- 1. VPS:
  - First,
- 2. vue computed property setters (We did this by making the value of languageLevel an object with two keys, get and set, each with a value of a function). In order to add a setter to a computed property, you must make the value of the computed property an object with get and set properties (like <select v-model="languageLevel"> case)

```
const app = new Vue({
  el: '#app',
  data: {
    hoursStudied: 274
  },
  computed: {
    languageLevel: {
      get: function() {
        if (this.hoursStudied < 100) {
          return 'Beginner';
        } else if (this.hoursStudied < 1000) {
          return 'Intermediate';
        } else {
          return 'Expert';
        }
      },
      set: function(newLanguageLevel) {
        if (newLanguageLevel === 'Beginner') {
          this.hoursStudied = 0;
        } else if (newLanguageLevel === 'Intermediate') {
          this.hoursStudied = 100;
        } else if (newLanguageLevel === 'Expert') {
          this.hoursStudied = 1000;
        }
      }
    }
  }
});
<div id= "app"</pre>
  You have studied for {{ hoursStudied }} hours. You have {{
     languageLevel }}-level mastery.
```

```
<span>Change Level:
<select v-model="languageLevel">
        <option>Beginner</option>
        <option>Intermediate</option>
        <option>Expert</option>
        </pl>

</pdiv>
```

3. vue computed properties

```
const app = new Vue({
 el: '#app',
 data: {
   hoursStudied: 274
 },
 computed: {
   languageLevel: function() {
      if (this.hoursStudied < 100) {
       return 'Beginner';
     } else if (this.hoursStudied < 1000) {
       return 'Intermediate';
     } else {
       return 'Expert';
 }
});
<div id="app">
  You have studied for {{ hoursStudied }} hours. You have {{
  → languageLevel }}-level mastery.
```

4. Chaining multiple promises

```
app.js
const {checkInventory, processPayment, shipOrder} =
    require('./library.js');

const order = {
```

```
items: [['sunglasses', 1], ['bags', 10]],
  giftcardBalance: 79.82
};
checkInventory(order)
.then((resolvedValueArray) => {
  // Write the correct return statement here:
  return processPayment(resolvedValueArray);
})
.then((resolvedValueArray) => {
  // Write the correct return statement here:
 return shipOrder(resolvedValueArray)
})
.then((successMessage) => {
  console.log(successMessage);
})
.catch((errorMessage) => {
  console.log(errorMessage);
});
```

```
library.js
const store = {
  sunglasses: {
    inventory: 817,
    cost: 9.99
  },
 pants: {
    inventory: 236,
    cost: 7.99
  },
  bags: {
    inventory: 17,
    cost: 12.99
  }
};
const checkInventory = (order) => {
 return new Promise ((resolve, reject) => {
   setTimeout(()=> {
   const itemsArr = order.items;
```

```
let inStock = itemsArr.every(item => store[item[0]].inventory >=
   \rightarrow item[1]);
  if (inStock){
    let total = 0;
     itemsArr.forEach(item => {
       total += item[1] * store[item[0]].cost
    });
     console.log(`All of the items are in stock. The total cost of the
     → order is ${total}.`);
    resolve([order, total]);
  } else {
     reject(`The order could not be completed because some items are sold
     → out.`);
  }
}, generateRandomDelay());
});
};
const processPayment = (responseArray) => {
 const order = responseArray[0];
 const total = responseArray[1];
 return new Promise ((resolve, reject) => {
  setTimeout(()=> {
  let hasEnoughMoney = order.giftcardBalance >= total;
  // For simplicity we've omited a lot of functionality
  // If we were making more realistic code, we would want to update the
   → giftcardBalance and the inventory
  if (hasEnoughMoney) {
    console.log(`Payment processed with giftcard. Generating shipping
     → label.`);
     let trackingNum = generateTrackingNumber();
    resolve([order, trackingNum]);
  } else {
    reject(`Cannot process order: giftcard balance was insufficient.`);
  }
}, generateRandomDelay());
});
```

```
const shipOrder = (responseArray) => {
  const order = responseArray[0];
  const trackingNum = responseArray[1];
  return new Promise ((resolve, reject) => {
   setTimeout(()=> {
     resolve(`The order has been shipped. The tracking number is:

    $\{\trackingNum\}.\);

}, generateRandomDelay());
 });
};
// This function generates a random number to serve as a "tracking
→ number" on the shipping label. In real life this wouldn't be a random
  number
function generateTrackingNumber() {
  return Math.floor(Math.random() * 1000000);
}
// This function generates a random number to serve as delay in a
→ setTimeout() since real asynchrnous operations take variable amounts
\rightarrow of time
function generateRandomDelay() {
  return Math.floor(Math.random() * 2000);
}
module.exports = {checkInventory, processPayment, shipOrder};
init(pageNum = 1) {
  window.scrollTo(0, 0)
  const { sortPrice } = this.state
  this.setState({
    loading: true
  }, () => {
    queryTicketList({
      pageNum: pageNum,
      reorder: sortPrice | | '',
      searchInput: '上海',
      cityName: '上海'
```

};

6. often used DOM properties and methods (scrollHeight, offsetHeight, clientHeight, scroll-Top, offsetTop)

```
// 获取纵向滚动条的滚动距离

const y = document.body.scrollTop || document.documentElement.scrollTop

document.body.innerHTML = 'This is the text of the body element';

document.body.firstChild.parentNode.innerHTML = 'I am the parent and my inner HTML has been replaced!';

document.querySelector('h1').innerHTML = 'Most popular TV show searches in 2016'; // returns the first selected element

document.querySelector('#fourth').innerHTML = 'Fourth element';

document.body.style.backgroundColor = '#201F2E';

let liRef = document.createElement('li');

liRef.id = 'oaxaca';

liRef.innerHTML = "Oaxaca, Mexico";

document.getElementById('more-destinations').appendChild(liRef);
```

```
parent.removeChild(child);
```

## 7. webpack.config.js

```
const path = require('path');
const HtmlWebpackPlugin = require('html-webpack-plugin');
// common.js syntax
module.exports = {
  entry: './src/index.js',
  output: {
    path: path.join(__dirname, '/dist'),
    filename: 'index_bundle.js'
  },
  module: {
    rules: [
      {
        test: /.js$/,
        exclude: /node_modules/,
        use: {
          loader: 'babel-loader'
        }, Or
        use: [
          // apply multiple loaders and options
          "htmllint-loader",
          {
            loader: "html-loader",
            options: {
              /* ... */
            }
          }
      }
    ]
  },
  plugins: [
    new HtmlWebpackPlugin({
      template: './src/index.html',
      filename: 'index.html',
```

```
inject: 'body'
})
]
```

## 8. Computed property names

Starting with ECMAScript 2015, the object initializer syntax also supports computed property names. That allows you to put an expression in brackets [], that will be computed and used as the property name.

```
// Computed property names (ES2015)
var i = 0;
var a = {
  ['foo' + ++i]: i,
  ['foo' + ++i]: i,
  ['foo' + ++i]: i
};
console.log(a.foo1); // 1
console.log(a.foo2); // 2
console.log(a.foo3); // 3
var param = 'size';
var config = {
  [param]: 12,
  ['mobile' + param.charAt(0).toUpperCase() + param.slice(1)]: 4
};
console.log(config); // {size: 12, mobileSize: 4}
```

9. A presentational component can often be written as a stateless functional component

```
// A component class written in the usual way:
export class MyComponentClass extends React.Component {
   render() {
     return <h1>Hello world</h1>;
   }
}

// The same component class, written as a stateless functional
     component:
```

```
export const MyComponentClass = () => {
  return <h1>Hello world</h1>;
}

// Works the same either way:
ReactDOM.render(
  <MyComponentClass />,
  document.getElementById('app')
);
```

10. Child Components Update Their Parents' state in React

Parent.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import { Child } from './Child';
class Parent extends React.Component {
  constructor(props) {
    super(props);
    this.changeName = this.changeName.bind(this);
    this.state = { name: 'Frarthur' };
  }
  changeName(newName) {
    this.setState({ name: newName });
  }
  render() {
    return <Child name={this.state.name} onChange={this.changeName} />
  }
}
ReactDOM.render(
  <Parent />,
  document.getElementById('app')
);
```

You cannot declare method changeName(newName) as changeName: function(newName), otherwise won't work. The same goes for render()

```
import React from 'react';
export class Child extends React.Component {
  constructor(props) {
    super(props);
    this.handleChange = this.handleChange.bind(this);
  }
 handleChange(e) {
    const name = e.target.value;
   this.props.onChange(name);
  }
 render() {
    return (
      <div>
        <h1>
          Hey my name is {this.props.name}!
        <select id="great-names" onChange={this.handleChange}>
          <option value="Frarthur">
            Frarthur
          <option value="Gromulus">
            Gromulus
          <option value="Thinkpiece">
            Thinkpiece
            option>
          select>
    );
  }
}
```

```
class HospitalEmployee {
  constructor(name) {
    this. name = name;
    this._remainingVacationDays = 20;
  }
  get name() {
    return this._name;
  }
  get remainingVacationDays() {
    return this._remainingVacationDays;
  }
  takeVacationDays(daysOff) {
    this._remainingVacationDays -= daysOff;
  }
}
class Nurse extends HospitalEmployee {
  constructor(name, certifications) {
    super(name);
    this._certifications = certifications;
  }
  get certifications() {
    return this._certifications;
  }
  addCertification(newCertification) {
    this.certifications.push(newCertification);
  }
}
const nurseOlynyk = new Nurse('Olynyk', ['Trauma', 'Pediatrics']);
nurseOlynyk.takeVacationDays(5);
console.log(nurseOlynyk.remainingVacationDays);
nurseOlynyk.addCertification('Genetics');
```

```
console.log(nurseOlynyk.certifications);
```

12. The major difference between a GET request and POST request is that a POST request requires additional information to be sent through the request. This additional information is sent in the body of the post request.

## 13. async await POST

```
// async await POST
async function getData(){
 try {
   const response = await fetch('http://api-to-call.com/endpoint', { //
    → sends request
     method: 'POST',
     body: JSON.stringify({id: '200'})
   });
   if (response.ok){ // handles response if successful
     const jsonResponse = await response.json();
      // Code to execute with jsonResponse
   }
   throw new Error('Request Failed!');
 } catch (error){ // handles response if unsuccessful
   console.log(error);
 }
```

# 14. async await GET

```
async function getData(){
  try {
    const response = await fetch('http://api-to-call.com/endpoint');
  if (response.ok){ // handles response if successful
    const jsonResponse = await response.json();
    // Code to execute with jsonResponse
  }
  throw new Error('Request Failed!');
} catch (error) { // handles response if unsuccessful
  console.log(error);
```

```
}
}
```

- 15. used fetch() to make GET and POST requests
  - check the status of the responses coming back
  - catch errors that might possibly arise
  - taking successful responses and rendering it on the webpage

## 16. fetch() POST Requests

```
fetch('http://api-to-call.com/endpoint', {
  method: 'POST',
  body: JSON.stringify({id: '200'}) // sends request
}).then(response => {
  if (response.ok){
    return response.json(); // converts response object to JSON
  }
  throw new Error('Request failed!');
}, networkError => console.log(networkError.message) // handles errors
).then(jsonResponse => {
    // Code to execute with jsonResponse // handles success
});
```

# 17. fetch() GET Requests

18. Boilerplate code for making an XHR POST request From codecademy:

19. Boilerplate code for making an XHR GET request From codecademy:

```
// XMLHttpRequest GET

const xhr = new XMLHttpRequest(); // creates new object
const url = 'http://api-to-call.com/endpoint';

// handle responses
xhr.responseType = 'json';
xhr.onreadystatechange = () => {
   if(xhr.readyState === XMLHttpRequest.DONE){
      // Code to execute with response
   }
};

//opens request and sends object
xhr.open('GET', url);
xhr.send();
```

```
var xhttp = new XMLHttpRequest();
xhttp.onreadystatechange = function() {
   if (this.readyState == 4 && this.status == 200) {
        // Typical action to be performed when the document is ready:
        document.getElementById("demo").innerHTML = xhttp.responseText;
   }
};
xhttp.open("GET", "filename", true);
xhttp.send();
```

- 20. With a GET request, we're retrieving, or *getting*, information from some source (usually a website). For a POST request, we're *posting* information to a source that will process the information and send it back
- 21. json example. Data types: Number, String, Boolean, Array, Object, Null

```
"name": "Brad Traversy",
    "age": 35,
    "address": {
        "street": "5 main st",
        "city": "Boston"
    },
    "children": ["Brianna", "Nicholas"]
}
```

22. javascript object example

```
var person = {
  name: "Brad",
  age: 35,
  email: function(){
    return 'brad@gmail.com';
  }
};
console.log(person.name);
console.log(person.email());
```

- 23. Section DOM Template Parsing Caveats covered is is special attribute offers a workaround
- 24. Wrap form widgets inside a p tag

25. Three ways to change elements' visibility

```
display: none; /* completely gone, never existed */
visibility: hidden; /* still occupies space */
opacity: 0; /* still occupies space */
```

26. CSS Margins: You can set the margin property to auto to horizontally center the element within its container. To horizontally center a block element (like  $\langle \text{div} \rangle$ ), use margin: auto; Note: Center aligning has no effect if the width property is not set (or set to 100%).

To horizontally center an image use

```
<img style="display: block; margin: 8px auto 15px auto;"
display: block; 一定要加</pre>
```

- 27. The default font-size is 16px, so 1em equals 16px
- 28. width and height can only be applied to elements that are not inline elements. Some examples of inline and block elements, also see w3schools (块级元素内联元素)

29. <h1> is the most important part of a html doc

30. self-closing tags in HTML5: <br/> <embed> <hr> <iframe> <img> <input> <link> <meta> closing forward slash is optional

## 31. Layout elements

```
<body>
  <header>
    <nav>
    </nav>
  </header>
  <section>
    <main>
      <article>
      </article>
    </main>
    <aside>
    </aside>
  </section>
  <footer>
  </footer>
</body>
```

- 32. In addition to data properties, Vue instances expose a number of useful instance properties and methods. These are prefixed with \$ to differentiate them from user-defined properties
- 33. Out of the box, webpack won't require you to use a configuration file. However, it will assume the entry point of your project is src/index.js and will output the result in dist/main.js minified and optimized for production
- 34. When installing a package that will be bundled into your production bundle, you should use npm install --save. If you're installing a package for development purposes (e.g. a linter, testing libraries, etc.) then you should use npm install --save-dev
- 35. Popular CSS pre-processors including LESS, SASS, Stylus, and PostCSS
- 36. Follow this guide if the built-in configuration of Vue CLI does not suit your needs, or you'd rather create your own webpack config from scratch
- 37. vue-loader is a loader for webpack that allows you to author Vue components in a format called Single-File Components (SFCs)

- 38. http.request() returns an instance of the http.ClientRequest class. The ClientRequest instance is a writable stream. If one needs to upload a file with a POST request, then write to the ClientRequest object.
- 39. With http.request() one must always call req.end() to signify the end of the request even if there is no data being written to the request body
- 40. querystring.parse(str[, sep[, eq[, options]]]) parses a URL query string (str) into a collection of key and value pairs. For example, the query string 'foo=bar&abc=xyz &abc=123' is parsed into:

```
foo: 'bar',
  abc: ['xyz', '123']
}
```

41. querystring.stringify(obj[, sep[, eq[, options]]]) produces a URL query string from a given obj by iterating through the object's "own properties"

```
querystring.stringify({ foo: 'bar', baz: ['qux', 'quux'], corge: '' });
// returns 'foo=bar&baz=qux&baz=quux&corge='
```

42. JSON.stringify(value[, replacer[, space]]) converts a JavaScript value to a JSON string

```
let person = {
  name: "Brad",
  age: 35
};

person = JSON.stringify(person);
// person = JSON.parse(person); // back to an object
console.log(person);
```

- 43. JSON.parse(text[, reviver]) parses a JSON string, constructing the JavaScript value or object described by the string. trailing commas are not allowed, JSON.parse('[1, 2, 3, 4, ]'); will throw an error
- 44. If you access a method without (), it will return the function definition
- 45. JS index position starts at zero!

```
server.js:
```

```
const http = require('http');
http.createServer((request, response) => {
  console.log(request.method);
  console.log(request.url);
 request.on('error', (err) => {
    console.error(err);
   response.statusCode = 400;
    response.end();
  });
 response.on('error', (err) => {
   console.error(err);
  }):
  if(request.method === 'POST' && request.url === '/echo'){
    // let body = [];
   // request.on('data', (chunk) => {
           body.push(chunk);
    // }).on('end', () => {
    // body = Buffer.concat(body).toString();
    // response.writeHead(200, {'Content-Type': 'text/plain'});
    // response.end(body);
   // });
    request.pipe(response);
  }else {
    response.statusCode = 404;
   response.end();
  }
}).listen(8080);
console.log('Server listening on port 8080');
```

## client.js

```
var http = require('http');
var querystring = require('querystring');
var postData = querystring.stringify({
```

```
'msg': 'hello world!'
});
var options = {
 hostname: 'localhost',
 port: 8080,
 method: 'POST',
  headers: {
    'Content-Type': 'application/x-www-form-urlencoded',
    'Content-Length': postData.length
  },
  agent: false,
 path: '/echo'
};
var req = http.request(options, function (res) {// function emitted when
→ a response is received to this request
  //res is of type <a href="http://resage">http://resage</a> and can be used to access
  → response status, headers and data.
  //<http.IncomingMessage> implements Readable Stream interface
  console.log('STATUS: ' + res.statusCode);
  console.log('HEADERS: ' + JSON.stringify(res.headers));
  res.setEncoding('utf8');
  // get data as chunks (stream or buffer)
  res.on('data', function (chunk) {
    console.log('BODY: ' + chunk);
  });
  // end response
 res.on('end', function () {
    console.log('No more data in response.')
  });
});
req.on('error', function (e) {
  // console.log('problem with request: ' + e.message);
  console.error(e.stack);
});
```

[2-5] to  $\text{cite}\{2,3,4,5\}$ 

```
const input = "[2-5]";
var numRangeArr = input.match(/\d/gm);
var len = numRangeArr[1] - numRangeArr[0];
var resArr = [];

for(var i = 0; i <= len; i++){
   var res = Number(numRangeArr[0])+ i;
   resArr[i] = res;
   console.log(resArr);
}

var midRes = resArr.toString();
var result = "\\cite{" + midRes + "}";</pre>
```

Anonymous function:

```
/*let add = function(a,b){
  return a + b;
}
```

```
let multiply = function(a,b){
   return a * b;
}*/

let calc = function(num1, num2, callback){
   return callback(num1, num2);
}

console.log(calc(1, 2, function(a, b){
   return a-b;
}));
```

## Factory pattern:

```
var peopleFactory = function(name, age, state){
 var temp = {};
  //var temp = new Object();
 temp.age = age;
 temp.name = name;
 temp.state = state;
  temp.printPerson = function(){
    console.log(this.name + ", " + this.age + ", " + this.state);
  }
  return temp;
}
var person1 = peopleFactory("john", 23, "CA");
var person2 = peopleFactory("kim", 27, "SC");
person1.printPerson();
person2.printPerson();
```

## Constructor pattern

```
var peopleConstructor = function(name, age, state){
   this.name = name;
```

```
this.age = age;
this.state = state;

this.printPerson = function(){
   console.log(this.name + ", " + this.age + ", " + this.state);
}

var person1 = new peopleConstructor("john", 23, "CA");
var person2 = new peopleConstructor("kim", 27, "SC");

person1.printPerson();
person2.printPerson();
```

#### Prototype pattern

```
var peopleProto = function(){
}
//prototype properties
peopleProto.prototype.age = 0;
peopleProto.prototype.name = "no name";
peopleProto.prototype.city = "no city";
peopleProto.prototype.printPerson = function(){
  console.log(this.name + ", " + this.age + ", " + this.city);
}
var person1 = new peopleProto();
person1.name = "John";
person1.age = 23;
person1.city = "CA";
console.log("name" in person1);
console.log(person1.hasOwnProperty("name"));
person1.printPerson();
```

```
//dynamic prototype pattern
var peopleDynamicProto = function(name, age, state){
  this.age = age;
  this.name = name;
  this.state = state;
  // create function only once
  if(typeof this.printPerson !== "function"){
    peopleDynamicProto.prototype.printPerson = function(){
      console.log(this.name + ", " + this.age + ", " + this.state);
    }
  }
}
var person1 = new peopleDynamicProto("John", 24, "CA");
var person2 = new peopleDynamicProto("Yu", 23, "ZJ");
console.log("name" in person1);
console.log(person1.hasOwnProperty("name"));
person1.printPerson();
person2.printPerson();
```

#### Closure:

```
var addTo = function(passed){
  var add = function(inner){
    return passed + inner;
  }
  return add;
}

var addTwo = addTo(2);
var addThree = addTo(3);

//console.dir(addTwo);
//console.dir(addThree);
```

```
console.log(addTwo(1));
console.log(addThree(1));
```

callback function: A callback is a function that is passed as an argument to another function and is executed after its parent function has completed

```
let x = function(){
  console.log("i am called from inside a function");
}
let y = function(callback){
  console.log("do something");
  callback();
}
```

```
/*let calc = function(num1, num2, calcType){
  if(calcType === "add"){
    return num1 + num2;
 }else if(calcType === "multiply"){
    return num1 * num2;
  7
}
console.log(calc(1, 2, "multiply"));*/
let add = function(a,b){
  return a + b;
}
let multiply = function(a,b){
 return a * b;
}
let doWhatever = function(a,b){
  console.log("Here are the two numbers: ", a + "," + b);
```

```
let calc = function(num1, num2, callback){
  if(typeof callback === "function"){
    return callback(num1, num2);
  }
}
console.log(calc(1, 10, add));
```

```
var myArr = [{
  num: 5,
  str: "apple"
},{
  num: 7,
  str: "cabbage"
},{
  num: 1,
  str: "ban"
}];
//anonymous function
myArr.sort(function(val1, val2){
  if(val1.str < val2.str){</pre>
    return -1;
  }else{
    return 1;
  }
})
console.log(myArr);
```

# promises

```
let promiseToCleanTheRoom = new Promise(function(resolve, reject){
   //cleaning the room
   let isClean = false;

if(isClean){
   resolve("Cleaned up");
```

```
}else{
    reject("not clean");
}

promiseToCleanTheRoom.then(function(fromeResolve){
    console.log("The room is " + fromeResolve);
}).catch(function(fromReject){
    console.log("The room is " + fromReject);
})
```

```
let cleanRoom =function(){
  return new Promise(function(resolve, reject){
    resolve("CLeaned the room ");
  })
}
let removeGarbage = function(message){
  return new Promise(function(resolve, reject){
    resolve(message + "Remove garbage ");
  })
}
let winIcecream = function(message){
  return new Promise(function(resolve, reject){
    resolve(message + "Won icecream");
  })
}
cleanRoom().then(function(result){
  return removeGarbage(result);
}).then(function(result){
  return winIcecream(result);
}).then(function(result){
  console.log("Finished " + result);
})
//do everything in parallel
/*Promise.all([cleanRoom(), removeGarbage(),
→ winIcecream()]).then(function(){
```

```
console.log("All finished");
})*/

//any one of them
/*Promise.race([cleanRoom(), removeGarbage(),
    winIcecream()]).then(function(){
    console.log("One of them is finished");
})*/
```

call, apply and bind

```
var obj = {num:3};
var addToThis = function(a, b, c){
  return this.num + a + b + c;
}

// call
console.log(addToThis.call(obj, 1, 2, 3));

// apply
var arr = [1,2,3]; // only difference from `call'
console.log(addToThis.apply(obj, arr));

// bind
var bound = addToThis.bind(obj);
console.log(bound(1, 2, 3));
```

prototype inheritance

```
var x = function(j){
  this.i = 0;
  this.j = j;

  this.getJ = function(){
    return this.j;
  }
}

x.prototype.getJ = function(){
  return this.j;
}
```

```
// baseclass
var Job = function(){
 this.pays = true;
}
// prototype method
Job.prototype.print = function(){
  console.log(this.pays ? 'Please hire me' : 'no thank you');
}
// subclass
var TechJob = function(title, pays){
  Job.call(this); // inherits properties and methods from Job function
 this.title = title;
 this.pays = pays;
}
TechJob.prototype = Object.create(Job.prototype); // inherits from the
→ prototype of Job
TechJob.prototype.constructor = TechJob; // set a constructor for
→ TechJob
TechJob.prototype.print = function(){
  console.log(this.pays ? this.title + ' job is great, please hire me' :
  → 'I would rather learn Javascript');
}
var softwarePosition = new TechJob('Javascript Programmer', true);
var softwarePosition2 = new TechJob('vb Programmer', false);
```

```
console.log(softwarePosition.print());
console.log(softwarePosition2.print());
```

#### HTML codes

```
<textarea name="text" row="5000" cols="100" id="inputtext"

    style="width:1200px; height:300px; background-color: rgb(204,232,204);

    border: 2px solid Tomato; font-size: 15px"></textarea>
```