

# Образовательная электронная система

ЛОМОНОСОВ-21



Foxhound team

# TEAM FOXHOUND



**Nedogarok Anton**

*C++/Qt/QML, ML/Keras,  
Python*



**Bogachev Maxim**

*Frontend, Bootstrap, JS*



**Petrov Anton**

*Frontend, Bootstrap, JS*



**Semennikov Kirill**

*Python/Flask/Pandas,  
Frontend, C++, cybersec.*



**Soldatov Vyacheslav**

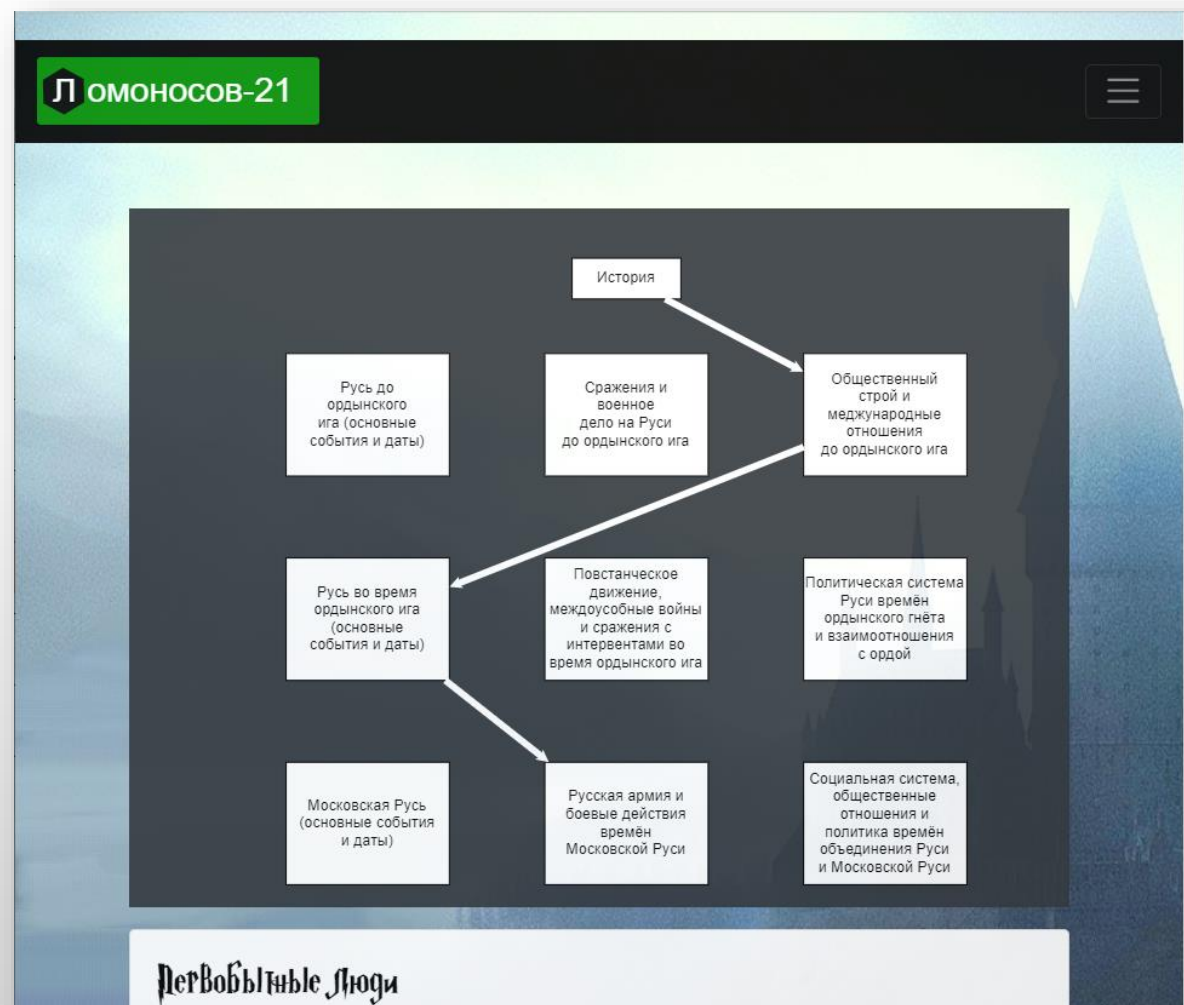
*Frontend, Backend*

# PROJECT GOALS

- Adaptive educational track
- Individual and team motivation, competitive spirit
- Gamification
- Automation of tutor's work
- Cute place, where want to return again and again

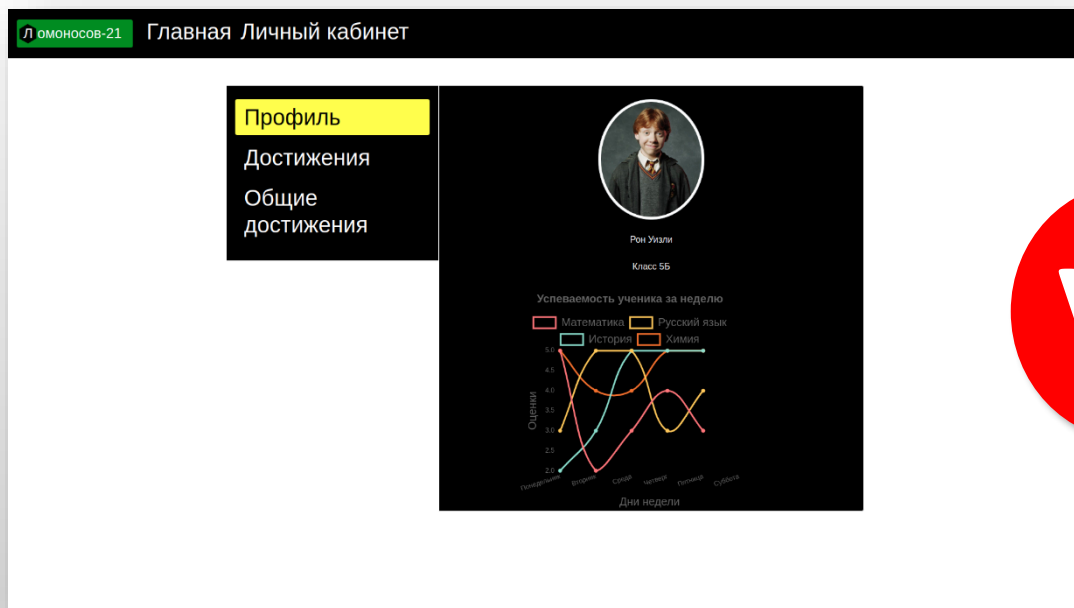
# WHAT'S DONE

- Adaptive track

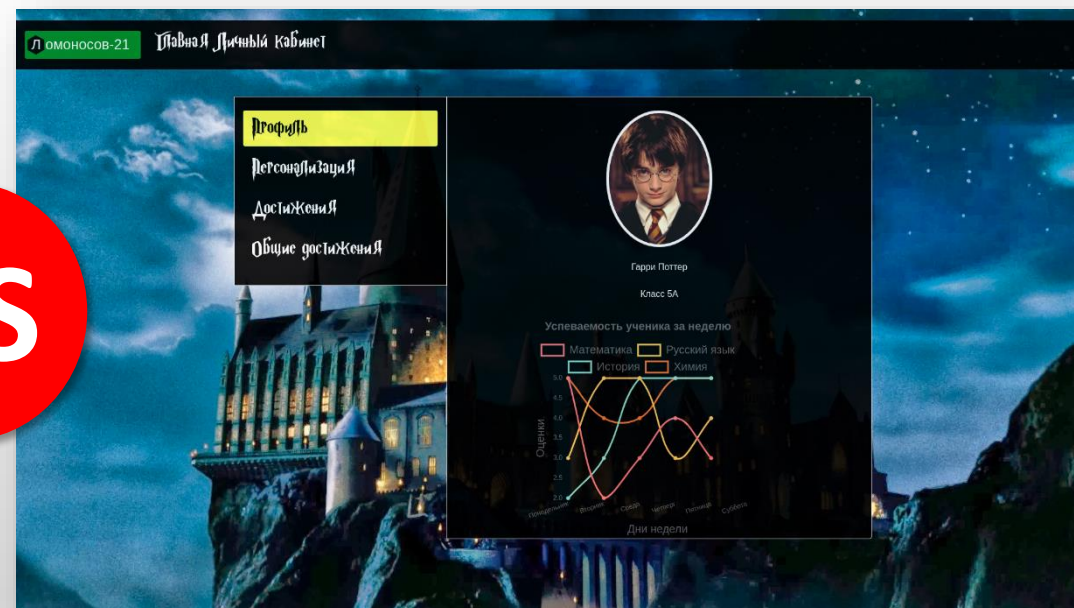


# WHAT'S DONE

- Individual motivation. Allow page customization and skins for pupils with greater progress



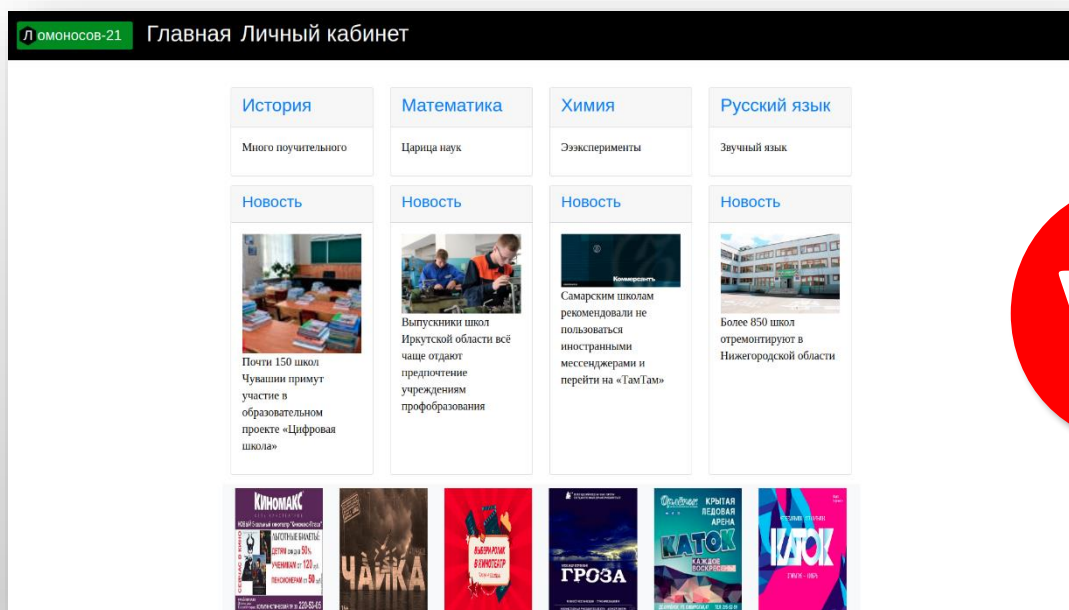
VS



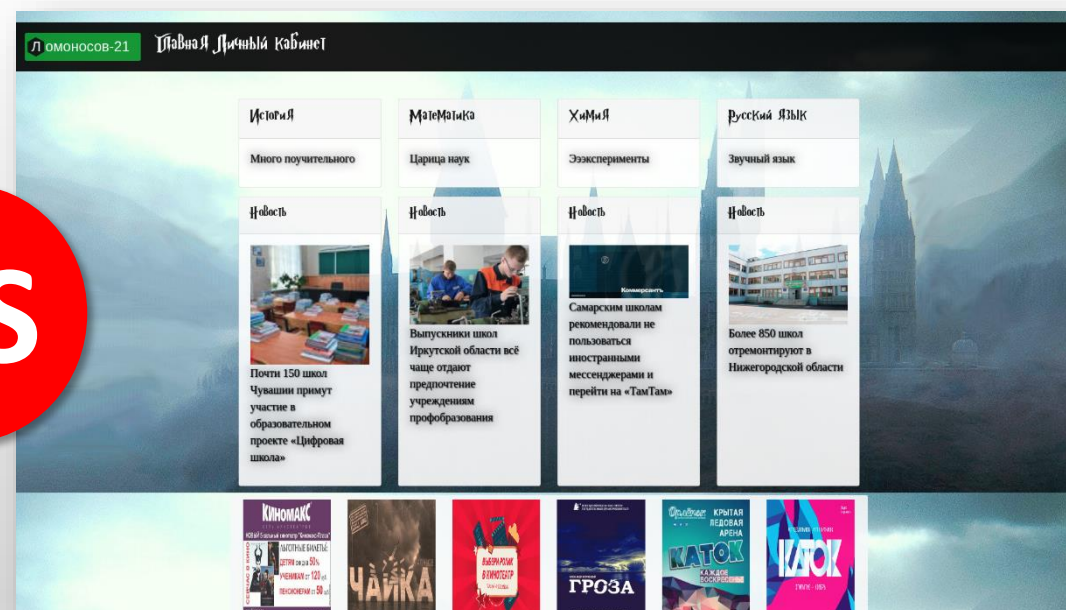


# WHAT'S DONE

- Individual motivation. Allow cute customization for pupils with greater progress

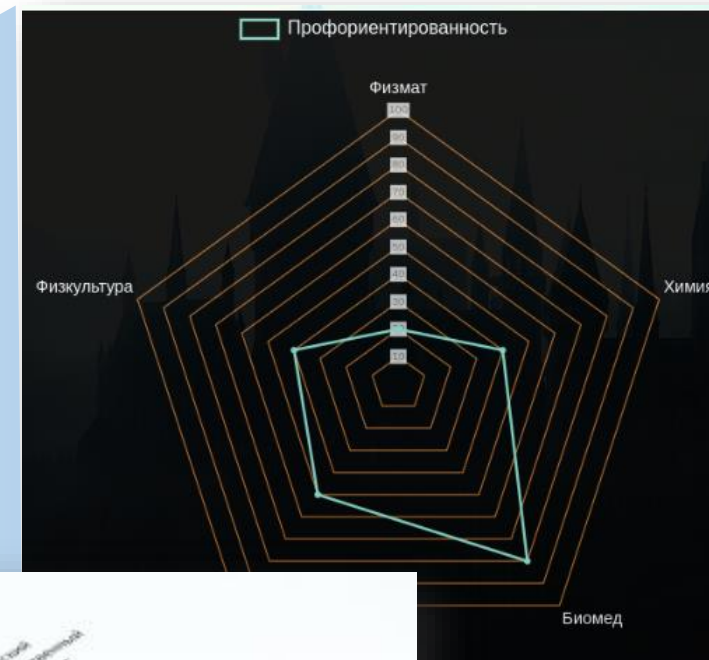
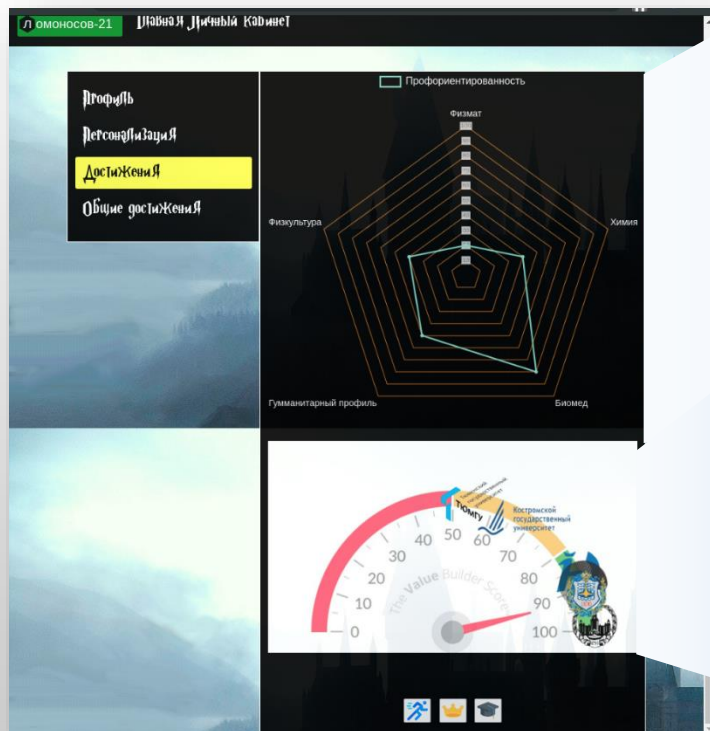


VS



# WHAT'S DONE

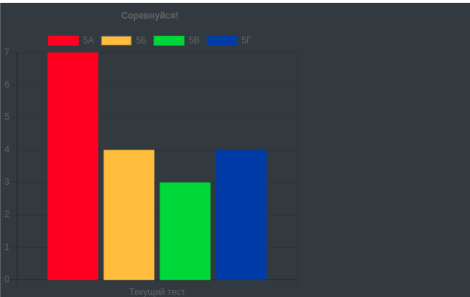
- Individual motivation.  
Game-like stats.



# WHAT'S DONE

- Teamwork motivation by competing between «clans».

21 Главная Личный кабинет



0:01:27

Вопрос 1 из 3

Эпохи

Расположи эпохи по возрастанию


- Рим
- Первообытные люди
- Египет

Следующий вопрос

Личный кабинет

Вы состоите в группе Астероид

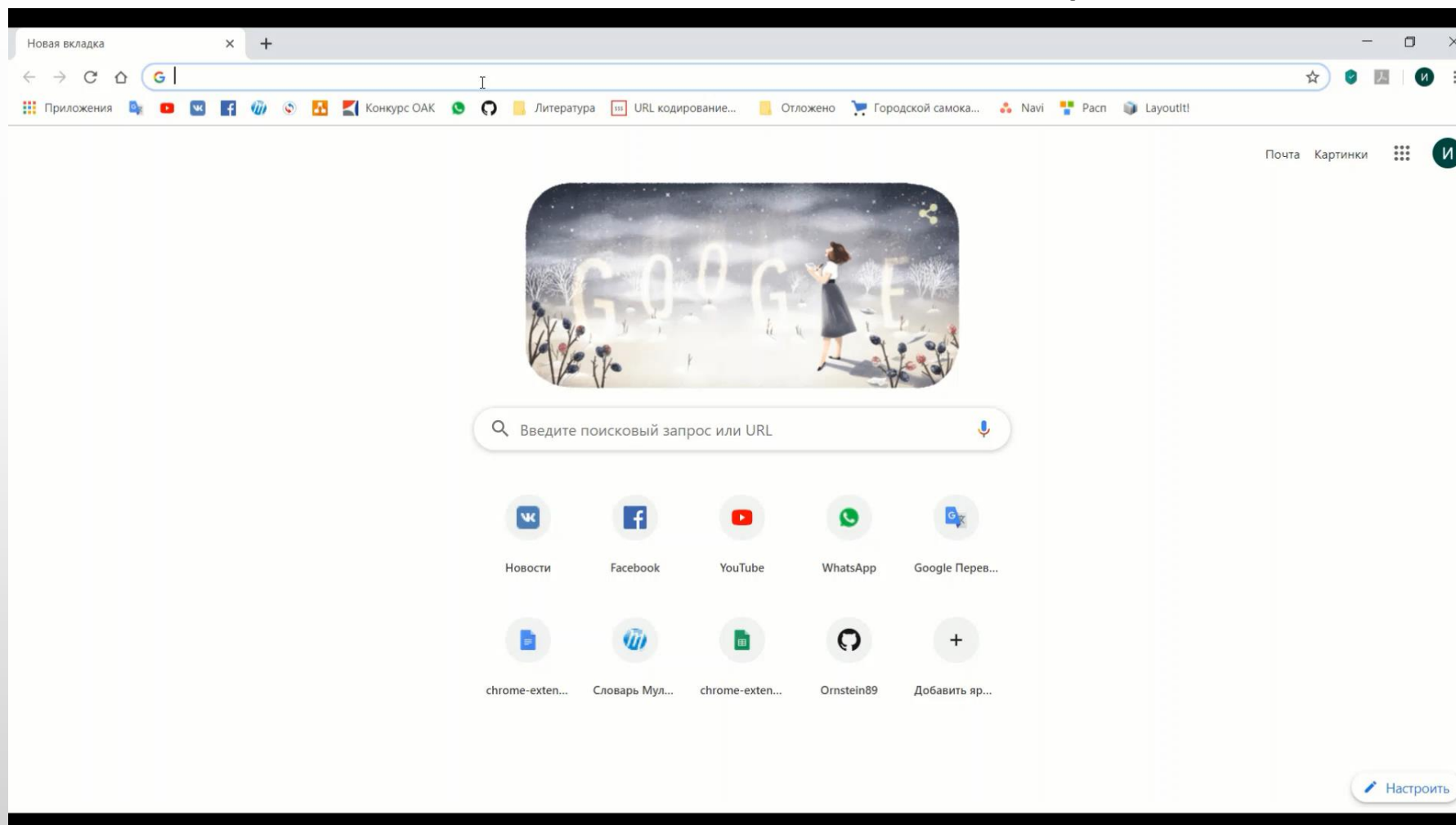
№	Название команды	Учебная деятельность	Внеучебная деятельность
1	Полёт	<div><div></div></div>	<div><div></div></div>
2	Астероид	<div><div></div></div>	<div><div></div></div>
3	Вертолётчики	<div><div></div></div>	<div><div></div></div>





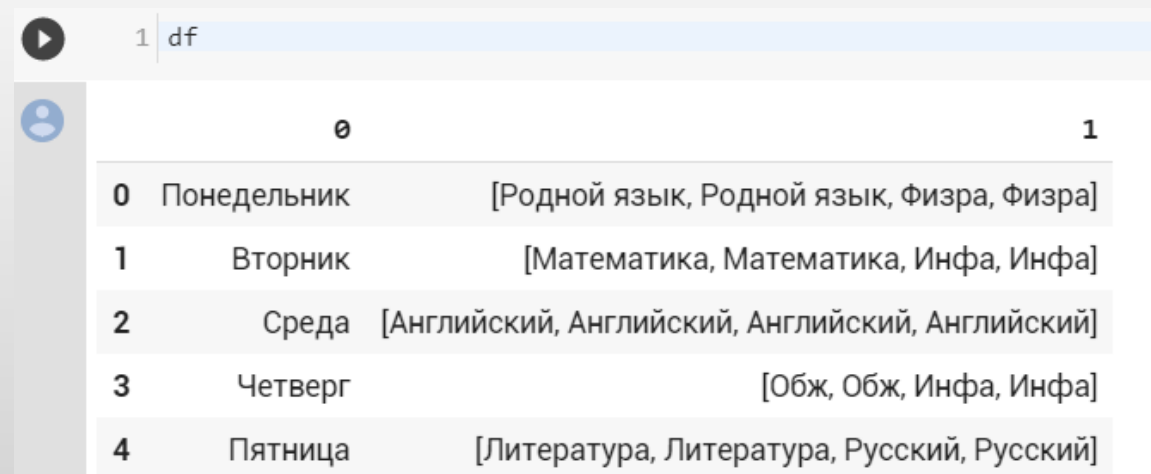
# WHAT'S DONE

- Demo video in file Lomonosov21Demo.mp4



# WHAT'S DONE

- Teacher's backend partially implemented on <http://91.245.227.86/api/plans>.
- Schedule-generation algorithm shown in Jupyter Notebook ([Google Colab link](#)).



The screenshot shows a Jupyter Notebook interface. At the top, there is a code cell with the text 'df'. Below it, a table representing a DataFrame is displayed. The table has two columns, indexed 0 and 1. The rows represent days of the week from Monday to Friday, with their respective subjects listed in the second column.

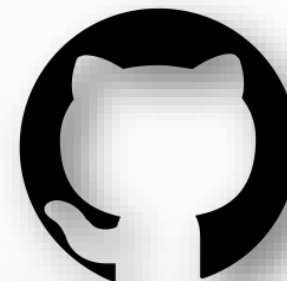
	0	1
0	Понедельник	[Родной язык, Родной язык, Физра, Физра]
1	Вторник	[Математика, Математика, Инфа, Инфа]
2	Среда	[Английский, Английский, Английский, Английский]
3	Четверг	[Обж, Обж, Инфа, Инфа]
4	Пятница	[Литература, Литература, Русский, Русский]

# STACK

django



Bootstrap



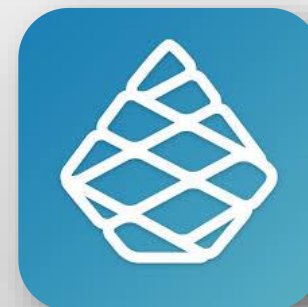
Pandas



Chart.js



mxGraph



# BUSINESS PLAN

6 mnth.

2 years

**Pre Seed**  
**Inv. 75 000\$**

- R&D
- Testing
- Release
- Market entry

**Seed**  
**Investment 75 000\$**

- Grow market share
- Customer support
- Features R&D
- Reach payback

**Payback**  
**Profit >125 000\$/month**



# MONETIZATION

- School subscription per each school student  
0,3\$/mnth (20 p/mec.)
- Advertising on the platform for 100\$/mnth  
(10 000 p/mec.)
- Extra educational content

# What is to be done...

- Mobile app
- Tutors and admin's portal

# REPOSITORY

[https://github.com/Ornstein89/  
FoxhoundTeam\\_MoscowHack20  
19](https://github.com/Ornstein89/FoxhoundTeam_MoscowHack2019)



# TEACHER'S PORTAL

<http://91.245.227.86:8081/>





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