



Mini Hacker News

Overview

[Hacker news](#) website was taken down by a DDOS attack!

Developers around the world are frustrated and we have a very limited time to create a mini Hacker News-like system to replace the old one.

Specifications

Our mini Hackernews will have simple text as news posts.

We want to create a RESTful API to handle the post resource (create, update, read, etc).

This system will also support upvoting and downvoting a post.

Please note the following:

- Please check the [real Hackernews site](#) for reference.
- The posts and votes should be saved in a storage engine of your choice.
- The system may be implemented in any programming language.
- The task should be committed to GitHub.
- The REST API service and the storage engine should be dockerized and be formatted into a docker-compose YAML file.
- Bonus points are given for unit and/or integration tests for the system.
- There is no need to implement user authentication & management at this stage.
- Please provide a brief API description to the RESTful service you've created (README.md / openAPI spec / Postman file / curl examples etc)

Web service (RESTful API)

The service accepts json requests and responds with a json response

This service will allow the following actions:

1. A user can create a new post providing its text.
2. A user can update an existing post's text.
3. A user can upvote or downvote a post.
4. A user can receive the front page comprised of a list of "**Top Posts**":
 - a. The top posts list should return an array of posts.
Each post should include the number of current votes (upvotes - downvotes).
The array should be ordered descending by the post's **score**.
 - b. Posts **score** should be determined by a combination of the post's votes and the post's creation time.
 - c. Please take into account that the Top Posts page is being asked thousands of times per second and that the number of posts in the database may be **VERY HIGH** hence efficiency is critical for this endpoint.

Note: please do not limit the time window fetching top posts as older posts may also appear in the top posts response as long as they have high enough score (determined by 4.b)

Questions

Please forward any questions you have to egur@akamai.com

Best of luck,

The Akamai Team.