

# Digital Solutions Challenge

## Web Browser Log Catcher (in Javascript)

Frontend web applications usually keep errors and exceptions for themselves. (in console) . Console logs are returned to the user only.

This is an issue for web applications based on client-server structure, users usually raise some errors but it's not possible or difficult for technical teams to understand what happens on client side.

The challenge is to implement a JS client-side log catcher/appender/sender to send logs (occurring on client side only) to an external server.



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Digital Solutions

*Any questions?*

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## Objectives :

- facilitate Maintenance of applications
- anticipate fixing of some errors that some users may face and not visible for maintenance technical team.

## Requirements:

- Personal Computer
- Javascript IDE
- Web Browser (Chrome, Firefox)
- Web Server (nginx, apache, ...)

## Deliverables:

Send the written code (within allowed time) with a brief explanation on how to use it to:

- Loic on Slack
- By email to: [loic.andraud@saint-gobain.com](mailto:loic.andraud@saint-gobain.com)

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## Digital Solutions Challenge Scoring

*The challenge consists, in Javascript :*

- (20% of the score)      1/ Generate 3 type of errors by the code the most various as possible*
  - it should generate some errors in your browser console*
- (60% of the score)      2/ Catch in the code as much logs events as possible (if possible) :*
  - logs raised in the browser's console*
  - errors for JS Frameworks (React, Angular, Native JS, ....)*
  - errors for external requests to APIs*
  - CORS Exceptions*
- (20% of the score)      3/ Format log events following below Pattern:*
  - [FormattedDate] [LogLevel] [FileName] [Class] [Method] [Message]*
- ( + 5% <=100%)      4/ OPTIONAL (BONUS) : Queue Lines*
- ( + 5% <=100%)      5/ OPTIONAL (BONUS) : Automatically and regularly sends logs in queue to rest API (ex: Elasticsearch, Kibana, ...), and clear queue*