

# University hackathon - themes

## Problem statement 1

G2 is the largest software marketplace in the world, with over 165,000 listed products and real reviews. Our mission is to help every software buyer make informed purchasing decisions. To achieve this, we want all B2B software products to be listed on G2 as soon as they become generally available. While this is common practice in North America, Asia, and some other countries, there are regions where G2 has low visibility and companies do not list their products with us. Therefore, we want to identify such products and get them listed on G2 proactively.

As an aspiring Computer Science graduate, we would like you to develop a system that periodically identifies new GA products (daily, weekly, or monthly), checks their availability on G2 using the API provided below, and provides a list of any products that are not yet listed on G2 (this could be in a database or a CSV file).

Here's the API endpoint that you can use:

<https://data.g2.com/api/docs#products> - You can filter by product name or domain using query parameters.

A secret token will be shared separately once you have registered to solve this problem.

## Problem statement 2

G2 has more than 2.5 million reviews for various products and services. These reviews help both buyers and software vendors in decision-making. One interesting aspect of the review data that we want to solve is to list the exact feature sets the customers are looking for. A few examples include application performance, the overall user experience, missing functionality, bugs, etc.

As an aspiring Computer Science graduate, we would like you to develop a system that analyses the review data for a particular product from G2 using the API provided below and provides a list of feature sets that the customers are looking for.

Here's the API endpoint that you can use:

<https://data.g2.com/api/docs#reviews-list> - You can use this batch API to fetch reviews of G2 Marketing solutions in a batch of 100 using the `page[size]` param. Once you have accumulated all reviews, `use an algorithm to find the customer asks`. The results can be printed on the console.

A secret token will be shared with you separately once you have registered to solve this problem.

### Problem statement 3

G2 regularly updates its website with new products by creating new categories and refining existing ones. One crucial aspect of this process is ensuring that each product has a precise description and URL before it is added to the site. We are interested in automating the process of updating product descriptions in our database. We will provide you with a few product URLs, and your output will be a brief 3-4 lines description of each product.