What is Cloud Application?

A cloud application is an evolved web application. It's also used to access online services over the internet like web applications but not it is not always dependent on web browsers to work.

Cloud apps are usually characterized by advanced features such as:

1. Data is stored in a cloud / cloud-like infrastructure
2. Data can be cached locally for full-offline mode
3. Can be used from a web browser and/or custom-built apps- mobile, desktops, or other
4. Can be used to access services like on-demand computing cycle, storage, application development platforms

Cloud Application Development with LEAN values

A value is something that adds benefit to its final users. The LEAN processes brought a revolution in the manufacturing industry, mainly practiced by Japanese companies like Toyota. They simply maximized the value. DevOps is just the successor of LEAN in the software industry. We follow LEAN, DevOps, and 5S principles and practice accordingly. Here are some principle that we will take care

1. Defining Value & Proper requirement development and management, identify the top 20% features that provide 80% values
2. Identifying value stream - Identifying the associated processes that provide maximum values
3. Creating Flow - Creating effective flow (left to right) by implementing the right system thinking. Eliminate waste - by eliminating clutter, extra processes, 5S practices, etc.
4. Feedback - Establishing a proper feedback system (right to left) from clients to improve product values - through telemetry or other feedback systems
5. Perfection - Identify values from the user's feedbacks and reach perfection through continual learning, experimentation, and improvement.

When to move to a Cloud Application?

You need to think of a cloud app when

1. You do not want to keep the web browser as the only access point for your web application
2. Size of data, load, and security is critical, and dedicated web servers are not enough
3. When you would like to control all aspects of your business through the central app

Technology Options for developing a Cloud Application

1. **PHP with React -** You can choose the PHP framework of your choice - Phalcon, Laravel, Yii, Codeigniter, Drupal, etc; Database MongoDB or PgSQL or MySQL. React Native for Android and iOS development. ElectronJS **-** For lightweight Desktop application development
2. **Node.js with React -** The full stack contains - MongoDB as the database, Node.js/Express for

backend development, ReactJS for front-end web interfaces, and React Native for Android and iOS development. ElectronJS **-** For lightweight Desktop application development

Resources required for developing a Cloud Application?

You need a team of experts to develop large professional web applications. You should hire resources such that the following roles are played well as applicable.

1. **Product Owner**
2. **Graphics Designer**
3. **Web Developer**
4. Mobile App Developer
5. Desktop Application Developer
6. **Cloud Architect**
7. **Scrum Master**
8. Test Analyst
9. Tester
10. Database Administrator
11. Server Administrator
12. Data Entry Operator

One person can play multiple roles. For professional cloud application development, at minimum, you need a product owner, a scrum master, a team of developers, a test analyst, a QC tester, a load/security tester, a cloud architect, and a designer.

Billing Options

1. Hire a team with one more dedicated developer on a monthly billing basis
2. Hire on a fixed cost project basis
3. Part dedicated basis

If the project is to be done on an agile basis you should hire a team to have the freedom to change the requirement based on the feedback.

How much does it cost?

The cost of course depends on the size and complexity of the project. If fixed cost we will love to give a proposal. We will give a cost for a fixed set of requirements. For monthly billing options, we will charge on the basis of monthly dedicated / hourly rates as applicable. Our cost is almost half in comparison to other companies in India, provided you take the quality into consideration.

Hiring Tips

Preferably, you should hire the developers on a dedicated basis. The rest can be shared resources or dedicated depending on the complexity and size of the project. For a bigger project, a full dedicated team is suggested.