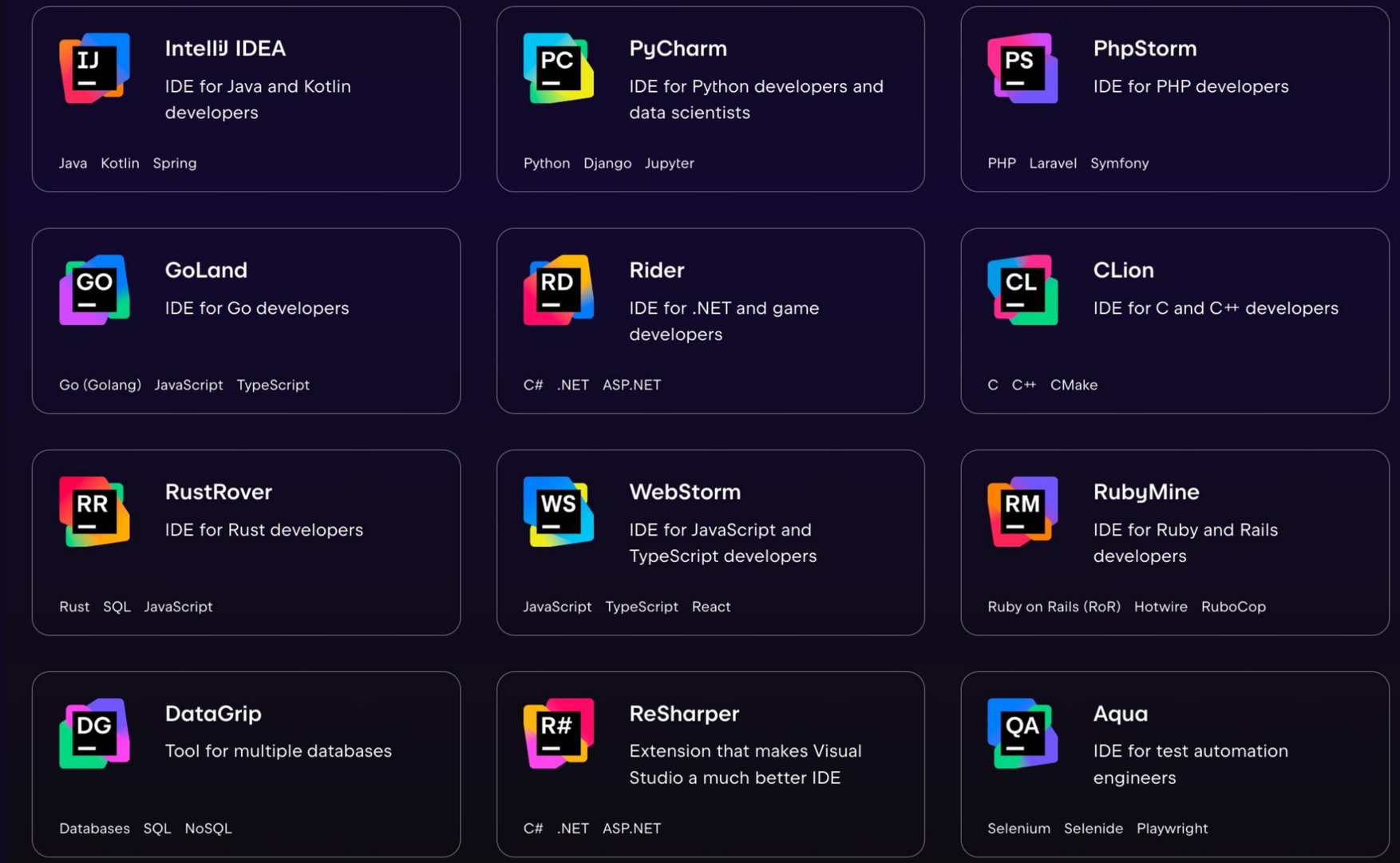
JETBRAINS

Help The Developer

Challenge for UoBD Hackathon

Name
Developer



JetBrains IDEs

How to try?

Free Educational Licenses — for Students and Teachers!

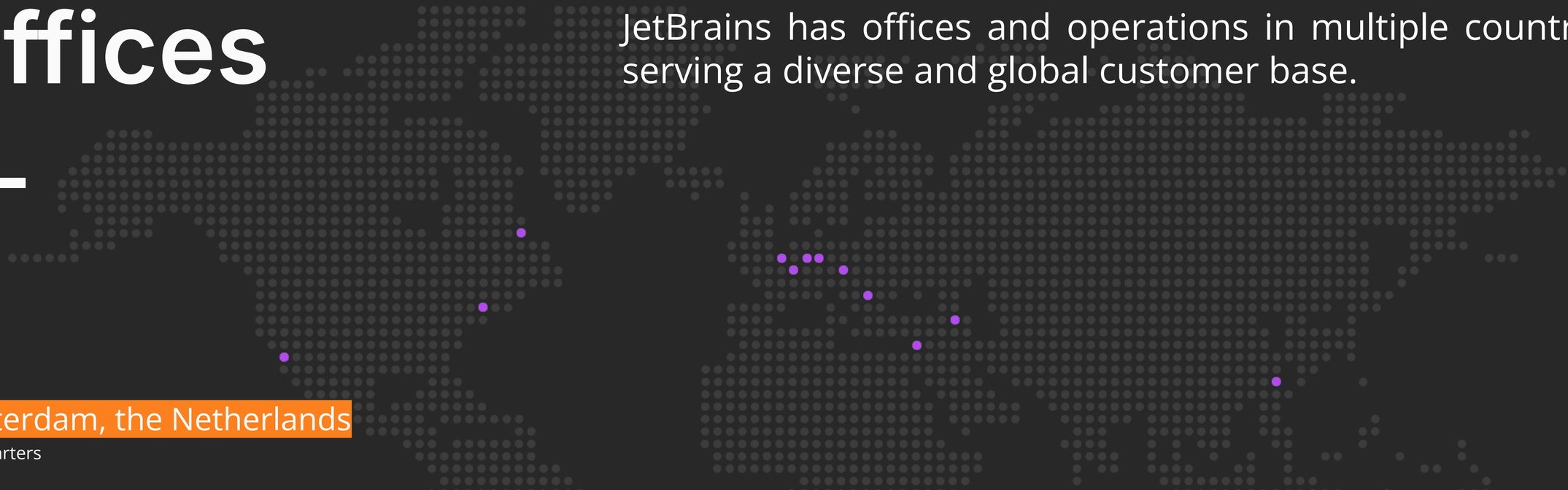
- Must only be used for non-commercial educational purposes
- May be renewed free of charge as long as you are a student or a teacher

- Official school email address
- Or GitHub Student Developer Pack account

https://jb.gg/cnv7yj

Offices

JetBrains has offices and operations in multiple countries, serving a diverse and global customer base.



Amsterdam, the Netherlands
Headquarters

Marlton, USA
US Sales East Coast

Foster City, USA
US Sales West Coast

Shanghai, China
China Sales

Munich, Germany
R&D Center

Prague, Czech Republic
EMEA and APAC sales

Boston, USA
R&D Center

Berlin, Germany
R&D Center

Belgrade, Serbia
R&D Center

Warsaw, Poland
R&D Center

Paphos, Cyprus
R&D Center

Limassol, Cyprus
R&D Center

Yerevan, Armenia
R&D Center

Hackathon case

Case description

Help the Developer

Case description

Context: we invite you to create an innovative application or plugin that simplifies the lives of developers.

Application or IntelliJ-based plugin with the primary purpose of making the lives of developers easier:

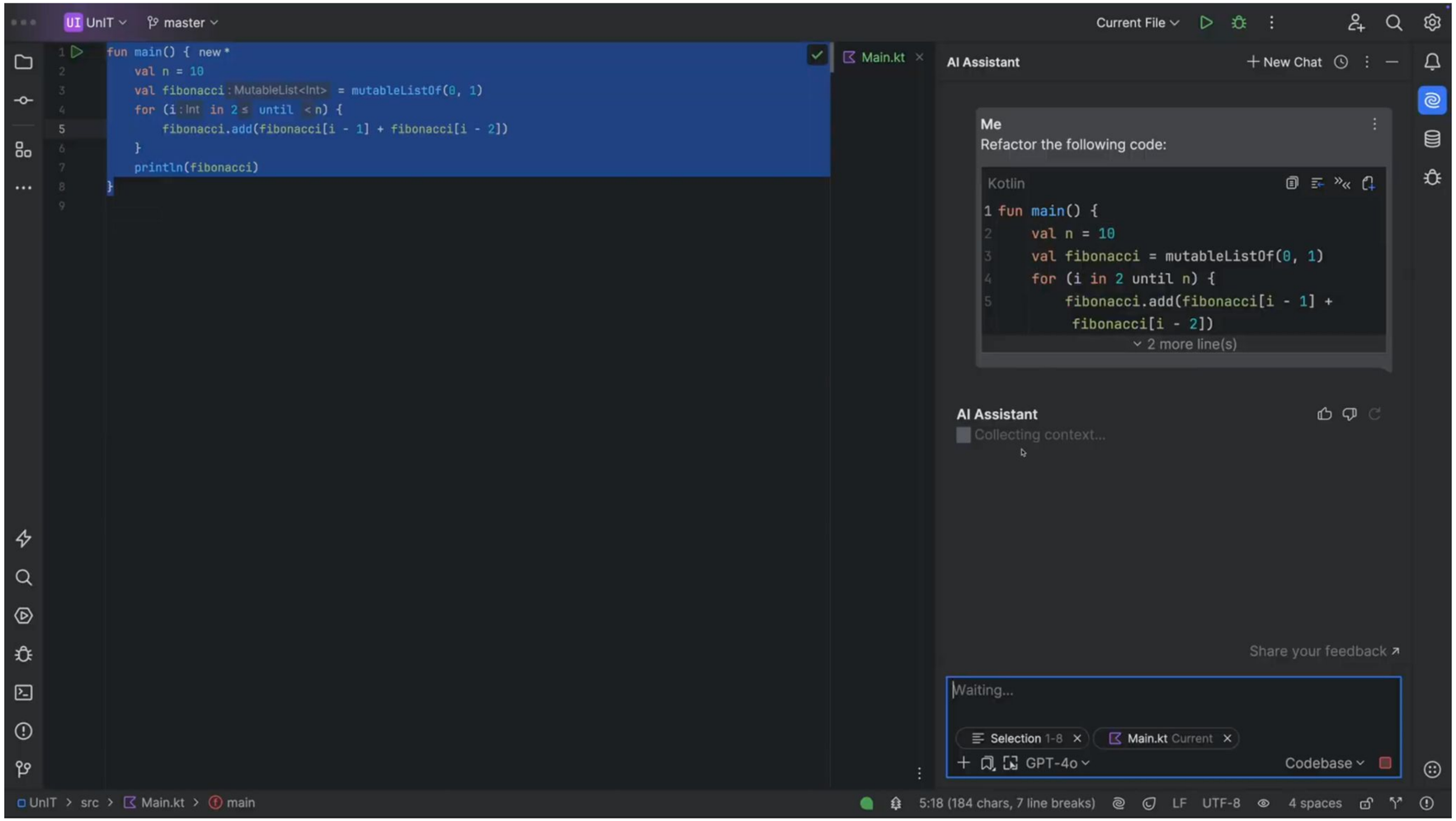
- Routine test creator or
- Refactor suggester or
- Your Idea → anything the team comes up with, can be even on META level. The challenge is to create an application that will make your coding experience more comfortable.

Final project: an IDE plugin, a web-app, a desktop-app, a mobile app...

Inspiration and Examples: Refactoring

Case description

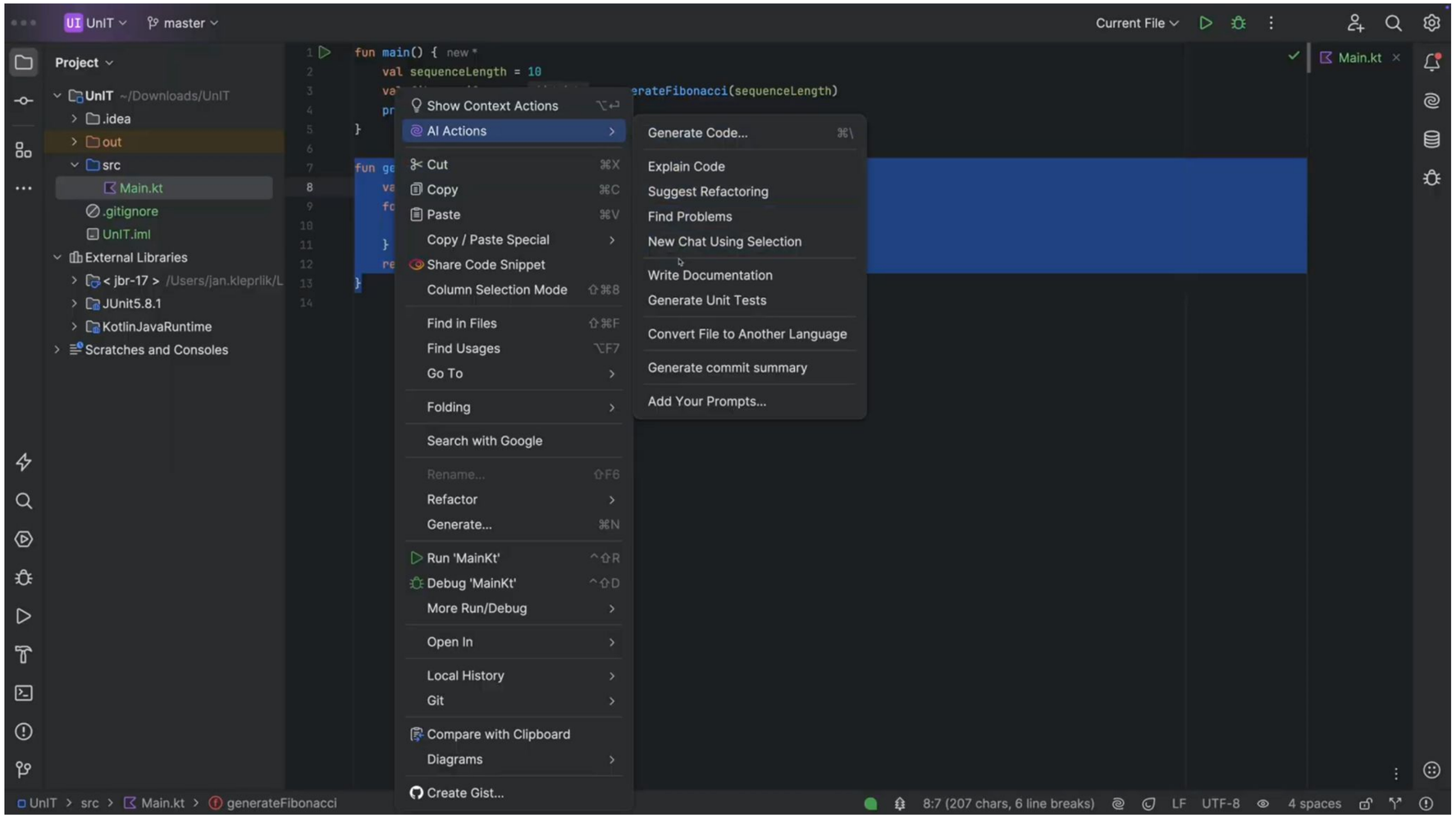
Help the Developer



Inspiration and Examples: Generate Unit tests

Help the Developer

Case description



Judging Criteria

Help the Developer

Case description

Your submission will be evaluated based on the following criteria (in order of priority):

1. Implementation and Proof of Concept
2. Technical features
3. User experience and interface
4. Innovation and Creativity
5. Presentation (5 minutes + 3 minutes Q&A)

OpenAI API key

Help the Developer

You can use the OpenAI API for your task.

The OpenAI API key - drop a message in the Discord thread.

Useful resources

How to start: useful resources

Basic IDE plugin

If you consider implementing a **plugin** for JetBrains IDEs, we could recommend several resources:

- JetBrains Academy courses:
  - **IDE Plugin Development Course** - basics about PSI and creating plugins
  - **Coroutines and channels** - a course about using coroutines in IntelliJ IDEA
- To start implementation quickly, you can use **IntelliJ Platform Plugin Template** and IntelliJ **Platform Plugin SDK documentation**
- **Here** and **here** you can find examples which demonstrate how to use OpenAI models inside the IntelliJ IDEA plugin
- To inference ML models inside the plugin, you can use **KInference** library

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Thank you for your attention!