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# NodeJSFORMATICS

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#### **ABSTRACT**

**Motivation:** Node.js is a platform to build fast, scalable network applications. To reach this goal it runs in Chrome's JavaScript runtime Engine V8. Furthermore it uses an event driven and non-blockig IO model to ensure lightweight and efficiency. Many companies such as Uber, ebay and PayPal successfully integrated NodeJS in their development stack. To analyse the advantages of using NodeJS a project will be developed with it.

**Results:** The resulting project is a website where you can bet on football against your friends. It shows main concepts of NodeJS such as non-blocking Input/Output and its event driven model. To present the results in the final presentation a fake server has to be deployed which delivers random events during a football match.

**Availability:** NodeJs is licensed under the MIT-licence which allows its use for commercial and non-commercial projects. It is under active development and open source. The files are available on Github.

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#### 2 MINIWEB - APP

- 2.1 Architecture in detail
- 2.2 Used technologies
- 3 SINGLE THREADED
- 3.1 Scalability
- 3.2 CPU intensive operations
- 4 IMPORT MODULES
- 4.1 Socket.IO
- 4.2 expressJS
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#### **5 MULTI-THREADING**

- 5.1 Traditional Threaded Web Applications
- 5.2 NodeJS approach
- 6 DISCUSSION
- 6.1 Advantages of using NodeJS
- 6.2 Disadvantages of using NodeJS

#### 6.3 Conclusion

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## 1 WHY NODE.JS

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### **REFERENCES**

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