

C:\Users\javatpoint1\Desktop>node punycode\_example3.js

C:\Users\javatpoint1\Desktop>\_

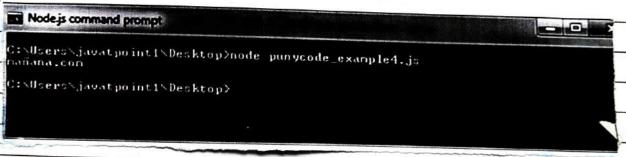
# Punycode toUnicode (domain)

It is used to convert a punycode string representing a domain name to Unicode. Only the Punycoded part of the domain name is converted.

File: punycode example4.js

punycode = require ('punycode');

Console log (punycode to Unicode ('xn-magna-pta.com'))



### Node is TTY

The Node is TTY module contains tty-ReadStream and tty. WriteStream classes. In most cases, there is no need to use this module directly.

you have to use require ('tty') to access this module

# Vartty = require ('tty')

When Node is discovers that it is being run inside a TTY context, than:

process stdin Will be a tty ReadStream instance.

process stdout will be a tty Write Stream Instance.

To check that if Nodejs is running in a TTY Context, use the following command:



C:\Users\javatpuint!\Desktop\nude -p -e "Boolean(process.stdout.isIIY)"

G:\Users\javatpuint!\Desktop\

# Class: ReadStream

It contains a net socket subclass that represent the readable portion of a tty. In normal circums tances, the tty. ReadStream has the only instance named process stain in any Nodejs program (Only When isatty (O) is true).

# rs. is Raw:

It is a Boolean that it initialized to false It specific the current "raw" state of the tty. Readstream Instance.

# rs. Set Raw Mode (mode)

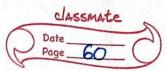
It is should be true or false. It is used to set the properties of the tty. ReadStream to act either as a raw device or defalut, is raw will be set to the resulting mode.

#### Class: WriteStream

It contains a het. socket subclass that represents the Writable portion of a tty. In hormal circumstances, the tty. Writestream has the only instance named process stdout it any Node is program (only when isatty(1) is true).

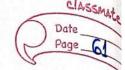
Resize event: This event is used to

Resize event: This event is used When either of the Columns or rows properties has changed.



Process stdout on (resize; 0 => { Console log ('screen size has changed!'); Console log ('\$ & process, stdout, columns 3 x & & process. Stdout, rows 3'); 3); Ws. columns: It is used to give the number of columns the TTY currently has. This property gets updated on 'resize' WS. roms: It is used to give the number of rows the TTY currently has. This property gets updated on 'resize' events Node is TTY Example File: tty.is Yartty = require ('tty'); process. Stdin, Set Raw Mode (true); process Stdin resume(); Console.log('I am leaving now'); process stdin on ('keypress; function (char, key) { If (key & & key. ctrl & & key. name == 'c') { process. exit() 3) 

Node is command prompt - node tty is Your environment has been set up for using Node.js 4.4.2 (x64) and upn. DisUsers \javatpoint12cd desktop G:\Users\javatpoint1\Desktop>node tty.js I an leaving nov



# Node is Web Module

Inhat is Neb Server

Web Server is a software program that handles HTTTP request sent by HTTP clients like Web browsers, and returns web pages in response to the clients. Web servers usually respond with h documents along With images, style sheets an Scripts.

Web Application Architecture

A Web application can be devided in 4 layers:

Client Layer:

The client layer contains Web browsers, mobile browsers or applications Which can make HTTP request to the Webserver.

· Server Layer:

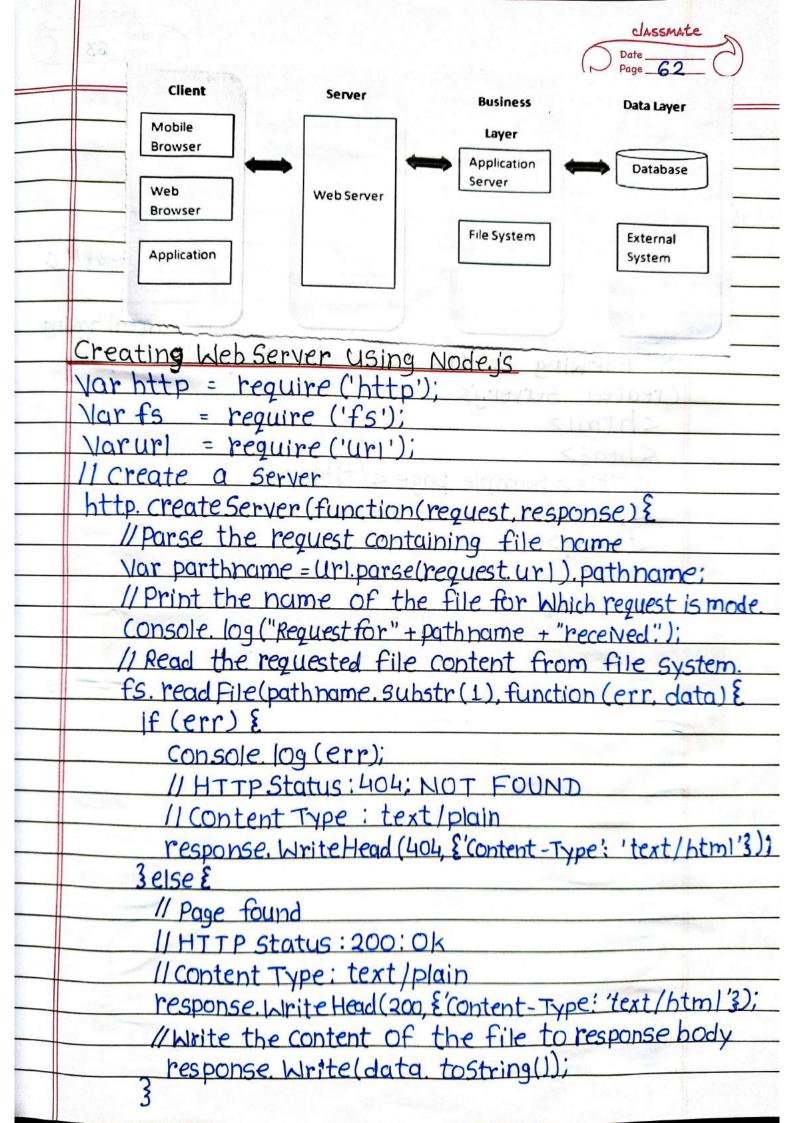
The server layer contains web server which can inter cepts the request made by clients and pass then the response.

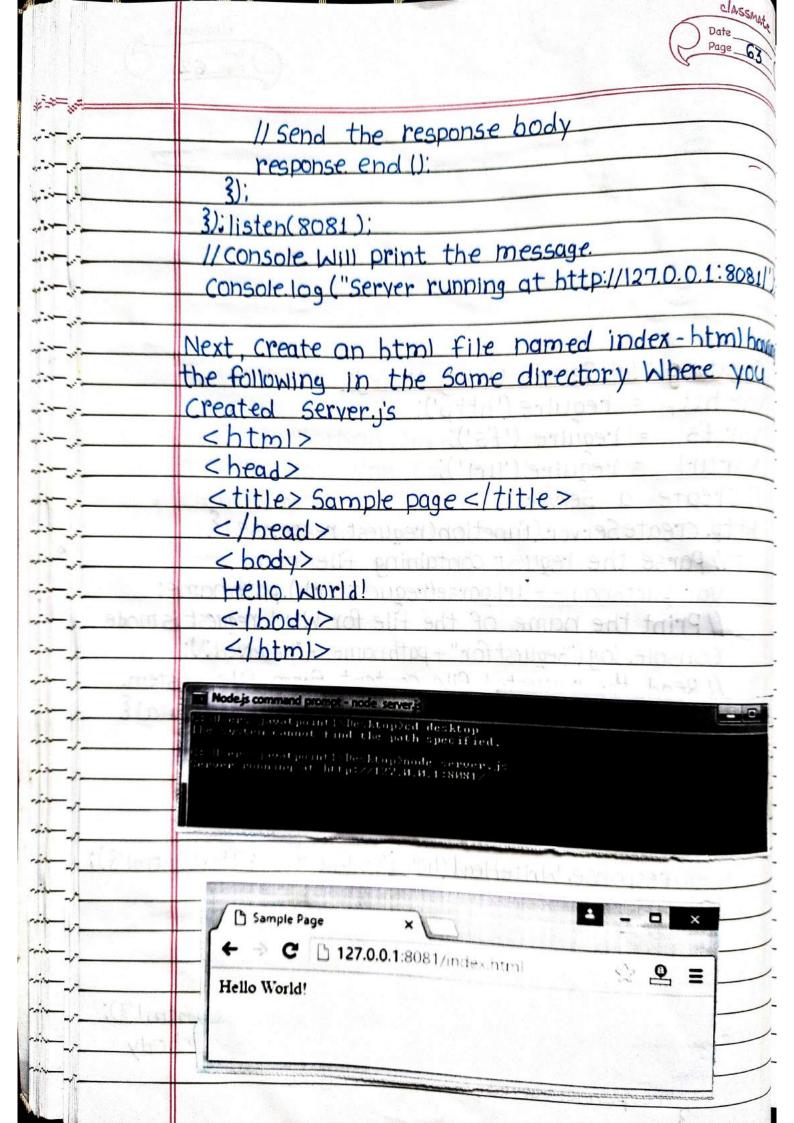
Business Layer:

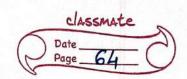
The Business layer contains application server Which is Utilized by Web Server to do required processing. This layer Interacts With data layer Via data base or some external programs.

. Data Layer:

The data layer contains database or any sound of data







# Node. 15 Greate Connection With

#### Create Connection

Create a folder named "DB example" In that folder Create a js file named "Connection is" having the following code:

Var mysgl = require ('mysgl');

Var con = mysal. create Connection (E host: "localhost"

User: "root"

password: "12345"

con. connect (function (err) { if (err) throw err;

Console.log ("Connected!")

root@aspire-pc:/home/user/Desktop/DBexample root@aspire-pc:/home/user/Desktop/DBexample# node connection.js Connected!

## Node is MySal Create Database

CREATE DATABASE Statement is used to create a database in My Sal

Example

For creating a database named "javatpoint".

Create a is file named Java tpoint is having the following data in DBexample folder.

Yar mysgl = require ('my sgl');

Var Con = mysql. Create Connection (E host: "localhost"



user: "root" password: "12345" Con. connect (function (err) & if (err) throw err: Console. log ("Connected!"); Con.query ("CREATE DATABASE javat point", function (err. result) & if (err) throw err; Console. log ("Connected!") Con. query log ("Datcibase created");

#### root@aspire-pc:/home/user/Desktop/MongoDatabase

root@aspire-pc:/home/user# cd Desktop root@aspire-pc:/home/user/Desktop# cd MongoDatabase root@aspire-pc:/home/user/Desktop/MongoDatabase# node createdatabase.js

Database created!

root@aspire-pc:/home/user/Desktop/MongoDatabase#

Create Table

Create a table command is used must make it sure that you define When you create the database the name of the Connection

Example

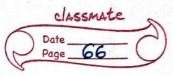
For creating a table named "employees".

create as file named employee is having the DBexample folder following

= require ('mysg1') Var mysq

var con = mysql. Create Connection

host: "localhost"



User: "root" password: "12345." data base: "javatpoint" con.connect(function(err) { if (err) throw err; console. log ("Connected!"); Var SQI = "CREATE TABLE employees (id INT, name VARCHAR (255) ageINT(3), city VARCHAR (255))"; Con. query (591, function (err, result) { if (err) throw err; Console 109 ("Table created"); 3); root@aspire-pc:/home/user/Desktop/DBexample root@aspire-pc:/home/user/Desktop# cd DBexample root@aspire-pc:/home/user/Desktop/DBexample# node employees.js Connected! Table created Create Table Having a Primary Create Primary key in new tables et's create a new table named "employee2" having idas file named employees is having the following data in DB example folder. Var mysgl = require ('mysgl'); Var Con = my sql. create connection (E host: "localhost" user: "ront" Password: "12345"

data base: "java t point"



Con. Connect (function (err) & if (err) throw err;

Console.log ("Connected!"):

Var Sq1 = "CREATE TABLE employee 2 (id INT PRIMA KEY, name VARCHAR (255), age INT(3), city VAR Con. query (Sq1, function (err, result) & if (err) throw err;

Console.log ("Table Created");

3);

3);

noot@aspire-pc:/home/user/Desktop/DBexample
root@aspire-pc:/home/user/Desktop/DBexample# node employee2.js
Connected!
Table created

Acid Columns in existing Table:

ALTER TABLE Statement is used to add a column in an existing table. Take the already created table "employee2" and use a new column Salary. Replace the data of the "employee2" table with the following data:

Var mysql = require ("mysql");

Nar (oh = mysql (reate(onnection ( E host: "localhost";

user: "root"

Password: "12345",

database: "java t point"

3);

Con. (connect (function (err) E host: "localhost";

console. log ("Connected!");