Oktaeders 2nd market bot

Bondora's 2nd market has great opportunities. But find them is not so easy – there are about 200.000 parts to be sold.

Next problem is reaction time. So most of the good offers are only a few minutes on the market. 'Green' loans with a discount or no markup are caught by bots within seconds.

But don't worry. Even to pay 1-5% markup will bring you great profits if you choose the right loans. After 1-3 months interests will be more than your fee and you will earn up to 30% p.a. for the rest of the life of this loan.

So you can earn a lot of money by using my tool but there are some restrictions you have to notice:

1. There will be no free version. It was a very hard work to code this tool and you will earn money. So it is only buying loans for sponsors. The sample version will show you what you can do with this tool but not buy any loans.

2. You can only search loans with a markup of 1% or more. Yes there are 0% loans on the market. But it is very tricky to get them and I don't give this option away. So if you don't like buying loans with markups don't use this tool.

3. There is absolute no warranty that this tool does what you want and that it will do it in the future. Bondora is changing the rules frequently. It may be that I can't repair the tool if that happens.
You don't buy a software, you become a sponsor of Oktaeders blog and you'll get a gift. That's all.

4. I like suggestions. But i can promise nothing. And there is no support neither.

In my test one could build a portfolio of (IMHO) good loans of 1000€ easily in one month. The more bot users the harder will it be. But the market is very big.

What does the bot do?

It is searching for loans on the 2nd market. You can define the parameter of the search. Then it will show you the results or buy them itself.

The bot is a plugin for firefox. So it can only work whilst the tab is open and your computer is running. If you like, you can run it 24/7. But there are few new offers at midnight...

The bot will find all new offers or all loans with changed status i.e. having made a repayment in the last minutes.

I recommend only buy Estonian green loans automatically but you will be able to build the rules as you want.

There is no GUI to build the rules. You have to write them down in plain text and there is no sophisticated syntax check. But you won't change them so often.

Manual or automatic bids?

The bot will invest your money – so it is a very good idea to get the nose what it will do before you trust it. There are options to limit the money it can spend i.e. a day but in the first instance you should look what loans it finds and buy them yourself if you like them.

Later it will be a great advantage to let the bot act itself. So you will have a rather *passive* way to invest your money. And it will be way better than use bondora's portfolio manger.

There is a risk too: you cannot sell the loans the bot buys for you without a loss in every case. If you don't like any purchases of the PM you can sell them instantly if you claim no markup. You can do so too but you will loose the markup paid. Or you sell it with the same markup (or even higher) but not all loans will be sold. So you have to choose the rules very carefully.

Manual mode

First you have to look in the CONFIG-Menu and choose Edit Rules:

You can enter your rules below.

Please notice that there is no sophisticated syntax check!
Country & Rating are mandatory fields.
See manual to learn more

Import rules now

{"ID":"default","autoBuy":0,"delay":10000,"simultan":4,"sumPerDay":300,"minFreeCash":100,"userLimit":30}#

{"Name":"Perfect","Active":5,"SearchStr":"&HasNewSchedule=false&DesiredDiscountRateMax=2&PrincipalMax=
":[
{"Country":["EE"],"Rating":

The first line contains general options. If autoBuy is set to 0, you are in manual mode. If it is set to 1 (or missing) the bot will buy automatically.

Delay is the time in milliseconds between to searches. Don't choose it too short. The rest of the options is irrelevant for manual mode.

As soon as you click on "DO THE JOB" your bot is fishing for matching loans. The rules are the same for manual or automatic mode.

In the main part of the window a tabular will be build containing all matching loans. You can take a look into the details of each of these by clicking in a raw. If you like it you can buy.

All loans you have examined are gray. You can remove them from the tabular by clicking on the [x] on the very right side of the row.

A bondora BOT for 2nd market

Found	Username			Score	Status	Repaid	Interest	XIRR	M/D	Price	issues	Del.
15:01:56	Boxxx	B		1000	●	4/60	15.45%	16.29%	2%	4.92€	0/0/1000	[X]
15:01:56	Boxxx	B		1000	●	5/60	15.29%	16.04%	2%	4.86€	0/0/1000	[X]
15:01:56	Boxxx	B		1000	●	4/60	15.45%	16.29%	2%	4.92€	0/0/1000	[X]
15:02:55	Boxxx	D		1000	●	5/60	22.48%	24.86%	1%	4.85€	0/0/1000	[X]
15:02:55	Boxxx	D		1000	●	5/60	22.48%	24.86%	1%	4.85€	0/0/1000	[X]
15:03:34	Boxxx	B		1000	●	6/48	16.1%	16.5%	2%	4.7€	0/0/1000	[X]
15:03:34	Boxxx	B		1000	●	6/60	15.61%	16.11%	2%	4.79€	0/0/1000	[X]
15:03:34	Boxxx	B		1000	●	6/60	15.61%	16.11%	2%	4.79€	0/0/1000	[X]
15:03:34	Boxxx	B		1000	●	6/60	15.61%	16.11%	2%	4.79€	0/0/1000	[X]
15:03:34	Boxxx	B		1000	●	6/60	15.61%	16.11%	2%	4.79€	0/0/1000	[X]
15:03:34	Boxxx	B		1000	●	6/48	16.1%	16.5%	2%	4.7€	0/0/1000	[X]
15:03:34	Boxxx	B		1000	●	6/48	16.1%	16.5%	2%	4.7€	0/0/1000	[X]
15:03:34	Boxxx	B		1000	●	6/60	15.61%	16.11%	2%	4.79€	0/0/1000	[X]
15:04:23	Boxxx	B		1000	●	4/60	15.45%	16.29%	2%	4.92€	0/0/1000	[X]
15:04:23	Boxxx	B		1000	●	4/60	15.45%	16.29%	2%	4.92€	0/0/1000	[X]

Job ended now.

Last rule 1 check: 25.6. at 15:04:22

Didn't match BOK7K62A3:
Found Inhouse| DCA issues: 4|0 (Last: 12)
Didn't match BO2K45253:
Found Inhouse| DCA issues: 8|0 (Last: 4)
Didn't match BO62A4553:
Found Inhouse| DCA issues: 6|0 (Last: 34)
Didn't match BO51AK393:
Found Inhouse| DCA issues: 8|0 (Last: 41)
Didn't match BO6551993:
Found Inhouse| DCA issues: 10|0 (Last: 199)

Clicking on the raw will bring up details from bondora in the main view (you have to be logged on at bondora.com) and some details on the right side.

Back

∨ SUMMARY INFORMATION

Borrower:	Boxxx	**Loan amount:**	**5€** (10,630€)	
Loan issued:	13/01/2017 07:49:23	Interest:	15.29%	
Last payment:	25/01/2022 00:00:00	Principal repaid:	0.06€ (0.24€)	
		Principal:	4.76€	
		Repaid interest:	0.06€ (0.27€)	
		Late charges paid:	0€ (0€)	
		Total repaid:	0.12€ (0.51€)	

∨ BORROWER

Payment day:	25	Job type:	**Entrepreneur**	Education:	**Higher education**		
Age:	50 (Female)	Work industry:	**Other**	Marital status:	**Single**		
Location:	VILJANDI LINN	Job title:	**Owner**	Dependants:	**0**		
Username:	BO9KAK131	Employment					

B 1000

Borrower: [link to user on bondora's 2nd market], female,

Listed on: 2017-06-24T10:05:47

Amount: 5€, Principal 4.76€
Last payment was: 2017-05-25
Next payment 0.12€: 2017-06-26(5/60)
Outstanding: 0€ Principal +0€ Interest

Interest: 15.29%, XIRR: 16.04%

Use of loan: Business

Buy it!

If you are a registered sponsor you can buy the loan by clicking the button or can go to bondora's 2nd market page to see all loans from this borrower. Of cause the username will be displayed instead of Boxxx.

By double click in the main or the right view you can return to the tabular and display window.

It may be that your loan is already purchased by someone else. Bad luck.

You can restart search and rebuild the tabular by clicking DO THE JOB.

STOP THE JOB will end the search (after all rules are checked).

The rules

You can use one ore more *rulesets*. A *ruleset* starts with a search string selecting some loans from bondora's database of 200.000 loans.

```
{"Name":"Perfect","Active":5,"SearchStr":"&HasNewSchedule=false&De
siredDiscountRateMax=2&PrincipalMax=30&LoanStatusCode=2",
```

The name of the ruleset doesn't matter.

Active has the following options

- 0   this ruleset will be completely ignored
- 1   all loans matching one of the rules will be shown/bought
- 2   simulation for automatic mode
- 5   detailed mode. Looks deeper into the repayment history of each hit.

Next is the search string. You have to read https://api.bondora.com/doc/Api/GET-api-v1-secondarymarket?v=1 to understand what to do here.

Important: you cannot choose less than 1 for DesiredDiscountRateMax it the statusCode is 2 ("green" loans). (There are sharks on the bot market. You wouldn't get any discounted green loan anyway and it is no good idea to buy defaulted loans by a bot… but you can try it an use a negative markup rate in this case.).

In the set of all loans returned by bondora now your rules are checked. You may define as much rule as you want. If one of it matches the loan is in.

```
{"Country":["EE"],"Rating": ["AA"],
"minInterest":10,"minXIRR":12,"maxLateAmount":0,"maxMarkup":2,"maxCost":20,"maxDCA":0,
"maxWait":15,"minPaid":5,"maxOut":55,"Score":950,"noIssue":[1,0,90]},
```

Country and Rating are necessary. It is an array so you can use i.e. ["AA","A","B"] as well.

I guess you easily understand minXIRR, minIterest and maxMarkup.

MaxLateAmount: a loan can be green but has not paid the rate of the very day. Choosing 0 does avoid such loans.

maxCost: the total cost (including markup) of a loan part

maxDCA: the maximum sum of DCA fees (i.g. 35% of late payments) – 0 will be safe.

maxWait: days to the next scheduled repayment

minPaid: # of schedules paid

maxOut: # of future schedules

Score: only for estonian loans. The score of the loan has to be greater, so choose 950 if you want only 1000 loans.

maxAmount: max total principal lend

noIssues: only if action=5

max # of inhouse issues (there are always 2 – started and paid) / DCA issues /
min # of day since the last of those had happened.

This option will need about 2s for each loan to test. So you will find better loans but perhaps someone else will be faster and you will get nothing. Try it and find your optimum.

The rules end with '#'
There has to be an empty line after the #.

If you use more then one ruleset they will executed rotatory.

The bot will load the first page of 1000 loans which match the searchstring of the first ruleset. It will collect all loans that match any rule in this ruleset. Then it will show/buy them (action=1) or search for late payment issues (action=5). In the later case this will need some time (about 1.5s for each loan that is tested). If there are any good loans the will be shown/bought (if it is not too late and any other bot was faster).

Than the bot will continue with the second page (if there is) and so on. After that the next ruleset with another searchstring is used...

The automatic mode

If you trust the bot and your rules (and that is only your decision) you can try automatic purchases.

Of cause the bot will only buy without your help if you set autoBuy :1.

Then all the loans shown in the table in manual mode will be bought instantly.

You can define some restriction in that case:
"simultan":4 → the bot tries to buy in packages. If on loan in a package is yet sold, the whole action is canceled. Within a package the useLimit can not be checked. So use 1 of you don't need a fast bot.
"sumPerDay":300 → the sum the bot will spend on one day. Because not every purchase will be successful you may use a greater value.

"minFreeCash":100 → the bot will go to sleep if there is not more free cash in your account

"userLimit":30 → these is a little bit experimentally. To avoid that the bot will buy hundred of loans from the same borrower (actually it did 25 in my fist tries) you should use this value. It is a sum in € and will not be very accurate.

Restrictions

These are technical so don't blame me :)

- Bondora allows only 1 api call every second. That causes some conflicts if the requests are loaded slow because there is heavy traffic on bondora's side.

- In such cases the log often shows "pending". These opportunities are lost but there will be new in a couple of minutes or hours again.

- You can use 1 bot with 1 bondora account simultaneously. If you start the bot on another PC the first one will stop.

- It can happen that the bot hangs up. Then the time on the right side showing the last search will not change. Press F5 and restart the app. After some days you should restart the app

anyway.
- I'm sorry my English is not the best but I hope you understand how the bot works.

I don't explain the logs and history, just take a look yourself it has no effect to your money. Don't worry if the logs shows a lot of missed loans. That's bondora.

Good luck!
Martin aka Oktaeder