Web Applications

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What is a web application?

Wikipedia says:

A **web application** or **web app** is any **application** software that runs in a **web** browser and is created in a browser-supported programming language (javascript, html, css, ...)

any website that does

ANYTHING

EVEN JUST LOOK NICE

But sometimes times not



Small In Size

Easier to update

Can be made platform independent

....mostly

...usually

Origins



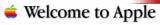
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Thick Client

Preorder Mac OS 8 Be the First to Know

Learn about new Macintosh software releases the moment they become available. Check Hot Mac Products to hear about programs like Speed Demon, ReBirth RB-338 and QuickCRC.

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OS 8, described by Macworld

as "the most comprehensive

look, a speedier Finder, more

update to the Mac OS in

shortcuts and integrated

Internet functions."

years, sporting a bold new

month's Apple Registration Sweepstakes.

Big Help for Small Biz Find out what you need to make your small business a success. Apple Small Business has information about everything from great deals on leasing to dealing with the SBA.

eMate Special

Parents of school-age children have a limited-time special opportunity to purchase Apple's exciting eMate 300 mobile computer at promotional prices.

Newton Connects

Newton, Inc., will enhance network connectivity for Newton-based devices this fall via Newton Internet Enabler 2.0. Ethernet capability can connect devices to Local Area Networks.

Welcome to Mars

See alien terrain in QuickTime VR movies from Sojourner, the brave six-wheeler that covers the Red Planet for NASAs Pathfinder mission.

Boston Mac Party

Join the fun at Macworld Expo/Boston, the summer's biggest bash for the Macintosh community

Troubling updates

Static documents

Client-side logic

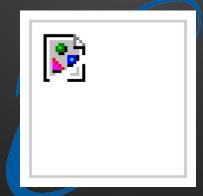
Javascript 1995



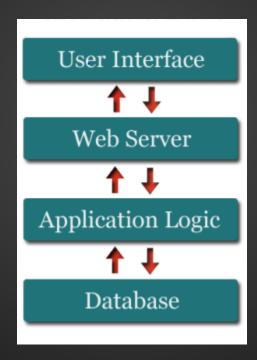


Flash 1996

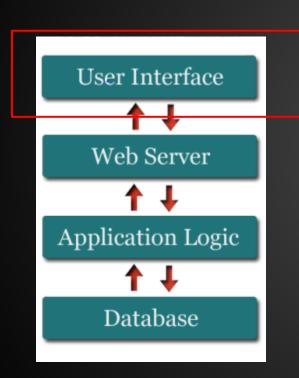
XMLHttpRequest 1999



Web Layers

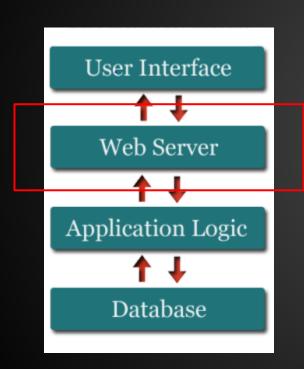


User Interface



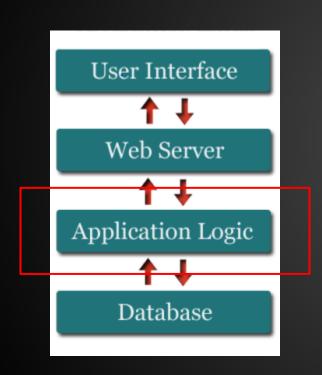
- Level at which user interacts with the web application.
- HTML, CSS, Javascript/jQuery, AJAX, Json

Web Server



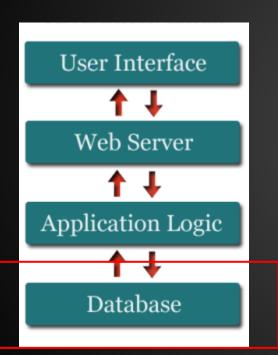
- Primary function is to store, process and deliver web pages to client.
- Apache HTTP Server,
 Apache Tomcat, Microsoft
 IIS

Application Logic



- Coordinates the application, processes the commands and the data entered by the user. Also takes information from database to send to user.
- Could be written in Java,
 C#, PHP, Javascript,
 Coldfusion.

Database



- Layer where persistent information is stored in a database.
- SQL Server, mySQL,
 Oracle, MongoDB (NoSQL).

Why use Agile?

- You are able to make sure that everything looks the way that you want it.
- You get a working page as soon as possible.
- Able to get quick feedback on the website, and are able to make changes easily.

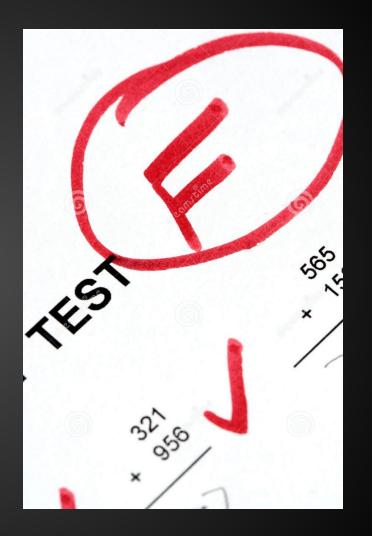
Extreme Programming

- Allows for more frequent releases
- More user input, which leads to better releases



Test Driven Development

- Good for apps that are used by many users
- Provokes code that is simple and easy to maintain



Why not Waterfall?

You are not able to always see what your webpage

looks like, so you cannot make minor tweaks.

- Slower.
- Very little feedback during development.

