Technical test

Tibia server log

https://ambiparbleu.monday.com/protected_static/3730573/resources/84936278/Server%20Log%20%281%29.txt

1. About

Welcome to Ambipar Bleu technical test for the following positions.

- Frontend, Backend, Mobile and Fullstack software engineer;
- Quality Assurance Engineer;
- Product Manager;

You're welcome to choose the programming language that you feel most comfortable with.

2. Requirements

These are the requirements that you will need to complete the task:

- Git
- A development environment
- A Tibia server log

3. Tasks

3.1 Log Parser

Develop an application to process and extract data from Tibia server log.

In this log, a new line is created whenever the player executes some action, or is involved in some world action.

The application must:

- Read the log file
- Extract the following informations from the log:
  - Total damage healed by the player;
  - Total damage taken by the player;
  - Total damage taken by the player per creature kind;
  - Total experience received;
  - Amount of items dropped by each creature;

Example

> *15:43 You lose 31 hitpoints due to an attack by a cyclops.*

Your character lost 31 health points due to an attack of a specific creature kind (cyclops).

> *15:41 You lose 1 hitpoint.*

Your character lost 1 health point due to an unknown origin

Output example:

```
{
  "hitpointsHealed": 200,
  "damageTaken": {
    "total": 254,
    "byCreatureKind": {
      "cyclops": 25,
      "dragon": 225
    }
  },
  "experienceGained": 230,
  "loot": {
    "gold": 100,
    "hatchet": 2,
    "strong health potion": 1
  }
}
```

Additional Notes:

- Total damage must consider damage taken by unknown origins;
- Unknown origins should not appear as a creature kind on damage taken.

3.2 Extra

Add the following information to the application output:

- What is the total health of Black Knight creature?
- What is the total damage taken by unknown origins?

4. Delivery

You must upload your project to some remote git repository like github or bitbucket and send it via e-mail to us.