

Ural Federal University

Software development management

Crypto news aggregator

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Table of contents

Introduction	3
Main part	4
Planning.....	4
Development.....	4
<i>Learning Git.....</i>	<i>4</i>
<i>Parser creation</i>	<i>4</i>
<i>Testing and Maintenance.....</i>	<i>5</i>
<i>Database interaction</i>	<i>5</i>
Project management via Youtrack	5
Conclusion.....	6
Group members` work	6

Introduction

The goal of the project *Crypto news aggregator* is to give crypto traders and investors a comprehensive understanding about crypto market, community and regulations. The main idea of the project is to gather the latest news from the different crypto websites into one database.

The team consists of five developers. One of the challenges is the project management and collaborative work, therefore diverse methods can be applied. They are Git and Youtrack.

The more detailed view of the project is presented in this report and final presentation.

Main part

Planning

The whole project has been divided on several parts. First of all each member of the team had to choose one website with crypto news. Git repository has been created. Python has been taken as the program language. The main features of the articles, such as link, title, source, timestamp, text, are used as columns for database.

Development

Learning Git

Git is used for project versions control. For doing this task the web tool Gitlab has been chosen for team cooperation. The main idea of it is creating branches for each member of team and then merge them into one working version (here master) after verification and testing.

The commands to take and send changes:

```
git pull origin [branch_name]
git add .
git commit -m "comment"
git push origin [branch_name]
```

Parser creation

- Cointelegraph

Cointelegraph is the website with a wide range of news on blockchain technology, crypto assets and emerging fintech trends. It focuses on accurate and up-to-date news. The content is based on in-depth analytics, comprehensive cryptocurrency price charts, insightful opinion pieces, regular reports on the social transformation that digital currencies bring.

Cointelegraph parser is written via *.json file opening. The main features, which are mentioned before, were taken and saved into list. Ten latest news have been added.

The final result have been inserted into common database eventually.

- Coinspeaker

Coinspeaker is an electronic site with a set of encrypted currency and information technology and Blockchain. The content of the site is based on the analysis of each business world and blade currencies, reports, and digital currencies.

Coinspeaker parser is also written via *.json file opening. The main features were taken and saved into list.

And The final result has been inserted into common database eventually too.

Testing and Maintenance

The automated tests were implemented to verify the correct work of the parsers. Additional alterations after analysis have been made by each member of the team

Database interaction

Database sqlite3 have been created in Python with table *Articles*. The file *.db has been added automatically in the project folder.

The results of each parsers were added row by row into the database.

Project management via Youtrack

Youtrack is the web tool for project management. It has useful features for collaborative work of team. One of the methods is Scrum, where the work is divided on short sprints with tasks for each member.

Agile board helps to create sprints and therefore to use Scrum technology. An example of agile board is presented on the figure 2.

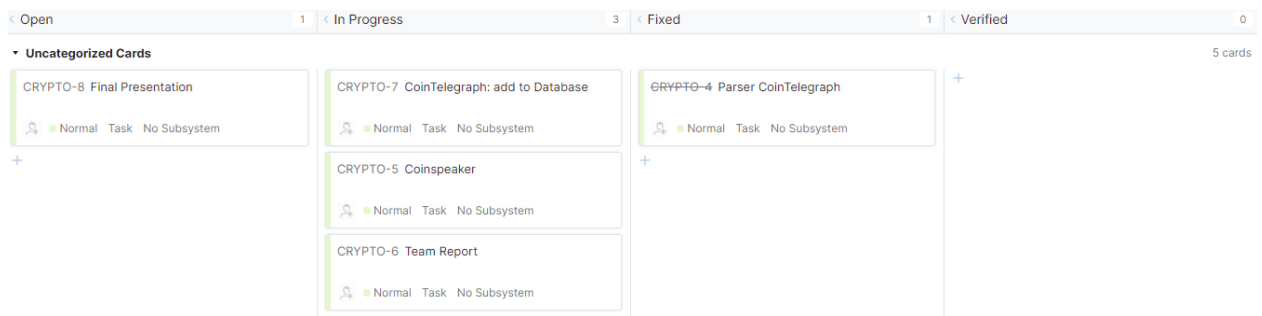


Figure 2 – Agile board

Conclusion

During this project the team has received new skills and knowledge about Git, project management via Youtrack and Python.

The work on the project is presented at the Gannt chart (Figure 1).

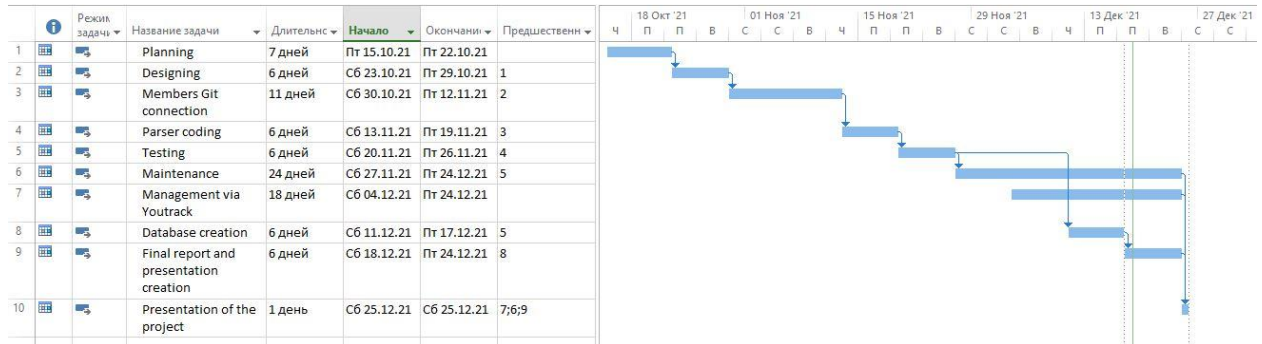


Figure 2 – Gannt chart

Group members` work

Member name	Tasks accomplished
Evgenia Zakharova	Cointelegraph parser Database creation and processing Youtrack management (Agile board) Gantt diagram Report maintenance
Murooj	Coinspeaker parser Add data to main database Create Coinspeaker file in Youtrack Add the information to the report