Node.js Challenges in Implementation

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Abstract

Node.js gave rise to the Full Stack Developers who are now able to manage server and client side by their own. Node.js is fast and reliable for heavy files and heavy network load applications due to its event driven, non-blocking, and asynchronous approaches, where developers can also maintain a complete projects in single pages (SPA) and can use for IOT. The result of study concludes from a survey and from literature review the implementation areas and challenges of the Node.js. Lastly will provide suggestion on how to improve to overcome the challenges.

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The Node.js Security Roadmap discusses how some Node.js projects address security challenges, along with ways to make it easier for more projects to address these challenges in a thorough and consistent manner. This is not the opinion of any organization. It is the considered opinion of some computer security professionals and Node.js enthusiasts who have worked to make it easier to write secure, robust software on other platforms; who like a lot about Node.js; and who would like to help make it better. A security roadmap aims to identify where the community is security-wise, where we might go.

Implementation of the conversion is pretty similar to what we had in JavaScript: getting the input and output file paths as strings and calling `toGrayScale`. `void toGrayScale(std::string inPath, std::string outPath) { cv::Mat image, gray_image; image = cv::imread(inPath, 1); cv::cvtColor(image, gray_image, CV_BGR2GRAY); cv::imwrite(outPath, gray_image); }

On the other hand, there are already plenty of libraries ported to node.js that provide bindings to various existing C libraries. In this case, development and build phases have a complexity of “just another npm dependency”. Still, you need to take care of testing, but we expect you already have.