Discount Mate Backend Research

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# Proposed technology

## Node JS

Backend development with Node.js is everything but a perfect notion and is utilised to create many mechanised applications on the web. It has numerous advantages and is appropriate for developing business-to-customer or enterprise applications. Few of most notable advantages of NodeJs are Scalability, High Performance, Cross-Platform Development, Large Community Support, web App development & Caching.

**The following are the key characteristics of Node.js:**

• It is a server application framework.

• It is open-source and works on a variety of systems.

There are many best practices to make an application which is reliable and secure using NodeJs.

## MySQL

We decided to use MySQL because it is an open-source relational database. It is a scalable, flexible, and high-performance database. MySQL is cross-platform so it can be run on many different operating systems, such as windows, Linux and macOS. This type of database is also one of the most secure and reliable databases and because it can encrypt its data such as passwords or usernames and it is open source, so it is very frequently updated. We chose a relational database as we will have relationships between our stored tables as seen in data flow.

# Middle stack

To maintain a close connection as well as collaboration between front-end and back-end developers, we believe that it is necessary to have a middle stack developer who is responsible for improving the connection and the compatibility between both sides, whereby front-end and back-end developers can concentrate on their tasks with no concern about the API Endpoints.

# Alternatives

Django

* Ease of use
* Lots of features
* Secure
* High scalability

## Laravel

* Easy to learn API
* Friendly testing
* Easy to read logs and error handling

## Express JS (node js)

* Easy to learn
* Full-stack JavaScript features
* High performance

# Database table layout

