



## MERN vs LAMP: Choices for Newbie Developers

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### Abstract

This paper introduces the difference between MERN and LAMP stack, which are two of the popular developer software stack. In this, we will try to contribute readers to pen down some points to choose between their stack to use for their first-ever project.

### Introduction

When usually you try to do all on your own, you get attracted towards the full-stack developing fashion, then that it hits, " **That what is a stack?**". It is a set of tools used to develop web apps.

Then with all the diversity and daily emerging and refining languages and other varieties coming up, you just get lost about what to use, but also sometimes because of the lack of proper information and get stuck, so here you will get the information about all.

**LAMP** is the most practised stack, from the both of the stacks. By being first in use it has gained all its popularity, hands-on examples and lots of boilerplate free code. Therefore, many popular websites and companies still use it which makes it a must skill to acquire for a handsome job and still when you get caught up you have tons of examples to go through.

**MERN** is the new star of the stack world, consist of some powerful and multi-platform scripts which combine make a good team but as solo, they are solid tools and just by changing a bit you can easily jump to MERN to MEAN to MEVN stack so, you got lots of choices. It is mostly famous because it supports code and programs written in Javascript, say the client side and as well as server-side, gives you a plus point of easy to use a single script on both sides.

### LAMP

**LAMP** stands for **LINUX(L)**, **APACHE(A)**, **MySQL(M)**, **PHP/PYTHON/PERL(P)**, where Linux is the Operating System which is used, MySQL is the database or call relational database management system, Apache is the HTTP Server and PHP / PYTHON / PERL is the programming language used and there is no compulsion. LAMP is mostly interchangeable like in place of Linux you can use window (WAMP) and using macOS make it (MAMP), MySql can be replaced by PostgreSQL which is an

object-relational database management system, maybe MongoDB which is Open source NoSQL which has relational database structure but favour JSON-like document with the dynamic scheme.

## Pros and Cons

### Pros:

1. It is famous for its security structure and because of its popular framework it is hard to go to the files and frameworks like Laravel and Codeigniter you need to go through the structure and it's tricky.
2. It is having a large community which provides a wide range of resources to use while creating a project, solving the error, making changes and to learn too.
3. Allows the user to host from anywhere.
4. The whole internet internally depends on it, it is not going to vanish very well so still good opportunity high pay jobs.
5. It goes well with so many major CMS like WordPress, Drupal etc.

### Cons

1. Not the latest one, so people follow the latest trends and jump to the latest yet it will not vanish now but will before MERN Stack is good to adapt.
2. Not as effective and efficient and easy and productive than MERN as fast we get the new technology it simplifies the work and increases productivity.
3. As because of the popularity there is so much competition out there and the 1/2 year experienced developer has worked on it, so it doesn't make you stand out of the line, unless you are among the best.

## MERN

MERN stands for MongoDB(M), ExpressJS(E), ReactJS (R), NodeJS(N). MongoDB is the database used, ExpressJS is the back-end web app framework, ReactJS is the Javascript library for building a user interface, NodeJS is the cross-platform Javascript runtime environment. MongoDB which is Open source NoSQL which has relational database structure but favours JSON-like documents with the dynamic scheme. Just like MERN, MEAN stack is also famous but people are more into MERN as AngularJS (A) is a framework which is a structure where the developer writes code but ReactJS is the library mean it has some of the code pre-written in the which we just need to call after attaching them which makes code a little cleaner and decreases the line-of-code. If your javascript is good then you can work on it because the front and back Javascript is all there.

## Pros and Cons

### Pros:

1. New technology so, new functionalities, new trends, high demands, uniqueness and high package salary.
2. Easy to use, clean code and less line-of-code.
3. Cross-platform database.
4. Because so much of Javascript which is browser language is faster.

**Cons:**

1. You stand out but also get less support and resources.
2. Because of the same code in the frontend and backend, it compromises security.

**Conclusion**

As both are open source if you want to just try and decide. It depends on what you want, if you just starting and just want to jump to the corporate job then use MERN but, if you need to explore and create something new and just need help then use LAMP. None of them is a bad choice but the thing matters is you need to be an efficient error less clean code writer.

