NmbqMoydJUDaUTkkyf3yt4EovrZV81mW1	0	✓	https://www.bitcoinabus...
1Agp6hLhVhEwZ9px4LZrqN2j8PoW9vPUGR	2	✗	https://www.bitcoinabus...
1QKZCT8VX49ANvHzwFWPvRhujdhvqutoV3	67	✗	https://www.bitcoinabus...

Save Report

7. Edit address:

- Press on address entry from the table
- Press on "Edit" button the address will appear in text field
- Edit the address and press on "Update" button

Abuse Address Checker

Address To Check:

Add new address

Update **Upload file**

Address
19TA5Sq3RP4JV2sn3UG1TNW4hRLjYKLyFx
bc1qpfz5a7ucnfkwhgkxlyaywsyj6ennaspcaxcpq
bc1qcrx80eklp9tdz4sx7p0v3ghvc2w5v2h9seqgln
3NmbqMoydJUDaUTkkyf3yt4EovrZV81mW1
1Agp6hLhVhEwZ9px4LZrqN2j8PoW9vPUGR

Edit **Remove** **Clear table**

Log:

05/12/21 20:41:24 Scan Completed Successfully.

Report Result:

Scan

Address	Report Count	Status	Link
19TA5Sq3RP4JV2sn3UG1TNW4hRLjYKLyFx	10	✗	https://www.bitcoinabus...
bc1qpfz5a7ucnfkwhgkxlyaywsyj6ennaspcaxcpq	4	✗	https://www.bitcoinabus...
bc1qcrx80eklp9tdz4sx7p0v3ghvc2w5v2h9seqgln	1	✗	https://www.bitcoinabus...
3NmbqMoydJUDaUTkkyf3yt4EovrZV81mW1	0	✓	https://www.bitcoinabus...
1Agp6hLhVhEwZ9px4LZrqN2j8PoW9vPUGR	2	✗	https://www.bitcoinabus...

Save Report