

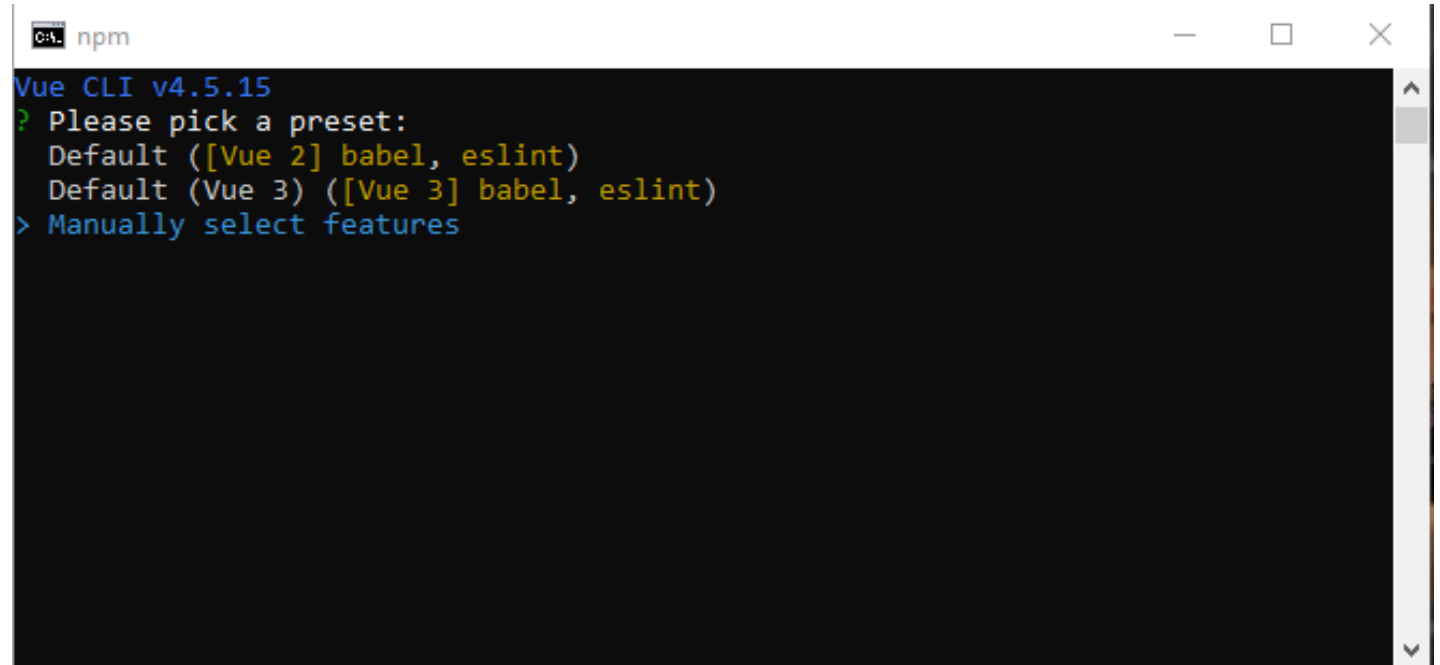
Forms & Inputs

In this Vue 3 tutorial we'll take a closer look at forms & input fields in Vue.js. We'll look at v-model for 2-way data binding, keyboard events & how to react to form submissions.

Open cmd and write next commands:

- vue create web-form

Choose row
'Manually select
features'
and click 'Enter'



```
npm
Vue CLI v4.5.15
? Please pick a preset:
  Default ([Vue 2] babel, eslint)
  Default (Vue 3) ([Vue 3] babel, eslint)
> Manually select features
```

Select
Choose Vue
version
Babel

Click 'Enter'

```
C:\> npm
Vue CLI v4.5.15
? Please pick a preset: Manually select features
? Check the features needed for your project:
> (*) Choose Vue version
  (*) Babel
  ( ) TypeScript
  ( ) Progressive Web App (PWA) Support
  ( ) Router
  ( ) Vuex
  ( ) CSS Pre-processors
  ( ) Linter / Formatter
  ( ) Unit Testing
  ( ) E2E Testing
```

Select 3.x

Click 'Enter'

C:\> npm

Vue CLI v4.5.15

? Please pick a preset: Manually select features

? Check the features needed for your project: Choose Vue version, Babel

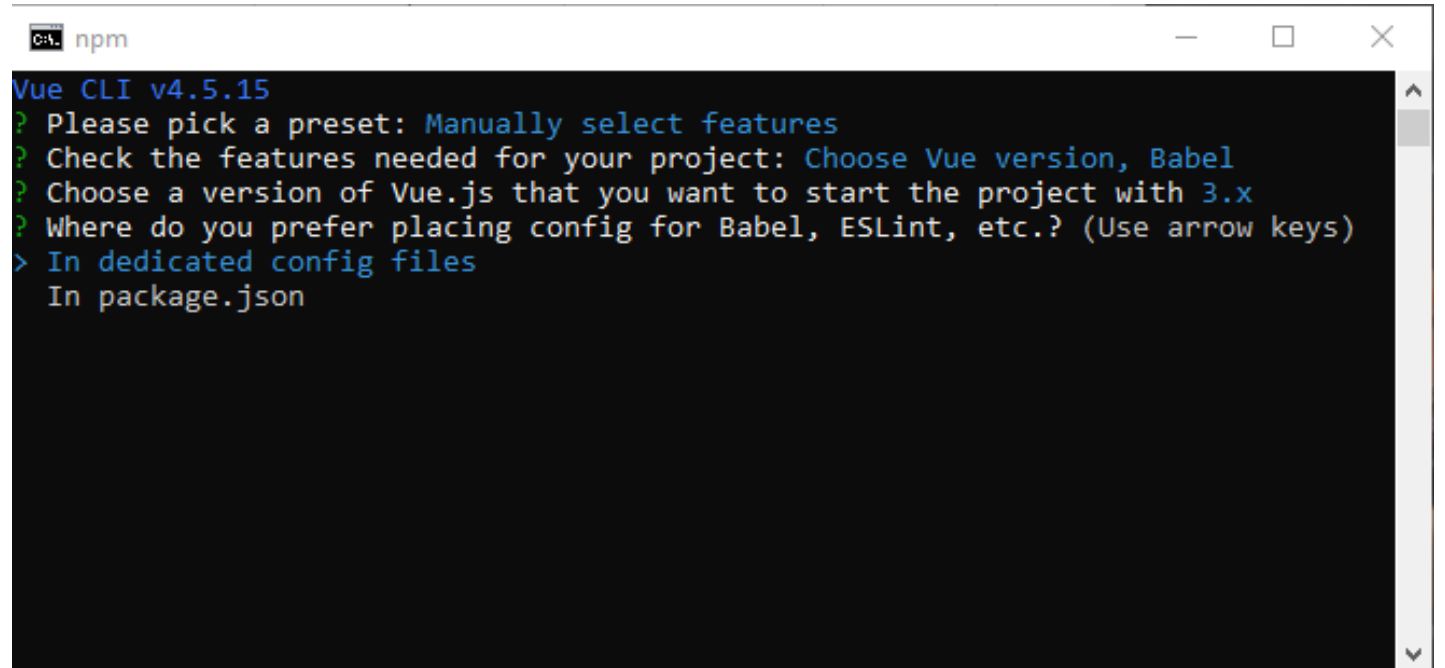
? Choose a version of Vue.js that you want to start the project with

2.x

> 3.x

Select row
'In dedicated
config files'

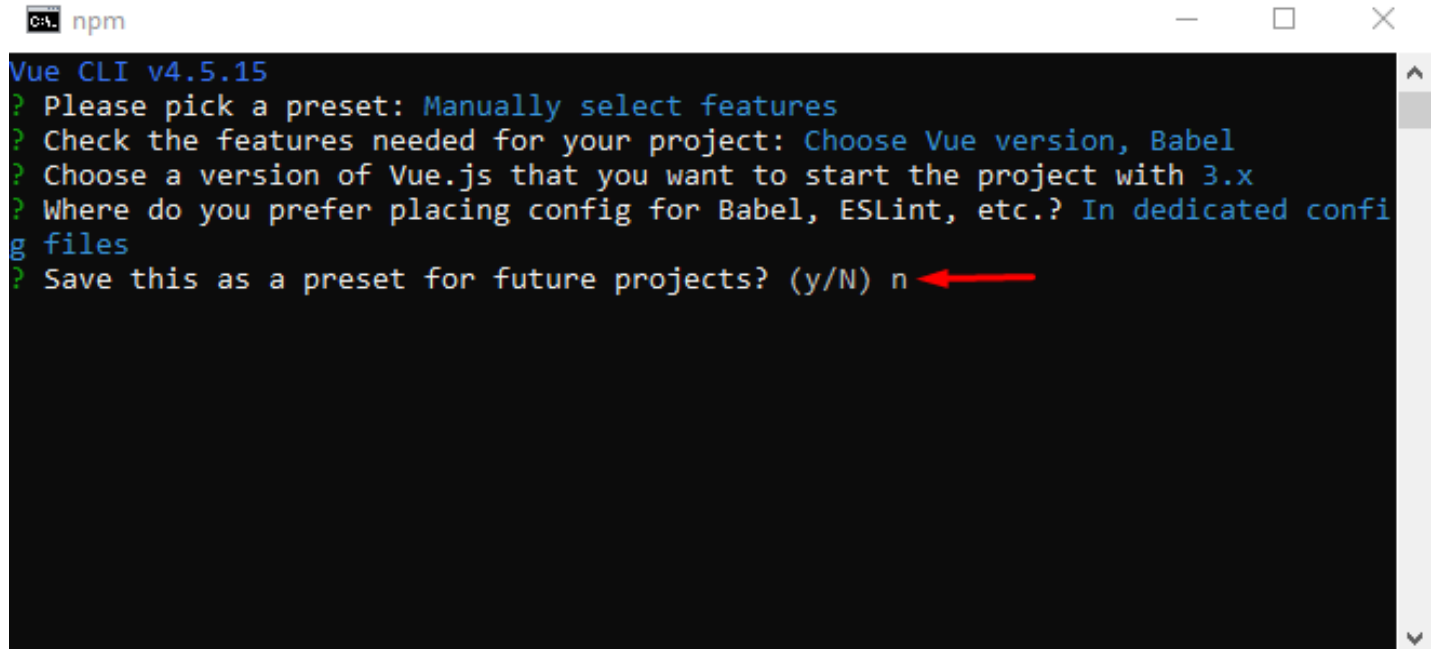
Click 'Enter'



```
npm
Vue CLI v4.5.15
? Please pick a preset: Manually select features
? Check the features needed for your project: Choose Vue version, Babel
? Choose a version of Vue.js that you want to start the project with 3.x
? Where do you prefer placing config for Babel, ESLint, etc.? (Use arrow keys)
> In dedicated config files
  In package.json
```

Write 'n'

Click 'Enter'



```
npm
Vue CLI v4.5.15
? Please pick a preset: Manually select features
? Check the features needed for your project: Choose Vue version, Babel
? Choose a version of Vue.js that you want to start the project with 3.x
? Where do you prefer placing config for Babel, ESLint, etc.? In dedicated config files
? Save this as a preset for future projects? (y/N) n
```

write next commands in cmd:

- cd web-form
- code .

- Delete file HelloWorld.vue from folder 'components'
- Create file SignupForm.vue in the folder 'components'
- Edit file App.vue

App.vue

```
<template>
  <SignupForm />
</template>

<script>
import SignupForm from './components/SignupForm'
export default {
  name: 'App',
  components: { SignupForm }
}
</script>

<style>
#app {
  font-family: Avenir, Helvetica, Arial, sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  text-align: center;
  color: #2c3e50;
  margin-top: 60px;
}
body {
  margin: 0;
  background: #eee;
}
</style>
```

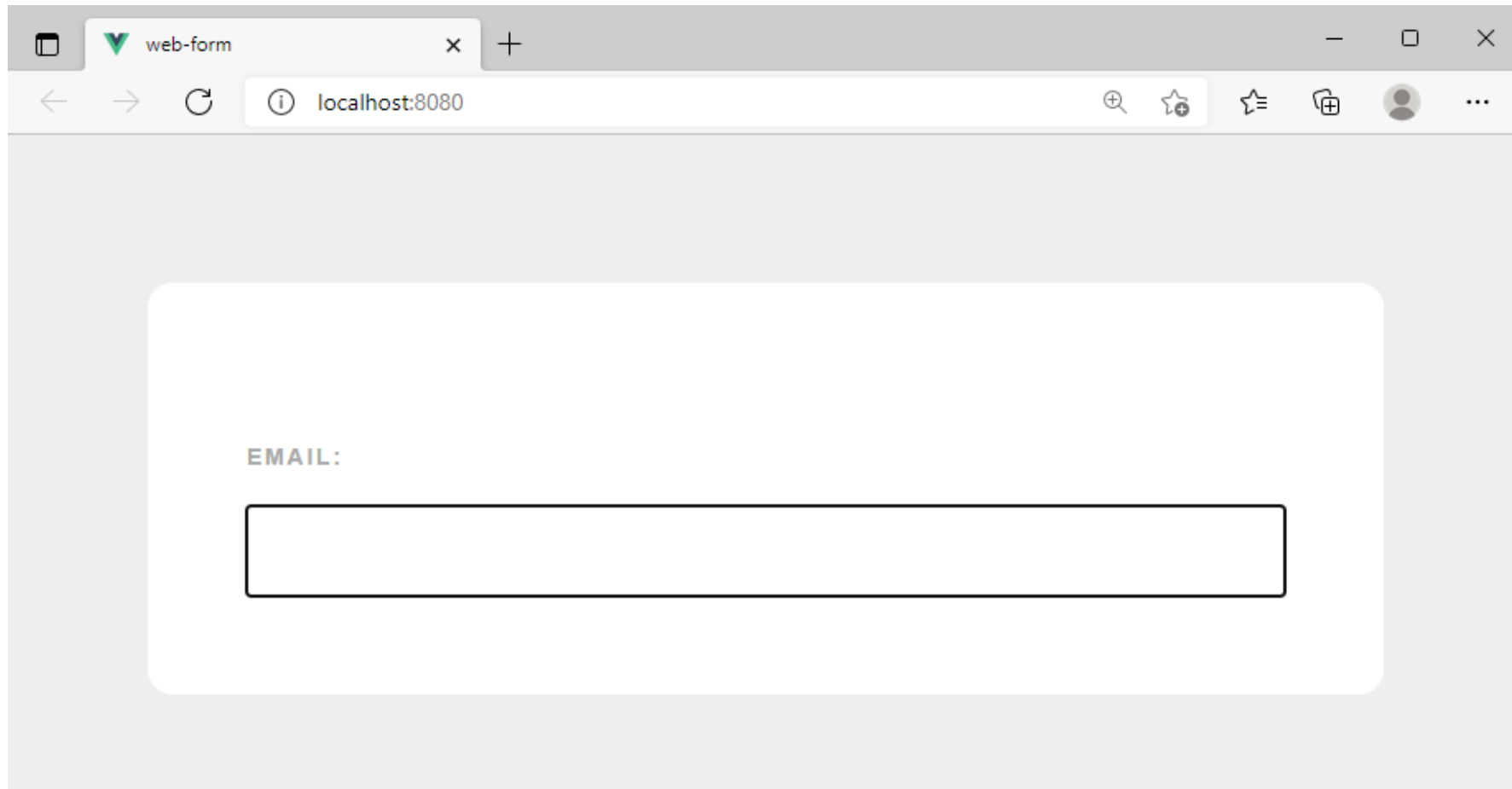

SignupForm.vue

```
<template>
  <form>
    <label>Email:</label>
    <input type="email" required>
  </form>
</template>

<script>
export default {
}
</script>

<style>
form {
  max-width: 420px;
  margin: 30px auto;
  background: white;
  text-align: left;
  padding: 40px;
  border-radius: 10px;
}
label {
  color: #aaa;
  display: inline-block;
  margin: 25px 0 15px;
  font-size: 0.6em;
  text-transform: uppercase;
  letter-spacing: 1px;
  font-weight: bold;
}
input {
  display: block;
  padding: 10px 6px;
  width: 100%;
  box-sizing: border-box;
  border: none;
  border-bottom: 1px solid #ddd;
  color: #555;
}
</style>
```

write commands in cmd: `npm run serve` and go to `http://localhost:8080/`





2-Way Data Binding

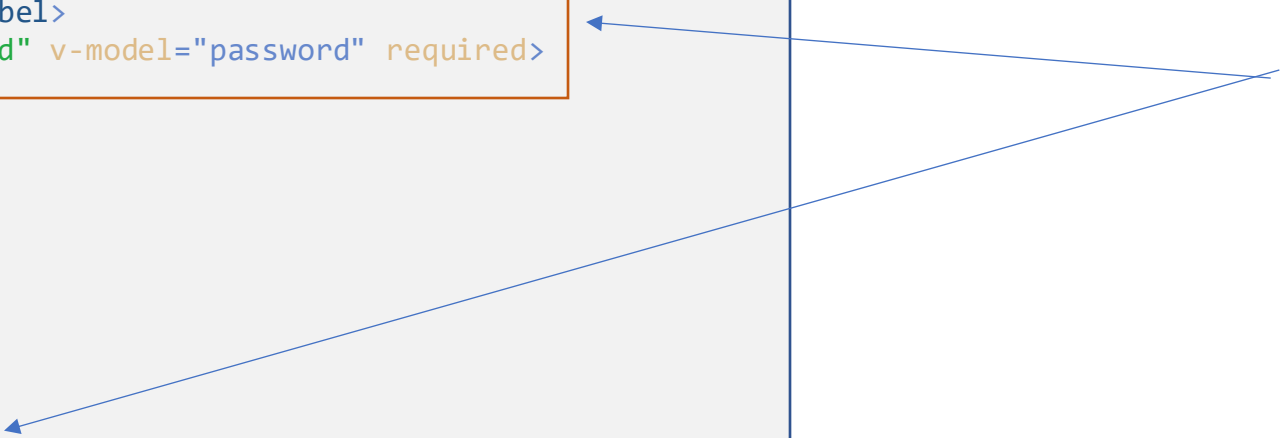
```
<template>
  <form>
    <label>Email:</label>
    <input type="email" v-model="email" required>

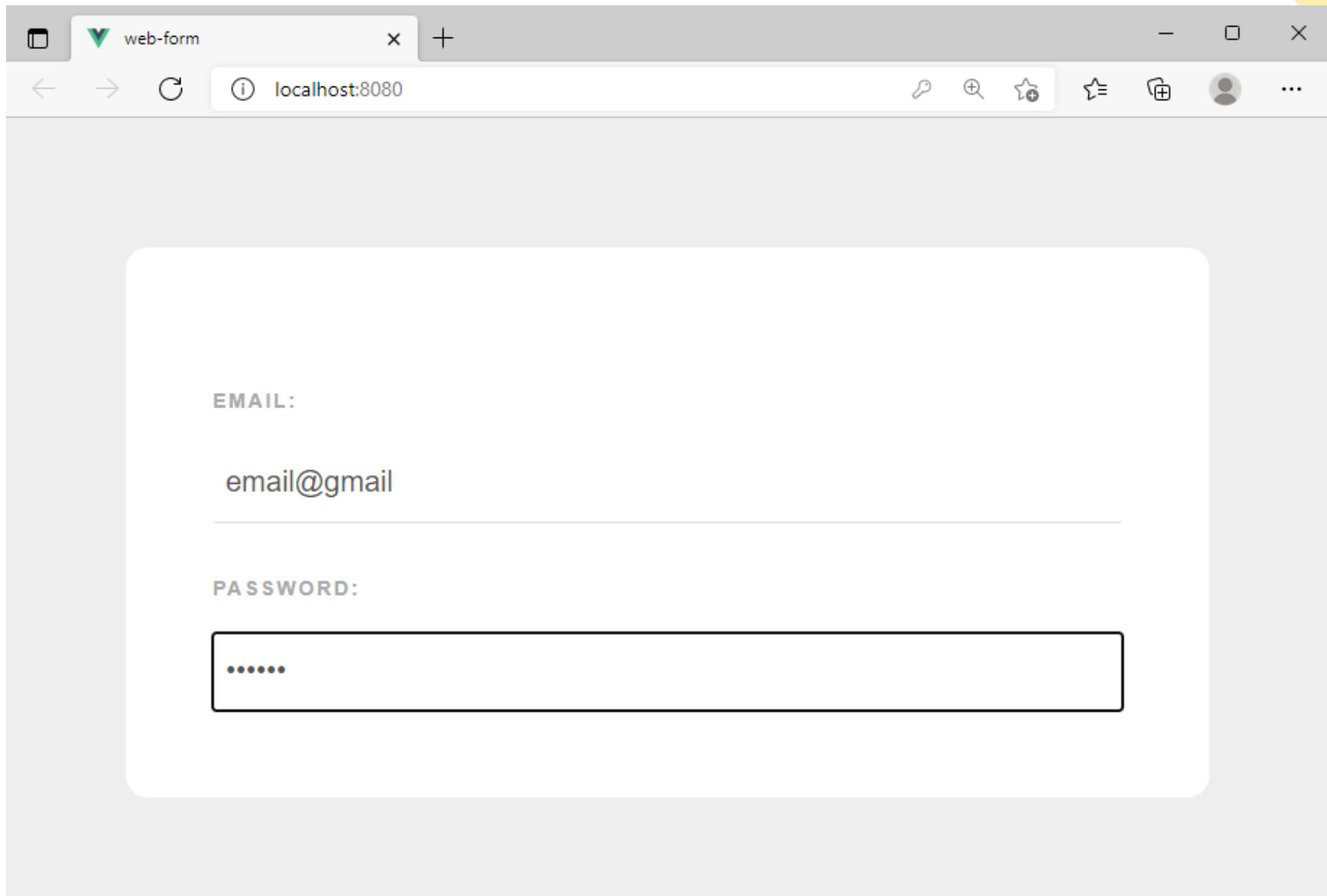
    <label>Password:</label>
    <input type="password" v-model="password" required>
  </form>
</template>

<script>
export default {
  data() {
    return {
      email: '',
      password: '',
    }
  }
}
</script>

<style>
...
</style>
```

Add
code





The image shows a web browser window with a single tab titled "web-form". The address bar displays "localhost:8080". The browser's toolbar includes navigation buttons (back, forward, refresh), an address bar with an information icon, and various utility icons (key, zoom, star, star with list, share, profile, and menu). The main content area features a light gray background with a white rounded rectangle containing a form. The form has two sections: "EMAIL:" with a text input field containing "email@gmail", and "PASSWORD:" with a password input field showing seven dots. The browser window is decorated with blue and yellow geometric shapes on the left and right sides.

web-form

localhost:8080

EMAIL:

email@gmail

PASSWORD:

.....

```
<template>
  <form>
    <label>Email:</label>
    <input type="email" v-model="email" required>

    <label>Password:</label>
    <input type="password" v-model="password" required>
  </form>

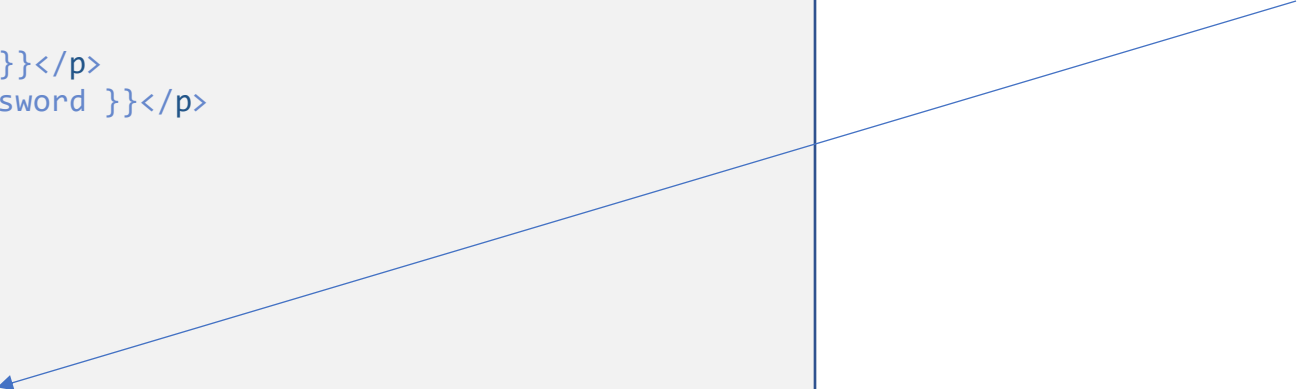
  <p>Email: {{ email }}</p>
  <p>Password: {{ password }}</p>

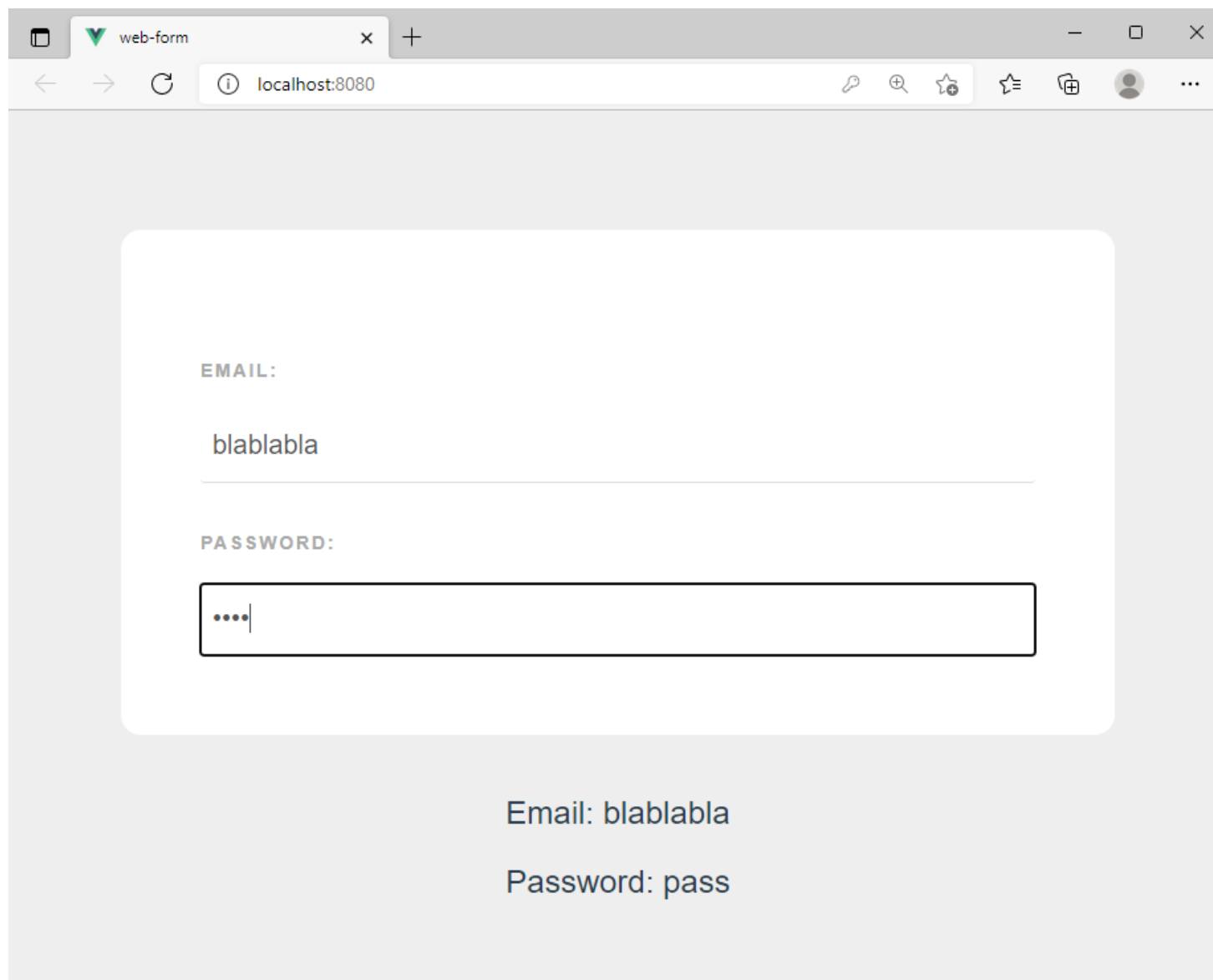
</template>

<script>
export default {
  data() {
    return {
      email: '',
      password: '',
    }
  }
}
</script>

<style>
...
</style>
```

Add
code





The image shows a web browser window with a single tab titled "web-form". The address bar displays "localhost:8080". The browser's toolbar includes navigation buttons (back, forward, refresh), an information icon, and icons for search, star, and share. The main content area features a light gray background with a white rounded rectangle in the center. Inside this rectangle, there is a form with two sections: "EMAIL:" followed by a text input containing "blablabla", and "PASSWORD:" followed by a password input containing three dots. Below the form, the text "Email: blablabla" and "Password: pass" is displayed.

web-form

localhost:8080

EMAIL:

blablabla

PASSWORD:

...

Email: blablabla

Password: pass

```
<template>
  <form>
    <label>Email:</label>
    <input type="email" v-model="email" required>

    <label>Password:</label>
    <input type="password" v-model="password" required>
  </form>

  <p>Email: {{ email }}</p>
  <p>Password: {{ password }}</p>

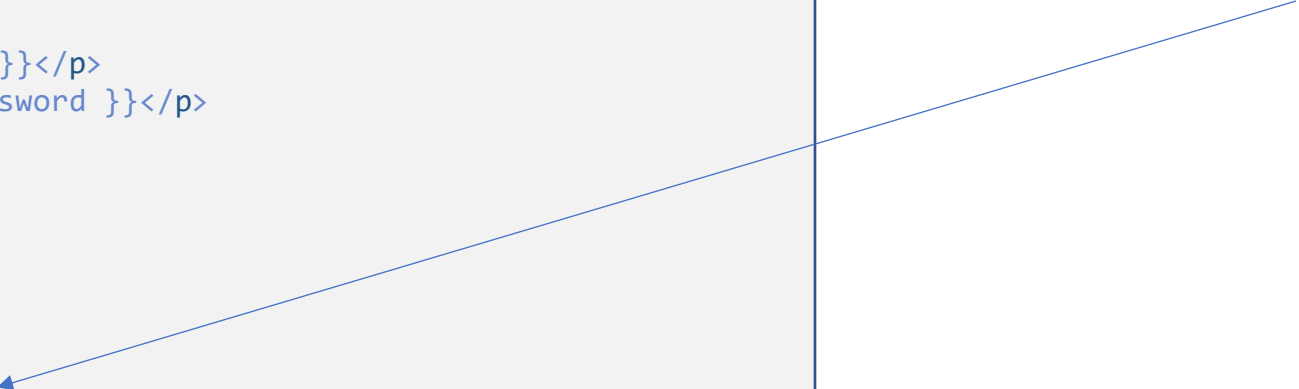
</template>

<script>
export default {
  data() {
    return {
      email: 'mario',

      password: '',
    }
  }
}
</script>

<style>
...
</style>
```

Add
code



The image shows a web browser window with a single tab titled "web-form". The address bar displays "localhost:8080". The browser's toolbar includes navigation buttons (back, forward, refresh), a search icon, a star icon, a list icon, a share icon, a user profile icon, and a "Settings and more" menu icon.

The main content area of the browser displays a login form on a light gray background. The form consists of a white rounded rectangle containing two input fields. The first field is labeled "EMAIL:" and contains the text "mario". The second field is labeled "PASSWORD:" and is currently empty. Both labels and the "mario" text are highlighted with red rectangular boxes.

Below the form, centered on the gray background, is a confirmation message. The text "Email: mario" is highlighted with a red rectangular box, and the text "Password:" is displayed directly below it.

A large circle with a green-to-yellow gradient background. A white horizontal band is positioned across the middle of the circle.

Select Boxes

```
<template>
  <form>
    <label>Email:</label>
    <input type="email" v-model="email" required>

    <label>Password:</label>
    <input type="password" v-model="password" required>

    <label>Role:</label>
    <select>
      <option value="developer">Web Developer</option>
      <option value="designer">Web Designer</option>
    </select>


  </form>

  <p>Email: {{ email }}</p>
  <p>Password: {{ password }}</p>
</template>

<script>
export default {
  data() {
    return {
      email: 'mario',
      password: '',
    }
  }
}
</script>

<style>...</style>
```

Add
code



web-form

localhost:8080

EMAIL:

mario

PASSWORD:

ROLE:

Web Developer

Web Designer

Email: mario

Password:

Edit file SignupForm.vue

```
<template>
  <form>
    <label>Email:</label>
    <input type="email" v-model="email" required>

    <label>Password:</label>
    <input type="password" v-model="password" required>

    <label>Role:</label>
    <select v-model="role">
      <option value="developer">Web Developer</option>
      <option value="designer">Web Designer</option>
    </select>

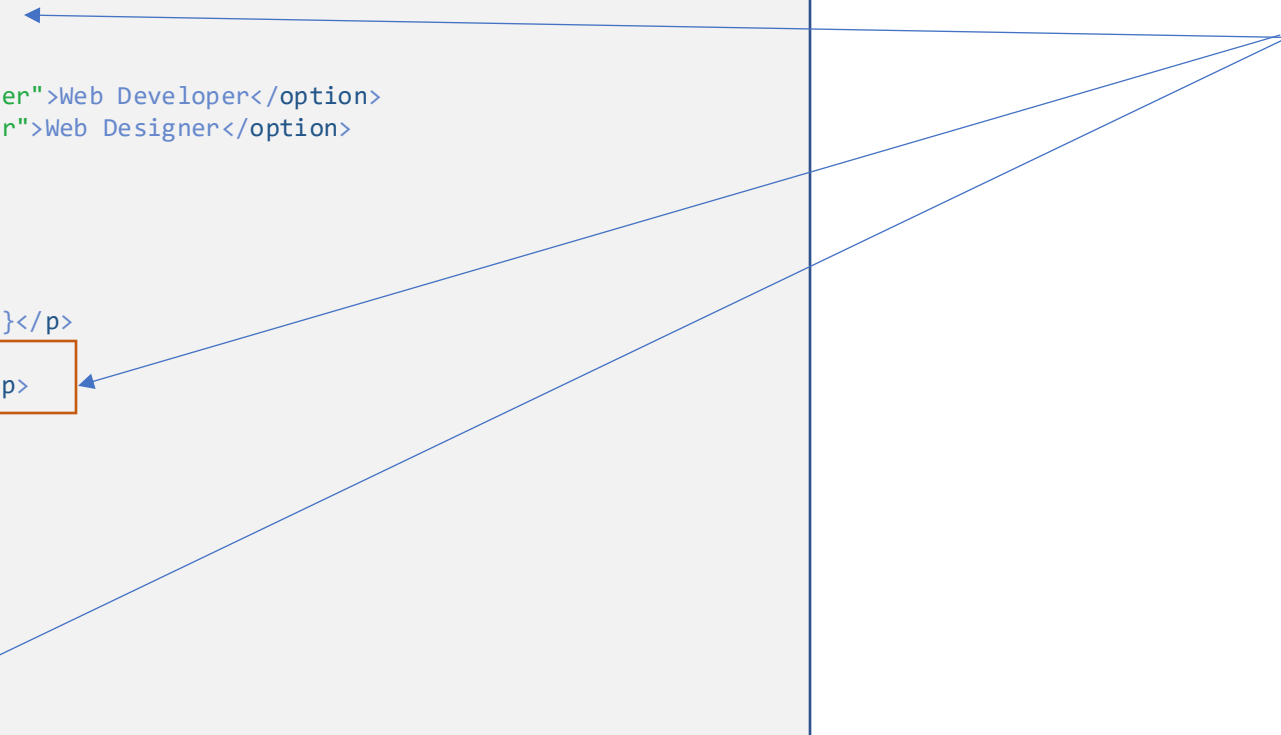
  </form>

  <p>Email: {{ email }}</p>
  <p>Password: {{ password }}</p>
  <p>Your role: {{ role }}</p>
</template>

<script>
export default {
  data() {
    return {
      email: 'mario',
      password: '',
      role: '',
    }
  }
}
</script>

<style>
...
</style>
```

Add
code



web-form x +

localhost:8080

EMAIL:

mario

PASSWORD:

ROLE: Web Designer ▼

Email: mario

Password:

Your role: designer

```
<template>
....
</template>

<script>
export default {
  data() {
    return {
      email: 'mario',
      password: '',
      role: 'designer',
    }
  }
}
</script>

<style>
  form {
    ...
  }
  label {
    ...
  }
  input, select {
    display: block;
    padding: 10px 6px;
    width: 100%;
    box-sizing: border-box;
    border: none;
    border-bottom: 1px solid #ddd;
    color: #555;
  }
</style>
```

Add
code

'designer',

select

web-form

localhost:8080

EMAIL:

mario

PASSWORD:

ROLE:

Web Designer

Email: mario

Password:

Your role: designer



Checkboxes

```
<template>
  <form>
    <label>Email:</label>
    <input type="email" v-model="email" required>

    <label>Password:</label>
    <input type="password" v-model="password" required>

    <label>Role:</label>
    <select v-model="role">
      <option value="developer">Web Developer</option>
      <option value="designer">Web Designer</option>
    </select>

    <div class="terms">
      <input type="checkbox" required>
      <label>Accept terms and conditions</label>
    </div>

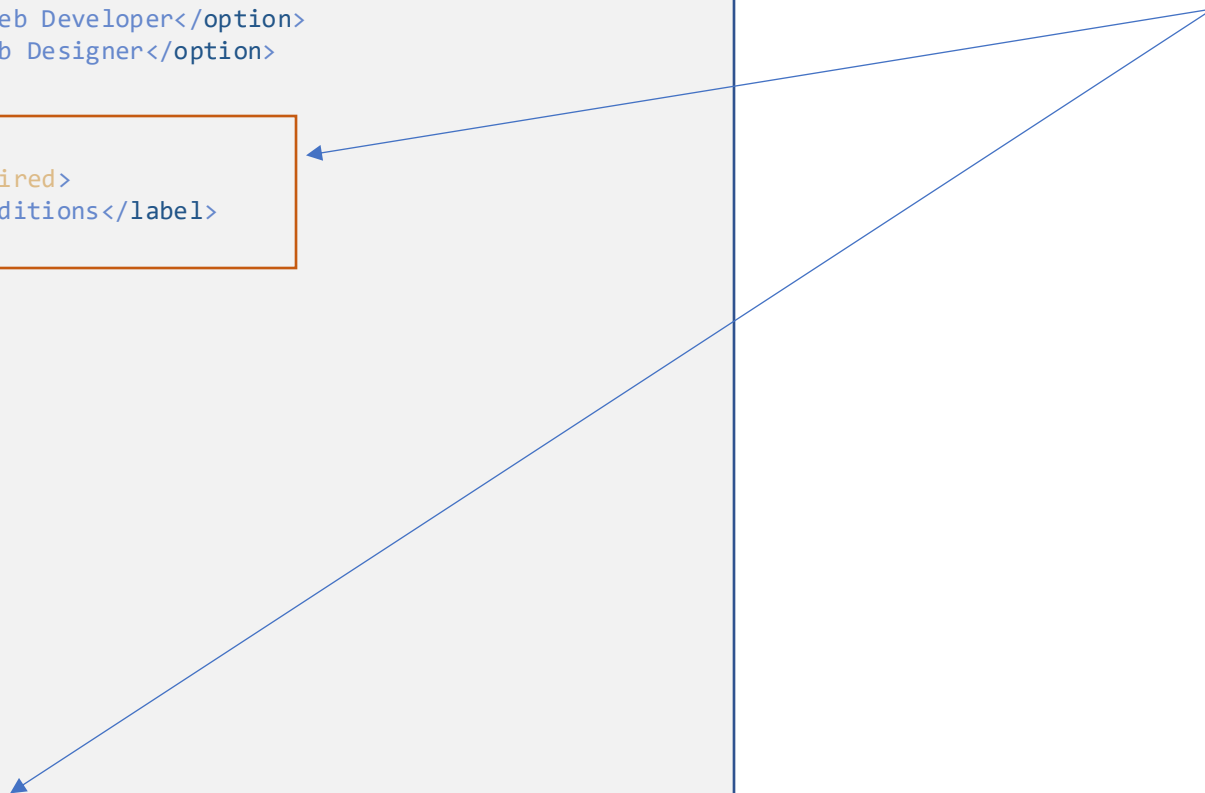
  </form>

  <p>Email: {{ email }}</p>
  <p>Password: {{ password }}</p>
  <p>Your role: {{ role }}</p>
</template>

<script>
...
</script>

<style>
...
input[type="checkbox"] {
  display: inline-block;
  width: 16px;
  margin: 0 10px 0 0;
  position: relative;
  top: 2px;
}
</style>
```

Add
code



web-form

localhost:8080

EMAIL:

mario

PASSWORD:

ROLE:

Web Designer

☐ ACCEPT TERMS AND CONDITIONS

Email: mario

Password:

Your role: designer

```
<template>
  <form>
  ...

  <div class="terms">
    <input type="checkbox" v-model="terms" required>

    <label>Accept terms and conditions</label>
  </div>

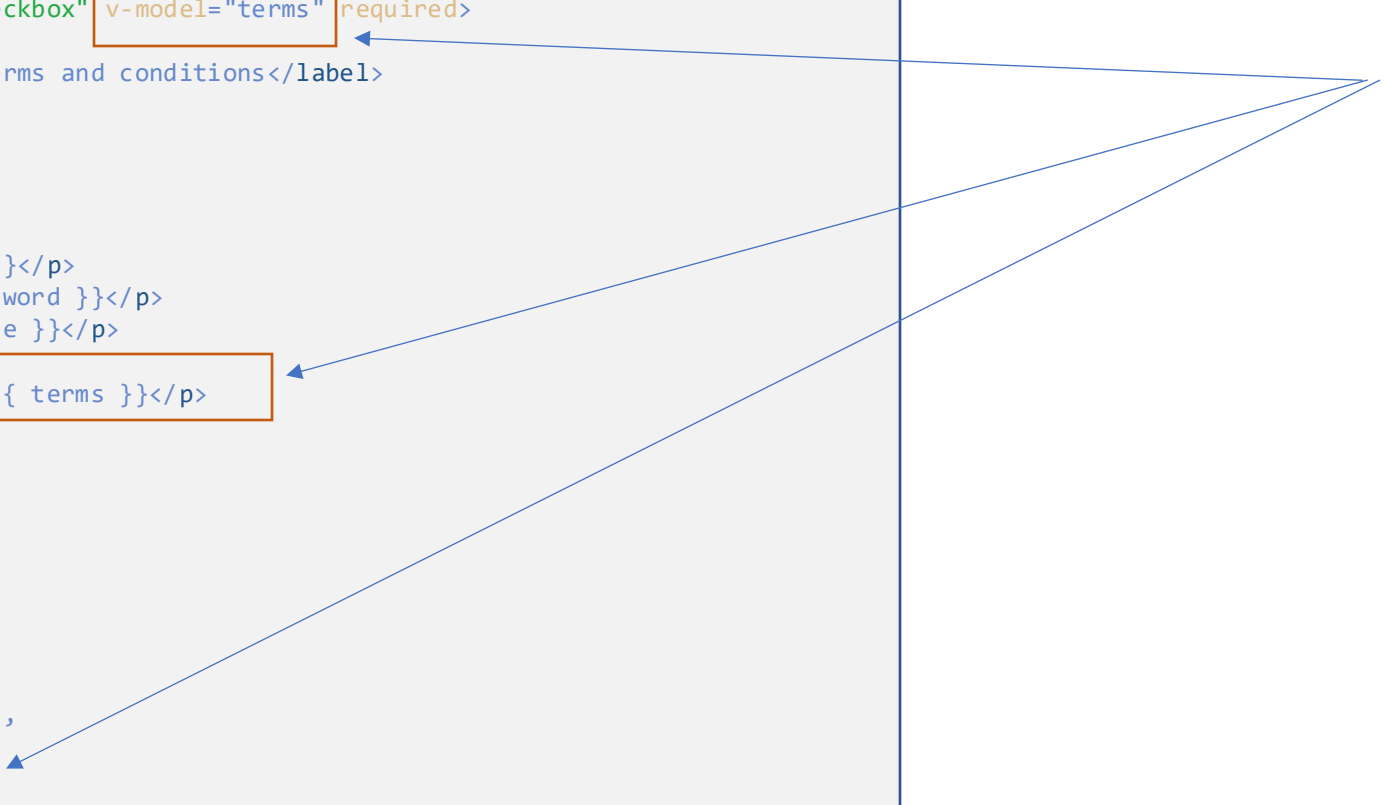
</form>

<p>Email: {{ email }}</p>
<p>Password: {{ password }}</p>
<p>Your role: {{ role }}</p>
<p>Terms accepted: {{ terms }}</p>
</template>

<script>
export default {
  data() {
    return {
      email: 'mario',
      password: '',
      role: 'designer',
      terms: false,
    }
  }
}
</script>

<style>...</style>
```

Add
code



web-form

localhost:8080

EMAIL:

mario

PASSWORD:

ROLE:

Web Designer

☐ ACCEPT TERMS AND CONDITIONS

Email: mario

Password:

Your role: designer

Terms accepted: false

Edit file SignupForm.vue

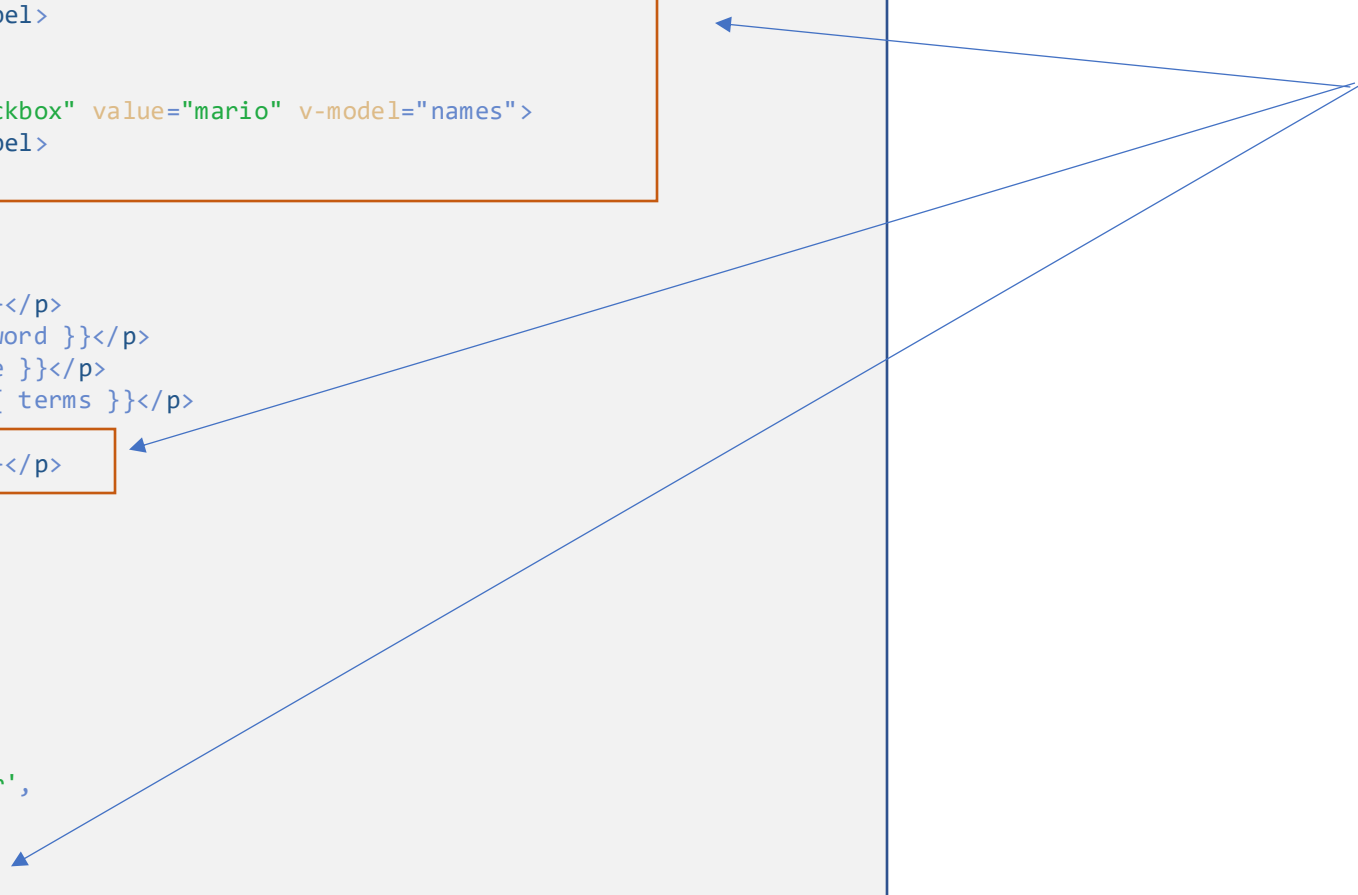
```
<template>
...
  <div>
    <input type="checkbox" value="mary" v-model="names">
    <label>mary</label>
  </div>
  <div>
    <input type="checkbox" value="yoshi" v-model="names">
    <label>yoshi</label>
  </div>
  <div>
    <input type="checkbox" value="mario" v-model="names">
    <label>mario</label>
  </div>

</form>

<p>Email: {{ email }}</p>
<p>Password: {{ password }}</p>
<p>Your role: {{ role }}</p>
<p>Terms accepted: {{ terms }}</p>
<p>Names: {{ names }}</p>
</template>

<script>
export default {
  data() {
    return {
      email: 'mario',
      password: '',
      role: 'designer',
      terms: false,
      names: [],
    }
  }
}
</script>
<style>...</style>
```

Add
code



web-form

localhost:8080

EMAIL:

mario

PASSWORD:

ROLE:

Web Designer

☐ ACCEPT TERMS AND CONDITIONS

☒ MARY

☐ YOSHI

☒ MARIO

Email: mario

Password:

Your role: designer

Terms accepted: false

Names: ["mary", "mario"]

Edit file SignupForm.vue

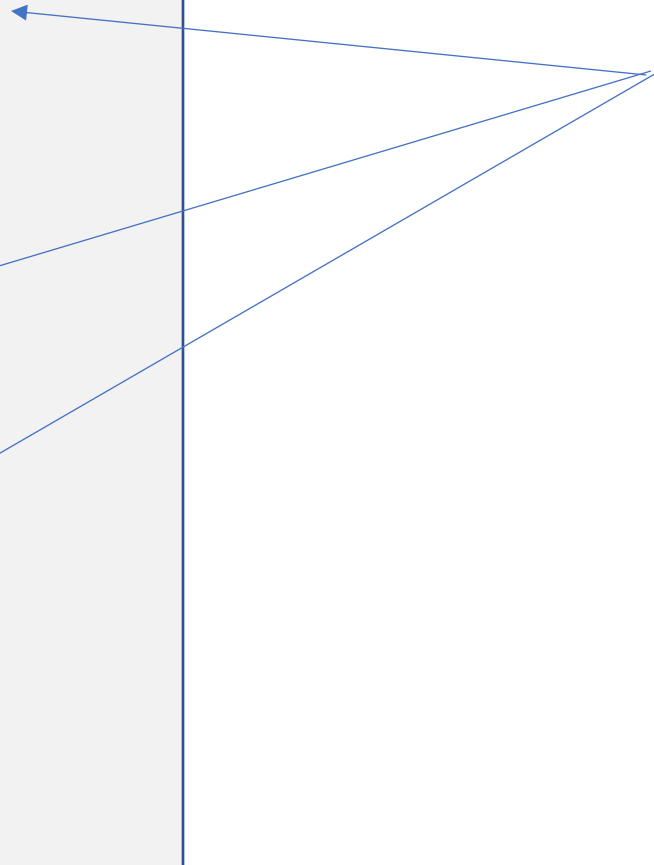
```
<template>
...
  <div>
    <input type="checkbox" value="mary" v-model="names">
    <label>mary</label>
  </div>
  <div>
    <input type="checkbox" value="yoshi" v-model="names">
    <label>yoshi</label>
  </div>
  <div>
    <input type="checkbox" value="mario" v-model="names">
    <label>mario</label>
  </div>

</form>

<p>Email: {{ email }}</p>
<p>Password: {{ password }}</p>
<p>Your role: {{ role }}</p>
<p>Terms accepted: {{ terms }}</p>
<p>Names: {{ names }}</p>
</template>

<script>
export default {
  data() {
    return {
      email: 'mario',
      password: '',
      role: 'designer',
      terms: false,
      names: [],
    }
  }
}
</script>
<style>...</style>
```

Remove
code





Keyboard Events

```
<template>
  <form>
    ...

    <label>Skills</label>
    <input type="text" v-model="tempSkill">

    <div class="terms">
      <input type="checkbox" v-model="terms" required>
      <label>Accept terms and conditions</label>
    </div>

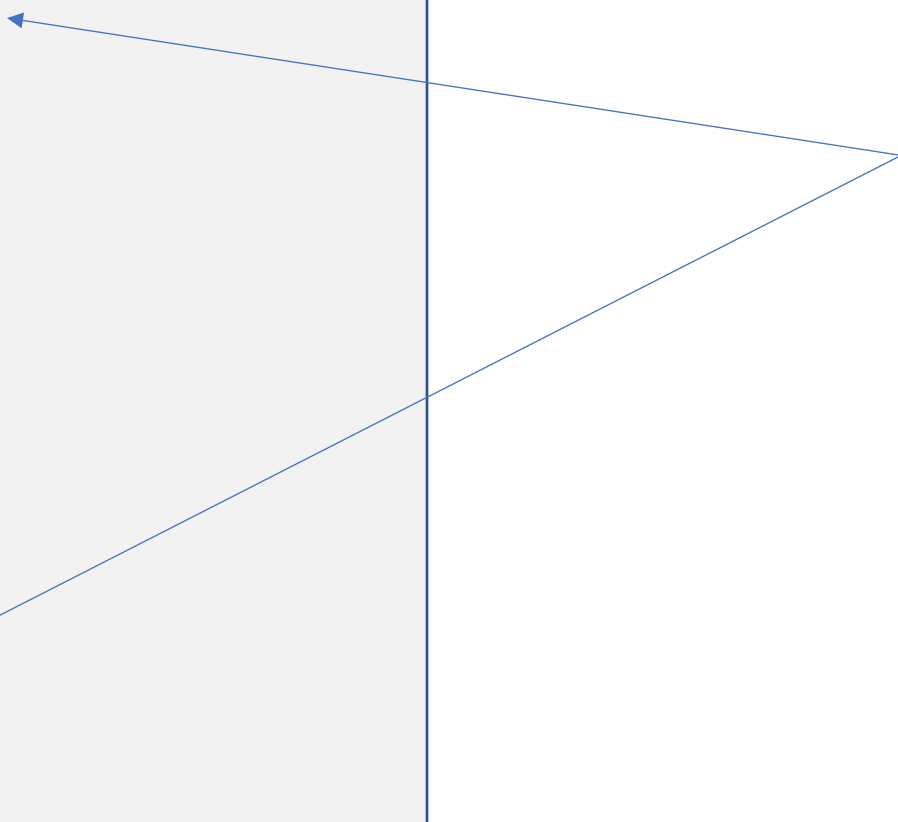
  </form>

  <p>Email: {{ email }}</p>
  <p>Password: {{ password }}</p>
  <p>Your role: {{ role }}</p>
  <p>Terms accepted: {{ terms }}</p>
</template>

<script>
export default {
  data() {
    return {
      email: 'mario',
      password: '',
      role: 'designer',
      terms: false,
      tempSkill: '',
    }
  }
}
</script>

<style>
...
</style>
```

Add
code



web-form

localhost:8080

EMAIL:

mario

PASSWORD:

ROLE:

Web Designer

SKILLS

vue

☐ ACCEPT TERMS AND CONDITIONS

Email: mario

Password:

Your role: designer

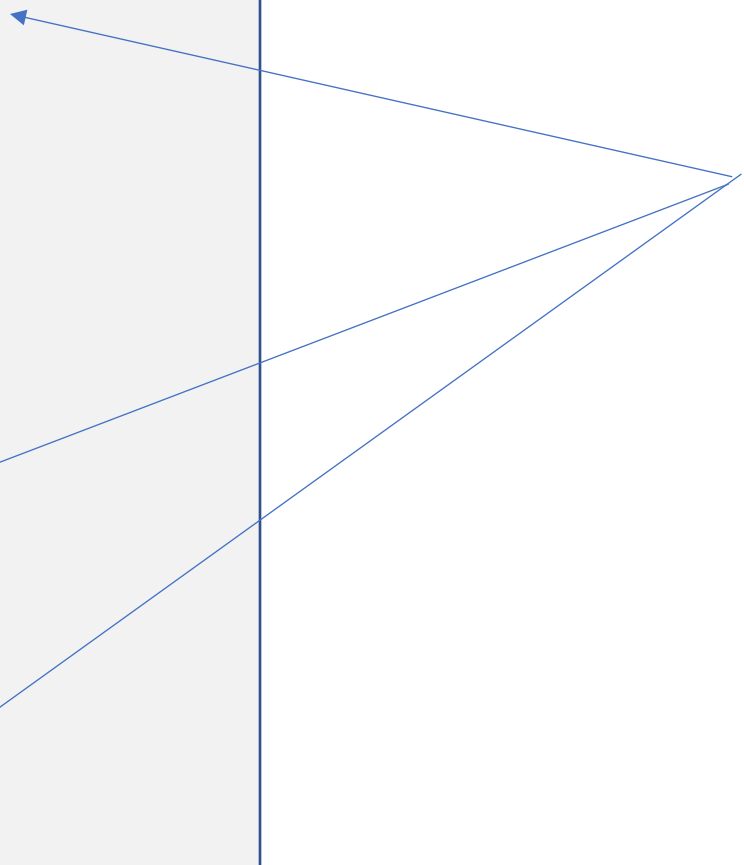
Terms accepted: false

Edit file SignupForm.vue

```
<template>
  <form>
    ...
    <label>Skills</label>
    <input type="text" v-model="tempSkill" @keyup="addSkill">
    <div v-for="skill in skills" :key="skill" class="pill">
      {{ skill }}
    </div>

    <div class="terms">
      <input type="checkbox" v-model="terms" required>
      <label>Accept terms and conditions</label>
    </div>
  </form>
  ...
</template>
<script>
export default {
  data() {
    return {
      email: 'mario',
      password: '',
      role: 'designer',
      terms: false,
      tempSkill: '',
      skills: [],
    }
  },
  methods: {
    addSkill(e) {
      console.log(e)
      if(e.key === ',' && this.tempSkill) {
        this.skills.push(this.tempSkill)
        this.tempSkill = ''
      }
    },
  },
}
</script>
<style>...</style>
```

Add
code



web-form

localhost:8080

EMAIL:

mario

PASSWORD:

ROLE:

Web Designer

SKILLS

html,

☐ ACCEPT TERMS AND CONDITIONS

Email: mario

Password:

Your role: designer

Terms accepted: false

9

1 hidden

[HMR] Waiting for update signal from WDS...

log.js?1afd:24

SignupForm.vue?1aa5:49

KeyboardEvent {isTrusted: true, key: 'h', code: 'KeyH', Location: 0, ctrlKey: false, ...}

SignupForm.vue?1aa5:49

KeyboardEvent {isTrusted: true, key: 't', code: 'KeyT', Location: 0, ctrlKey: false, ...}

SignupForm.vue?1aa5:49

KeyboardEvent {isTrusted: true, key: 'm', code: 'KeyM', Location: 0, ctrlKey: false, ...}

SignupForm.vue?1aa5:49

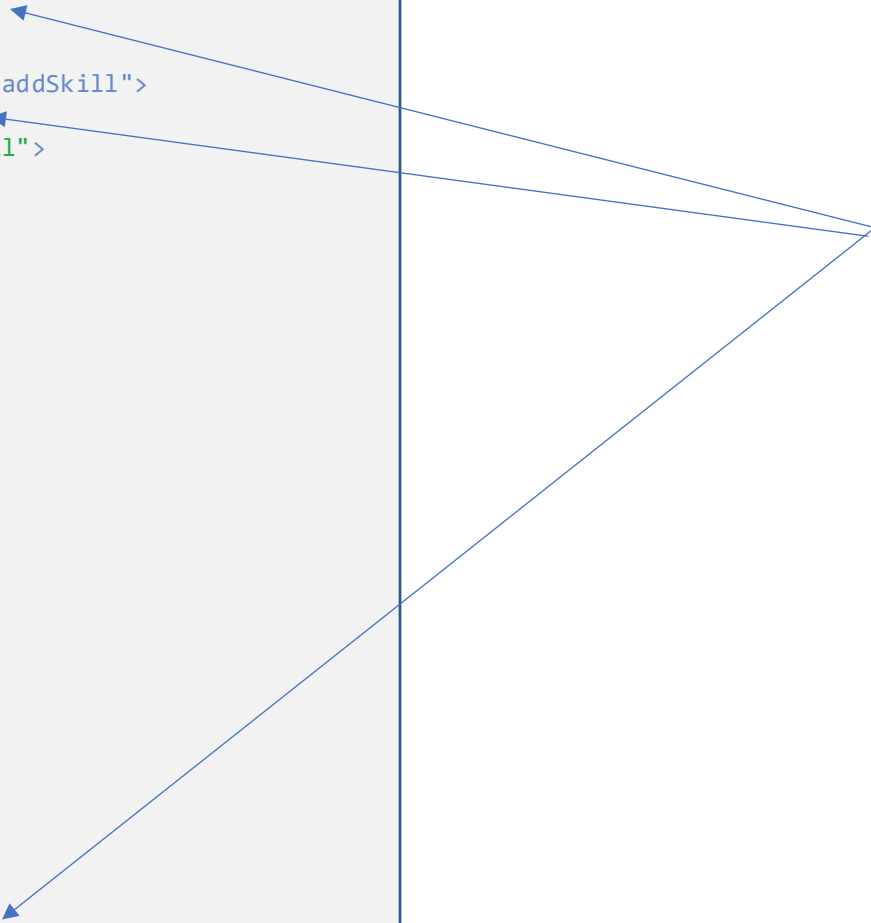
KeyboardEvent {isTrusted: true, key: 'L', code: 'KeyL', Location: 0, ctrlKey: false, ...}

SignupForm.vue?1aa5:49

KeyboardEvent {isTrusted: true, key: ',', code: 'Comma', Location: 0, ctrlKey: false, ...}

```
<template>
  <form>
  ...
  <label>Skills (press alt + comma to add):</label>
  <input type="text" v-model="tempSkill" @keyup.alt="addSkill">
  <div v-for="skill in skills" :key="skill" class="pill">
    {{ skill }}
  </div>
  ...
</form>
...
</template>
<script>
export default {
  data() {
    return {
      email: 'mario',
      password: '',
      role: 'designer',
      terms: false,
      tempSkill: '',
      skills: [],
    }
  },
  methods: {
    addSkill(e) {
      if(e.key === ',' && this.tempSkill) {
        if (!this.skills.includes(this.tempSkill)) {
          this.skills.push(this.tempSkill)
        }
        this.tempSkill = ''
      }
    }
  },
}
</script>
<style>...</style>
```

Add/modify
code



web-form

localhost:8080

EMAIL:

mario

PASSWORD:

ROLE:

Web Designer

SKILLS (PRESS ALT + COMMA TO ADD):

CSS

html

☐ ACCEPT TERMS AND CONDITIONS

Email: mario

Password:

Your role: designer

Terms accepted: false

Welcome

Elements

Console

Sources

Network

9

Filter

Default levels

9

1 hidden

[HMR] Waiting for update signal from WDS...

log.js?1afd:24

SignupForm.vue?1aa5:49

KeyboardEvent {isTrusted: true, key: ',', code: 'Comma', Location: 0, ctrlKey: false, ...}

SignupForm.vue?1aa5:49

KeyboardEvent {isTrusted: true, key: ',', code: 'Comma', Location: 0, ctrlKey: false, ...}



Challenge

Deleting Skills

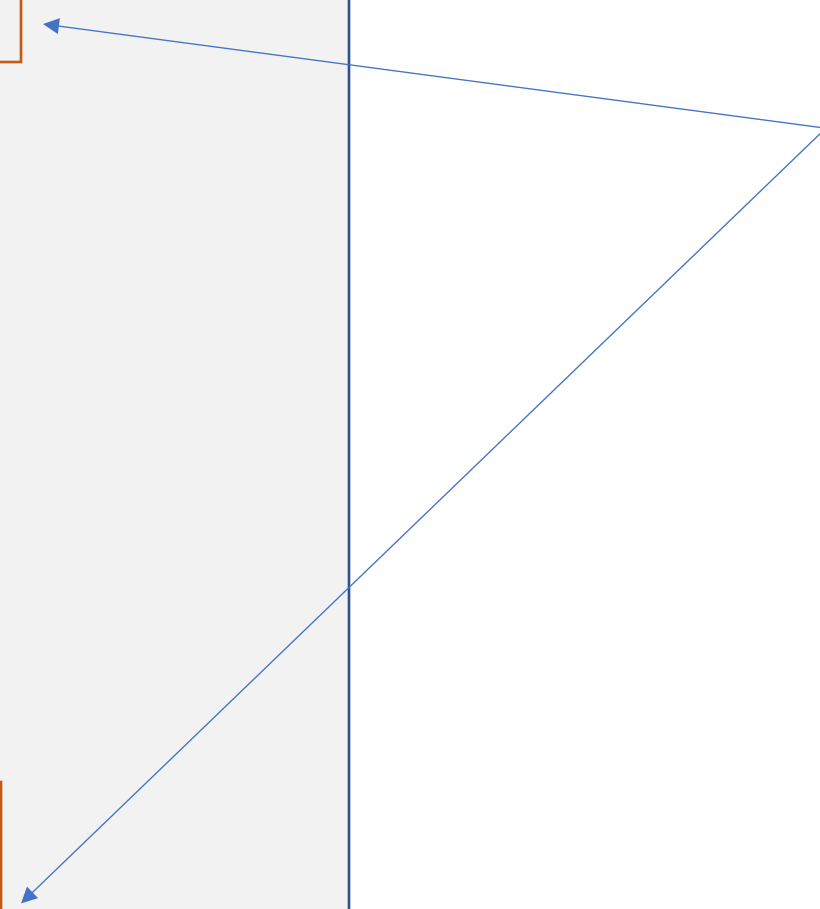
when a user clicks on a skill,
delete that skill

Edit file SignupForm.vue

```
<template>
  <form>
  ...
  <label>Skills (press alt + comma to add):</label>
  <input type="text" v-model="tempSkill" @keyup.alt="addSkill">
  <div v-for="skill in skills" :key="skill" class="pill">
    <span @click="deleteSkill(skill)">{{ skill }}</span>
  </div>
  ...
</form>
...
</template>

<script>
export default {
  data() {
  ...
  },
  methods: {
    addSkill(e) {
      if(e.key === ',' && this.tempSkill) {
        if (!this.skills.includes(this.tempSkill)) {
          this.skills.push(this.tempSkill)
        }
        this.tempSkill = ''
      }
    },
    deleteSkill(skill) {
      this.skills = this.skills.filter(item => {
        return skill !== item
      })
    }
  }
}
</script>
<style>...</style>
```

Add
code



```
<template>
...

</template>

<script>
...
</script>

<style>
  form {
  ...
  }
  label {
  ...
  }
  input, select {
  ...
  }
  input[type="checkbox"] {
  ...
  }

  .pill {
    display: inline-block;
    margin: 20px 10px 0 0;
    padding: 6px 12px;
    background: #eee;
    border-radius: 20px;
    font-size: 12px;
    letter-spacing: 1px;
    font-weight: bold;
    color: #777;
    cursor: pointer;
  }

</style>
```

Add
code



web-form

localhost:8080

EMAIL:

mario

PASSWORD:

ROLE:

Web Designer

SKILLS (PRESS ALT + COMMA TO ADD):

html

css

photoshop

☐ ACCEPT TERMS AND CONDITIONS

Email: mario

Password:

Your role: designer

Terms accepted: false



Submitting Forms

Edit file SignupForm.vue

```
<template>
  <form>
    ...

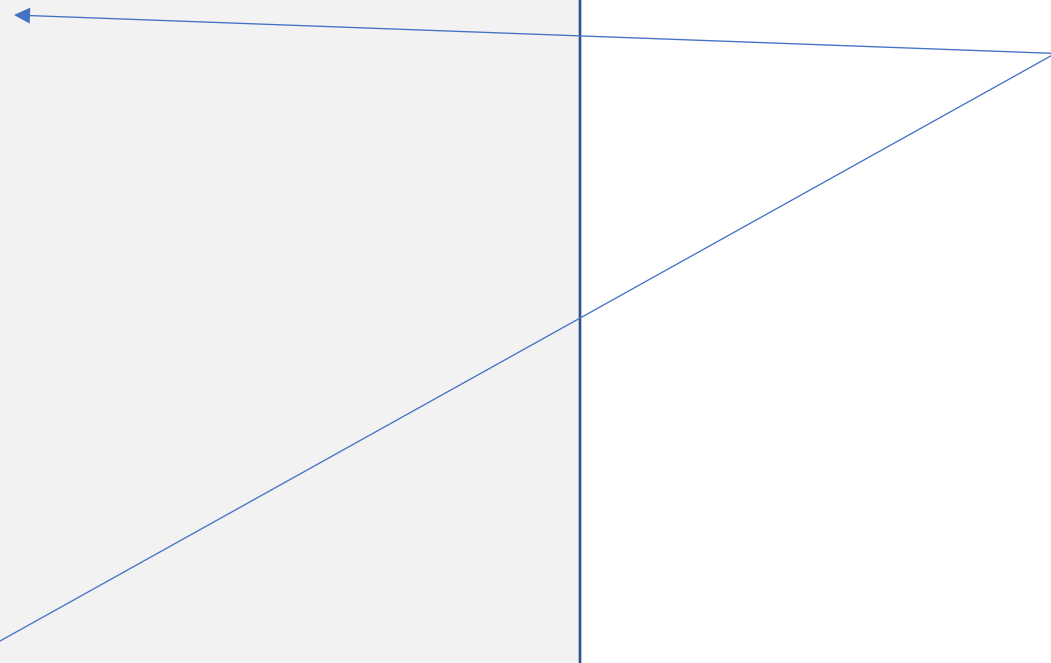
    <div class="terms">
      <input type="checkbox" v-model="terms" required>
      <label>Accept terms and conditions</label>
    </div>

    <div class="submit">
      <button>Create an Account</button>
    </div>
  </form>
</template>

<script>
  ...
</script>

<style>
  ...
  button {
    background: #0b6dff;
    border: 0;
    padding: 10px 20px;
    margin-top: 20px;
    color: white;
    border-radius: 20px;
  }
  .submit {
    text-align: center;
  }
  .error {
    color: #ff0062;
    margin-top: 10px;
    font-size: 0.8em;
    font-weight: bold;
  }
</style>
```

Add
code



EMAIL:

PASSWORD:

ROLE:

Web Designer



SKILLS (PRESS ALT + COMMA TO ADD):

☐ ACCEPT TERMS AND CONDITIONS

Create an Account

Edit file SignupForm.vue

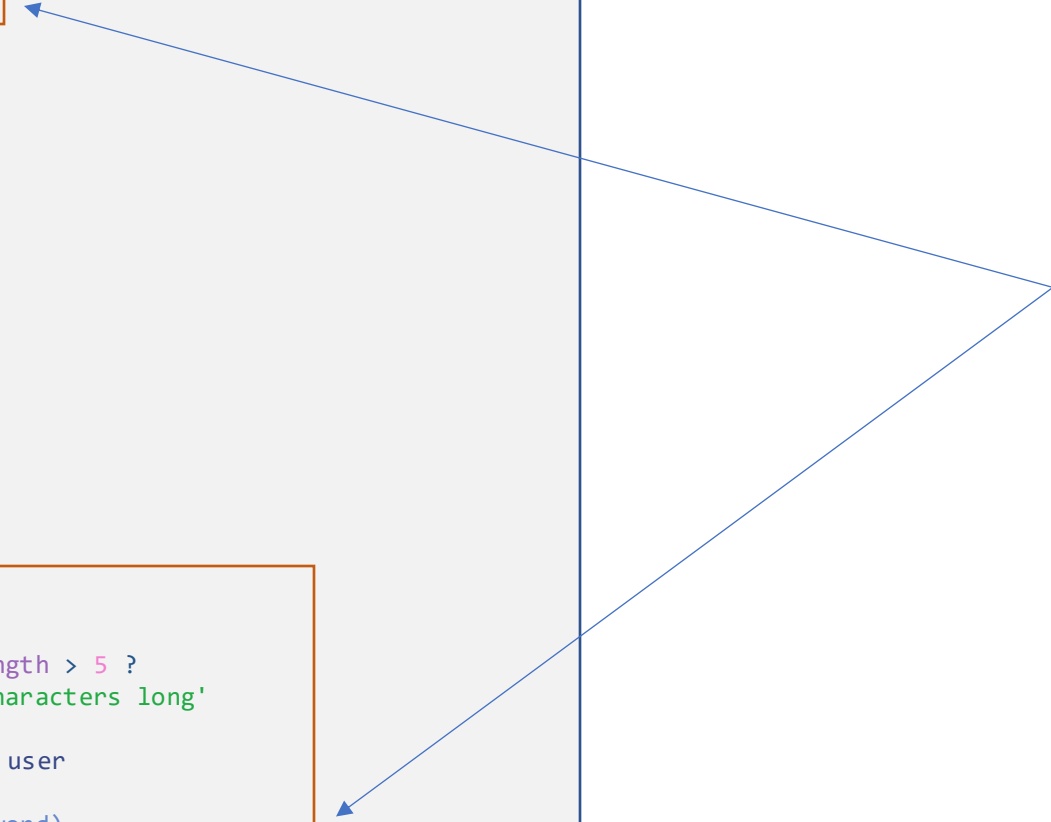
```
<template>
  <form @submit.prevent="handleSubmit" >
  ...
</form>

</template>

<script>
export default {
  data() {
  ...
  },
  methods: {
    addSkill(e) {
  ...
    },
    deleteSkill(skill) {
  ...
    },
    handleSubmit() {
      // validate password
      this.passwordError = this.password.length > 5 ?
        '' : 'Password must be at least 6 characters long'
      if (!this.passwordError) {
        // make request to database to save user
        console.log('email: ', this.email)
        console.log('password: ', this.password)
        console.log('role: ', this.role)
        console.log('skills: ', this.skills)
        console.log('terms accepted: ', this.terms)
      }
    }
  }
}
</script>

<style>
...
</style>
```

Add
code



Edit file SignupForm.vue

```
<template>
  <form @submit.prevent="handleSubmit" >

    <label>Email:</label>
    <input type="email" v-model="email" required>

    <label>Password:</label>
    <input type="password" v-model="password" required>

    <div v-if="passwordError" class="error">{{ passwordError }}</div>
  ...

</form>
</template>

<script>
export default {
  data() {
    return {
      email: '',
      password: '',
      role: 'designer',
      terms: false,
      tempSkill: '',
      skills: [],
      passwordError: null,
    }
  },
  methods: {
    ...
  }
}
</script>

<style>...</style>
```

Add
code



EMAIL:

mary@gmail.com

PASSWORD:

....

Password must be at least 6 characters long

ROLE:

Web Designer



SKILLS (PRESS ALT + COMMA TO ADD):

☒ ACCEPT TERMS AND CONDITIONS

Create an Account

