

# What is stack web development?

Stack means piles of objects. In web development it is piles of layers. Modern large web applications are developed in layers. Front end, backend, database and so on. One layer of code is managed totally separate from others. In a large application development, many developers are assigned to write code specific to a layer. For most web applications it is divided into main two layers only, frontend and backend. Database layer code is written in backend only.

## Backend Developer vs Front End Developer vs Full Stack Developer

In a web application, the front end means the user interface and the backend constitutes the APIs. An user interacts with the software through an interface and requests for information. The interface collects the user request, processes it internally and sends it (usually via JSON format) to the backend via an API call. The backend API connects different parts of the system as required (say database server, mail server etc), processes it and sends it back to the front end interface via the same API.

The job of a **front end developer** is to do all the work associated with building interfaces that makes the API call. On the other hand a **backend developer** is the person who does all the work associated with developing the APIs that takes the call, interacts with other parts of the system and returns the data to the frontend.

A **Full Stack Developer** is the person who can work on both frontend and backend.

## Why hire a Full Stack Developer?

When you hire a different frontend and backend developer, your team size must be 3 or more. You always need a 3rd person who will bridge the gap between frontend and backend.

But if your project is small or it is a maintenance project you do not have a budget for hiring 3 separate people you need a full stack developer. The pros of hiring a full stack developer are

1. It is a cost effective for a small project
2. You have to interact with one person only
3. One person who has full picture of the whole system - so easy to fix issue

However cons are there too. A fullstack developer may not be efficient as a stack specific developer.

## Popular Tools & Technologies

There are two popular options

### Option 1 - PHP Stack

1. ReactJS
2. React Native for Mobile

3. PHP frameworks (Phalcon, Laravel or Yii)
4. PGSQL / MongoDB

### Option 2 (MERN Stack )

1. ReactJS / React Native for Mobile
2. Node.js
3. Express
4. MongoDB

## How will a Full Stack Developer help you?

1. Discuss with with product owner and finalise the functional requirements at story level
2. Provide technical solutions - Analyse further and convert the story into proposed software units: use cases, interfaces and interface items, database entities, internal data flow.
3. Finalise the nonfunctional requirements with product owner and test analyst
4. Finalise the TDD points (coding logics as test case units) associated to every objects (interfaces, interface items, fields, actions etc)
5. Finalise the database and code plan
6. Coding, debugging & unit testing to develop the backend of your web application as defined. Mainly the APIs to be used by the front end developers
7. Coding, debugging & unit testing to develop the frontend of your web application as defined.
8. Functional and nonfunctional testing as per test cases
9. Do the performance testing and other non functional testing as defined in test cases
10. Delivering to product owner and/or to test team
11. Help product owner to do the acceptance testing
12. Fixing reported defects in any part of the application
13. Reporting as required

## Skill & experiences of a Full Stack Developer

1. Intelligent, analytical and logically strong
2. B. Tech or MCA or equivalent qualification
3. Good communication skill over email and skype
4. Organised & have good documenting skill
5. 5-9 years experience in web development
6. Strong in relevant backend technologies (PHP frameworks or MERN Stack)
7. Command over relevant frontend skillset: React along with HTML/CSS/Javascript
8. Good command over database & SQL

## Cost of hiring a Full Stack Developer

Dedicated hiring starts at \$1200 only. Hourly rates start with \$10 only. However cost is likely to change with experience, skillset and past track record

## Tips for hiring a Full Stack Developer

You can hire dedicated, part dedicated or usage based. However we suggest dedicated if your budget allows because the same developer is likely to work for years. He will be just like your own employee.

## Why hire a Full Stack Developer from India?

The single biggest reason is the cost. You can get the same project done at much lower price in India.

## Why hire from Remote Programmer?

- **Web Development since 1999**

We are in web development since 1999. In 2004 we developed a PHP MVC framework. Worked on almost all popular web technologies. We implemented many innovative ideas to maximize the client's revenue.

- **Reliable - In-house with no Newbies**

We have a dedicated in-house team of 30+ developers. 80% of them are 6+ years experience. 6 of them are 14+ years of experience. Only experienced developers and experts will work on your projects.

- **Complete Solution - Concept to Cash**

We have six 15+ years of experienced experts who will help to add value at different points of the software development life cycle. Execution will be done by experienced developers and technology experts.

- **Built-in-Quality through Lean Practices**

You can't turn a MI phone into an iPhone, once it is built. Because adding qualities as in iPhone requires to be built-in. We have quality checks on every step of the value stream starting right from the code editor.

- **Expertise in Latest Technologies**

We are currently focused on the latest tools, technologies, programming languages, frameworks and microservices architectures for developing web, cloud, desktop and mobile apps.

- ## Use of Worldclass Agile Tools

Only programming technologies do not help. We set up our development pipelines with DevOps tools like Jira, GIT, Dockers, Kubernetes and automated testing tools to deliver world-class quality in minimum time.

- ## Super Service at India Price

With the help of experienced and trained resources, 21 years of software development experience, hard work and professional honesty, we provide super service. And still at India Price, as we manage everything from India.

- ## History of Serving in the Long Term

We provide future support. Even if you come back with a small change. **Clients stay with for years.** And in fact employees too. The main reason behind this is we really care about our clients and employees.