

## Section X.I

\*Some words (predefined) will completely exclude the addition of a new NGO. For this an implementation of finite automata was implemented, where if any of the words are found in the description of the organization, it will be automatically rejected, warning the user of their intentions.

For instance:

```
curl --location --request PUT 'http://localhost:8080/ngo?name=NGO Test Education&website=www.test.com&description=Test demo UVT PI zdoop&imageUrl=http://www.kickvick.com/wp-content/uploads/2014/09/powerful-photos-18.jpg&api-key=keyz&address=Timisoara Romania UVT&location=Timisoara&areas=AGRICULTURE&funded=01-02-2015'
```

Will return:

```
1  ✓
2  "message": "The description contains forbidden words. Cannot be send for approval!",
3  "ngos": null
4  }
```

This is because the word “zdoop” is curently in the forbidden words list.

More information about this functionality can be found @PatternAutomata class where you can found it's stable method: search

In addition to this, a priority queue(actually a minimum binomial heap) has been implemented in order to serve for the /prioNgos endpoint.

In this case, a binomial heap was implemented in order to retrieve(main functionality) the first priority(0 is the most prioritized) NGOs.

More information about this can be found within class @BinomialHeap

Information about this endpoint can be found at the swagger documentation ({url}/swagger-ui/index.html)