

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?

- We add Lean & DevOps values to your application

Toyota became world leader in car manufacturing by practicing Lean. Leading businesses today do DevOps (the successor of Lean) automation to minimize the waste. We too can help you in this regard.

- TDD checklists to ensure Built-in-Quality

Quality not defined is quality denied. There are some core qualities those must be introduced in the design phase, can never be added after QC process. We add these built-in-quality through TDD checkpoints.

- Agile platform covering both product and project life cycle

Most of the project management software takes care of the project life cycle only. Our project cum product management system automates the CMMI processes in agile perspective throughout the product life cycle (PLC).

- Integrated Requirement Management System

Our system includes a built in agile requirement development and management system. It helps both you and the developer to extract the software requirements easily in the format that a developer actually needs.

- Integrated Change Management System

Change is a must to stay in business. A change can be a bug, an missed out requirement, an improvement or simply a new addition. To report, manage and document a change is important. Our system process takes care of it.

- **Integrated Test Management Platform**

Without a proper testing (verification and validation), there is a little chance that all the functional and non functional requirements will be there in the delivery. We have a built-in system and process to take care of it.

- **System Documentation in the background**

Project execution is one time job, but the delivered product requires future maintenance. It can be too painful if the system logics, flow diagrams, use cases, changes are not documented. We do it in the background.

- **No unpleasant surprises - Estimate Change History**

The fact is, most software projects run in late. There can be many reasons but only one solution. Know the reasons at earliest and act accordingly. We provide anytime estimate change report to act before it surprises you.

- **Full team support lead by 15+ years exp experts**

We have several 15+ years experienced experts who guide the developers in defining the product, processes and design the architecture as required. You get the standards set by the experts but implemented by developers.

- **Defined quality delivery at low India price**

This has been possible because of the availability of high quality skills at India price together with agile practices, process automation, integrated test management with TDD checklists, 5S verification and finally ethical practices.

- **Web Development since 1999**

We are on web since 1999. In 2004, we developed our own MVC framework in PHP. We work with stable frameworks like Yii/Laravel/Phalcon (PHP), d-jango (Python), Express/Node.js and React.js / React Native (Javascript).

- **Future Support Ensured - by default**

We provide future support. Even if you come back with a small change. **Client stay with for years.** Most of our clients are with us for more than 5 years. The main reason we would like to grow with our clients.