Ex. No: 1

DATE:

AIM

To write a node.js program to get files or directories in JSON format.

PROCEDURE

STEP 1: Read the JSON file and define new user

STEP 2: Add new data to users object

STEP 3: Write the data to a file

STEP 4: Check for errors, if found print the error message else print 'success'.

Ex.No: 2
DATE:

AIM

To write a node.js program to get a local IP address.

PROCEDURE

STEP 1: Import OS module

STEP 2: Invoke networkinterfaces()object

STEP 3: Use family() method to locate the 'IPV4'.

STEP 4: Use address() method to obtain the address.

STEP 5: Display the address

Ex.No: 3

DATE:

AIM

To write a node.js program to check request header for cookies.

PROCEDURE

STEP 1: Import http and url modules

STEP 2: Set up a connection using create server

STEP 3: Request.headers.cookie is used to obtain the cookie.

STEP 4: Set an expiry date and send the response using response.setHeader.

STEP 5: Display the cookie data.

Ex.No: 4

DATE:

AIM

To build a simple CRUD node.js app with MySql database.

PROCEDURE

STEP 1: Import 'express' and 'mysql' modules

STEP 2: Create a mysql connection

STEP 3: Create a 'node mysql' database.

STEP 4: Create a table 'employee' with 'id', 'name', 'designation' fields.

STEP 5: Insert values into the table.

STEP 6: Update the name in the record with a specific id value.

STEP 7: Delete the record with a specific id value.

Ex.no-5

Aim:

To build a Simple CRUD Node.Js app with NoSQL Database connectivity.

Procedure:

1. Install and import mongoose, express and bodyparser packages using "require" method.
2. Create an Object of express with reference 'app'.
3. Establish a database Connection with mongodb Server using mongoose.connect()
4. Add bodyparser to the app to parse JSON data.
5. Build a model with mongoose.Schema() and mongoose.model() function of mongoose library.
6. Configure router to handle the routes for the respective http method.
7. use model.find() to query data, .save() to create .findByIdAndUpdate() to update a record and .remove() to delete.

Ex.No: 6

DATE:

AIM

To create a CSS module to display the image avatar for each user, when they post a comment, in the given format.

PROCEDURE

STEP 1: Create a CSS class named 'avatar'.

STEP 2: Set the width and height to 150 px.

STEP 3: Set border radius to 100%.

STEP 4: Set border to 2px solid grey.

STEP 5: In the HTML document, add the image using 'img' tag.

Ex.No: 7

DATE:

AIM

To create a student record in the MySQL database and design a html page to list the data in a table format with a filtering support.

PROCEDURE

SQL

STEP 1: Create a table 'marks' with the following fields,
fname, lname, DOB, branch, score, regno.

STEP 2: Insert values into the table.

PHP

STEP 1: Establish a connection with SQL table

STEP 2: Fetch mark from each record

STEP 3: Display the data in JSON format

HTML

STEP 1: Import angular.js using script tag.

STEP 2: Display the table 'student' using 'table' tags.

STEP 3: Using angular module, establish a connection to php file.

Ex-no: 8

Aim:

To Design a System with the following sequirements

a) PHP form to login|Signup

b) Set up cookies & Sessions

c) Set the email in redis whenver a User logs in

d) nodejs Script to pull redis email and console log it

e) node Js Script to Send an email with default Content

Procedure:

PHP (login|Signup)

1. Create login php file

2. Establish a Connection to redis and mysql using Connect() of redis and mysqli_connect()

3. Create an html form with fields email and password and method Set to post.

4. Compare the user entered data with data in database if it maches. Set the email in redis database.

5. Create register php file

6. Establish a Connection to mysql database using mysqli_connect()

7. Create an html form with fields name, email, Password, phone and with method set to post.

8. Pass the form data to database on submission of form, set the cookies and redirect to homepage.

Node.js script:

1. Install and import redis, nodemailer packages using "require"

2. Create Client Connection to redis by using redis.createConnection()

3. get email from redis using client.get() with Callback function containing email value as argument.

4. create mail transporter object using nodemailer.createTransport() and pass in mail credentials

5. Create mail object with properties from, to, Subject and text

6. Send mail using transporter.SendMail() by passing in the mail object and Callback function to handle error.

Ex.No: 9

DATE:

AIM

To host a login and signup webpage through free hosting providers

PROCEDURE

STEP 1: Create an account on freenom.com

STEP 2: Find a new free domain name that is available.

STEP 3: Get the domain name, set the due period and fill the details to complete the order.

STEP 4: For hosting the website, go to infinity.free.net and create a new account.

STEP 5: Use free sub domain name, view the client order and refresh the page until the account is created.

STEP 6: Go to the control panel and upload the html page and register the php file.

STEP 7: Register the domain with a valid register and configure it to point the DNS server.

STEP 8: Browse the website and use it.

Ex.No: 10

DATE:

AIM

To develop a simple calculator using Andriod, which takes two numbers and applies addition, subtraction, multiplication and division operations to them and displays the result as a Complete expression.

PROCEDURE

STEP 1: Go to http://developer.android.com/sdk/index.html to download android studio

STEP 2: Use the installer to install android studio following its instruction

STEP 3: Open android studio.

STEP 4: Under the quick start menu, select Start -> new android studio project.

STEP 5: Click format to open the project

STEP 6: Set AVD manager to run apps and debugging

Ex.No: 11

DATE:

AIM

To develop a simple calculator using ios, which takes two numbers and apply addition, subtraction, multiplication and division operations and to display the result as a complete expression.

PROCEDURE

STEP 1: Download xcode from http://developer.apple.com/xcode/, in mac OS.

STEP 2: Develop the app using xcode

STEP 3: Test the app with ios simulator