Introduction to Backend.

Internet Basics:

O wil query is submitted to your ISP, within ISP, the Drus takes the Domain have and turns it into an ip address.

2) A request is sent to the desired IP address via HTTP, and the request finals

the fastest path to the server with the specified IP.

3. The requested server figures out exactly what we are asking for , and the server builds us the right content, often pulling information from database The server responds with any combination of HTML, CSS, and Jura Serypt.

Static Vs Dynamic Website Design

O Static site is one usually written in plain HTML/ess/JavaScript and what is in the cooke of the page is what is displayed to the user.

Dynamic site is one that is written using a server-side scripting language such as php, Asp, Jsp, or adofusion. The site content is called in by the correction language from other files or from a database depending on actions taken I Ith was on actions taken by the user.

Agrantosts/Disagrantonts:

static sites: Advantages: flexibility: each page can be designed differently.

Dyronic sites:

Disability is a big issue; have to construct each

Advantages: buell-organises and structured way to execute pages by

Connecting to database.

@ updata the content is cheap by executing a content management system with connecting to a database.

Disadvantages: othe design is more fixed than a static site.

3 Cost of building a algranic web pages is much higher then static website.

Command Line. make a new file: touch newfile. txt make a follow: whater ls, ed, rm, to delete a folder: m - of folder Node IS (Java Script for box kend). To run a file in nade: made file. is NPM: the package manager for Javascrypt. Installing and using packages: O. npm install package name 11 install the pockage at first (2). require ("package-name"); 1/=) return the function from the package To find more useful packages, go to NPM website. Introduction to Express (web-framework for Node.js) Difference between Frameworks and library: inversion of control. i.e: when you call a library, you are in control.

But with a framework, all the control flow is aloneady in the framework, and there's just a bunch of predefined white spots that you can fell out with your case.

But with a framework, and the control flow is almosdy in the framework, and there's just a bunch of predefined white spots that you can fill out with your code.

Install: npm install express (some) some the parkage as dependencies then: var express = require (express);

var app = express ();

Routing methods of Express: (How to respond to client requests). A route method is derived from one of the HTTP methods, and is attached to an instance of the express class. methods: get, post, put, head, delete, options, ..., etc. app. get ('labout', function (veg, ves) } res. send ("data"); app. listen (process. env. PORT, process. env. IP); The package json file: Use " mpm init" to create a new package joon file. " name " and " version" are the two most important things in package. 5 son file Changes to the package should also come along with changes to the version. " la potern Route parameters: O Route paths can be strings, string patterns or regular expressions.
?: 0 or 1 occurrence of the preceding element. *: any expression t: 1 or more occurrences of the preceding elements.
(): groups elements tygether.

In cloud, an easy way to open a fale: of file, name EJS: a simple templating language that lets you generate HTML markup with Plain Java Script. Thelps to build dynamic html. install ETS: npm install ejs Then we can send ejs tile using: vender(". ejs); template variable. In ejs, you can define any templates using tag = 1.%, then we can pass the value of templates using render ("file.ejs", Ftemp: well) ETS Control flow: Useful togs: = % > : scriptlet tag, for control flow, no output.
= % > : output the value into the template (HTIML escaped) <2.# ">2> : comment tag, no execution, no output.
<2- %>: output the unescaped value into the template. 1.e: 2 if war === "hello") ? 22 } add <2 2> at each line. To add style in ejs file, using: 2 style> 2/style> in ejs or we use link: < link rel="stylesheet" href= "app.css"> To load/use a direction, use: app, use (express, static ("folder name");
To avoid type ejs postfix euch time, we can use:
""" "then all gets files don' In order to read HTTP post data, we have to use "body-parser", which is a piece of express middlewave that reads a form's irrput and stores H as a Javascript object accessible, through reg. body. Non install body-parser - some.