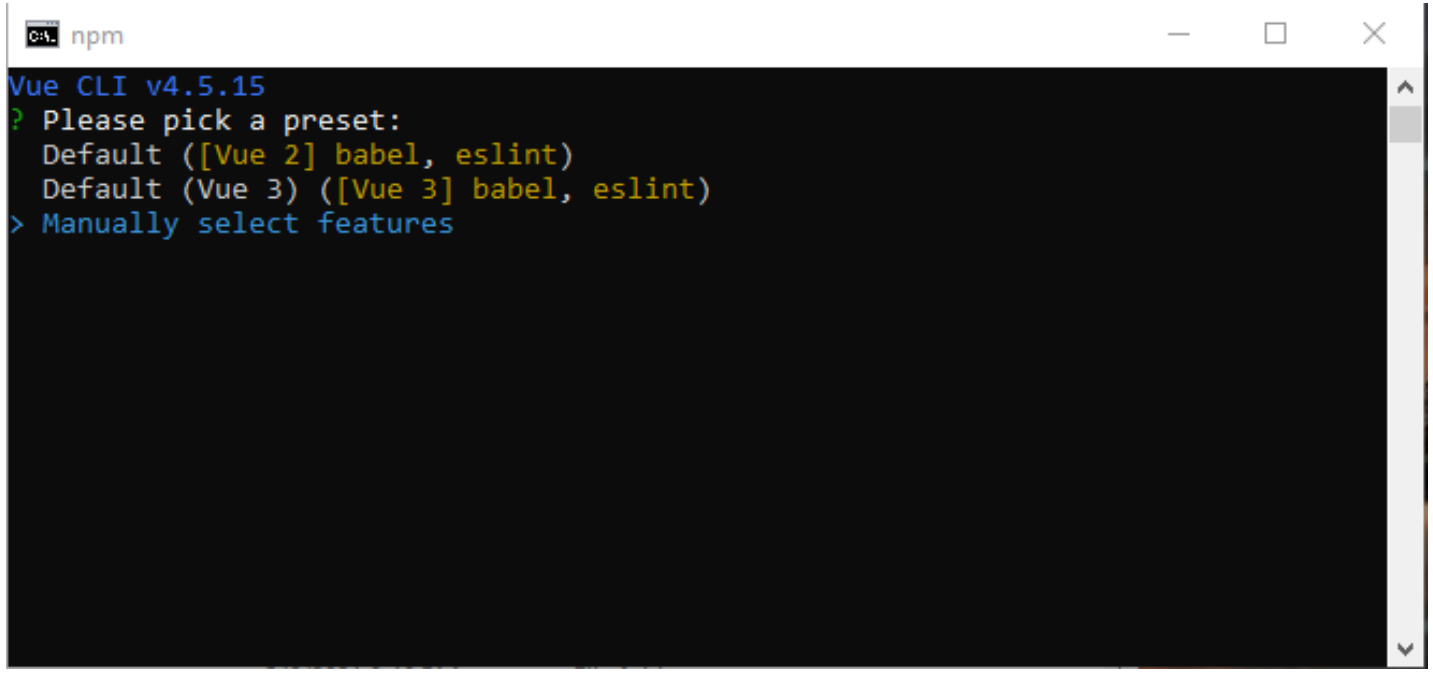
Forms & Inputs

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:

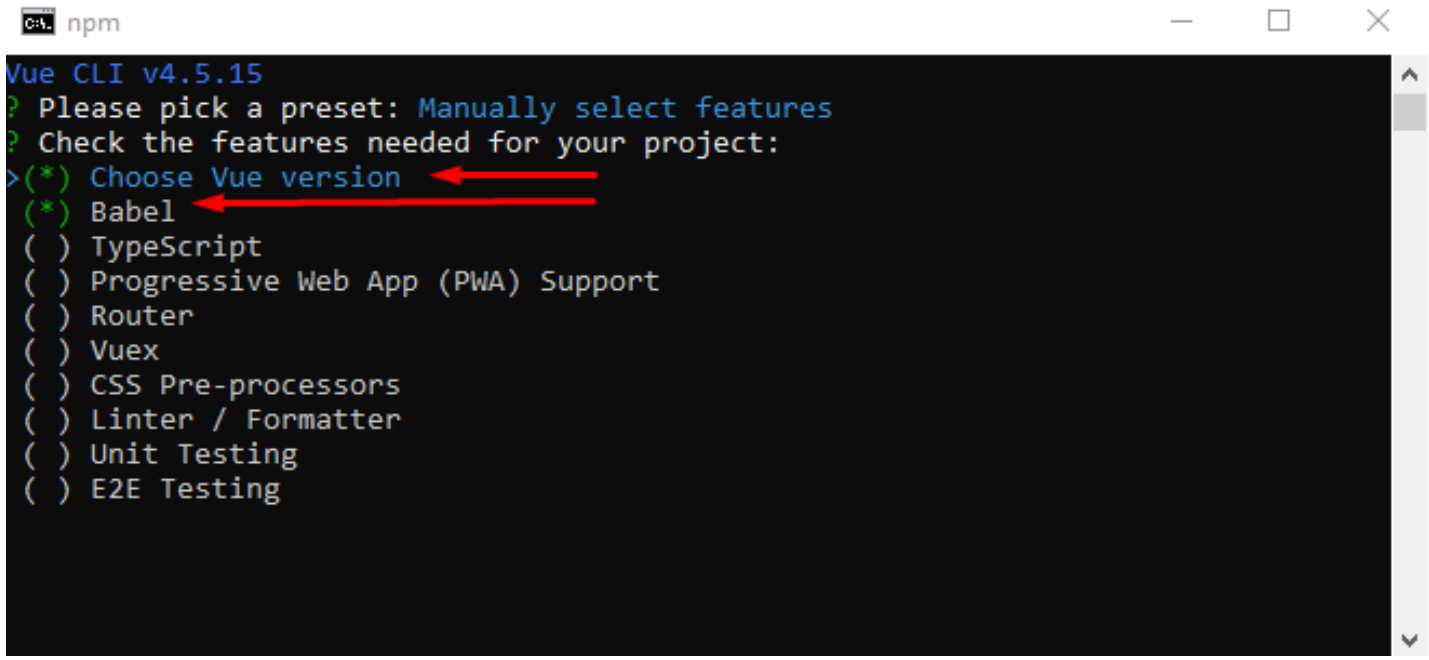
- vue create web-form

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



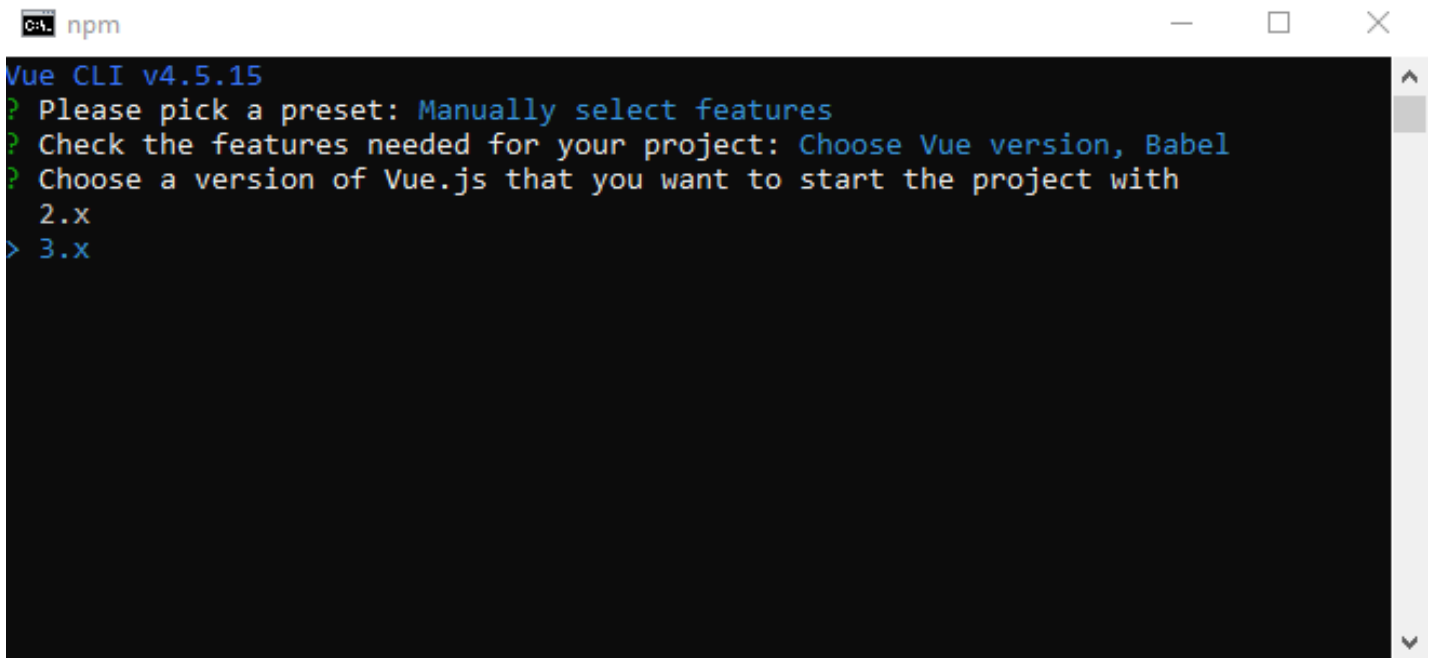
Select
Choose Vue
version
Babel

Click 'Enter'



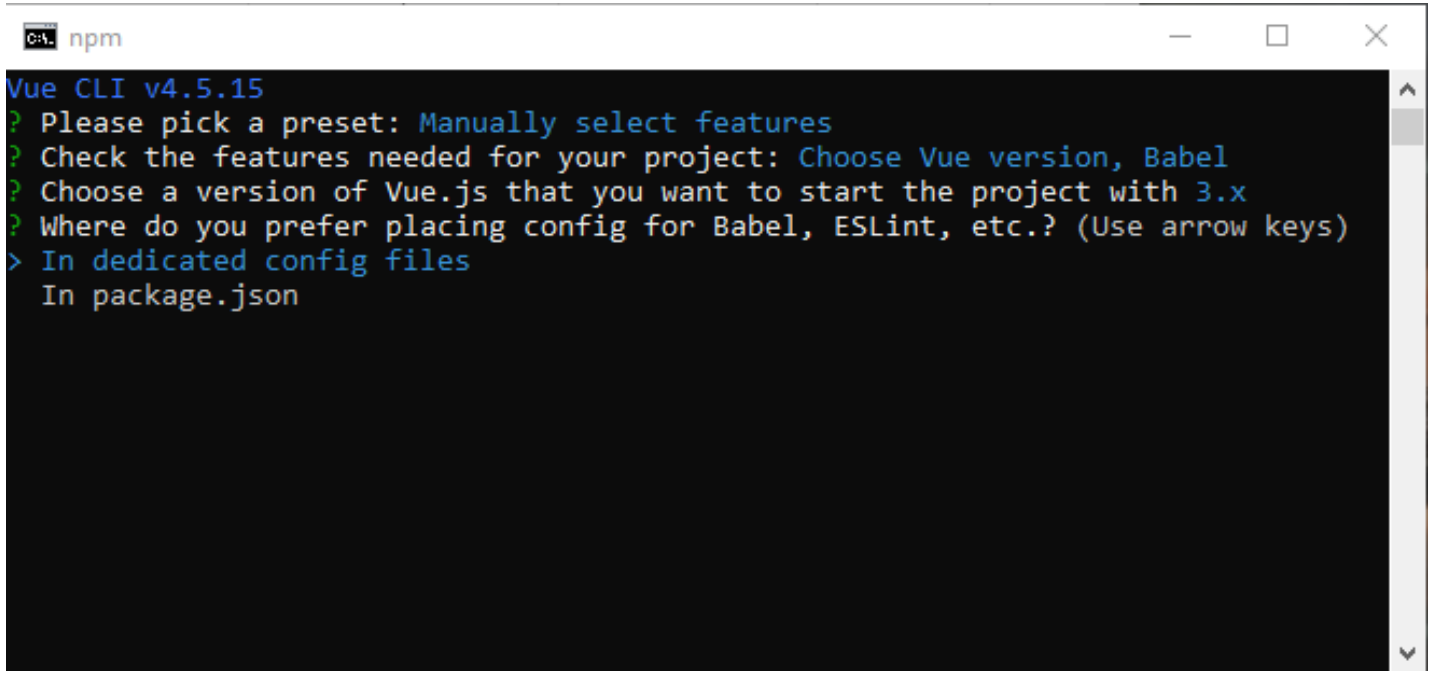
Select 3.x

Click 'Enter'



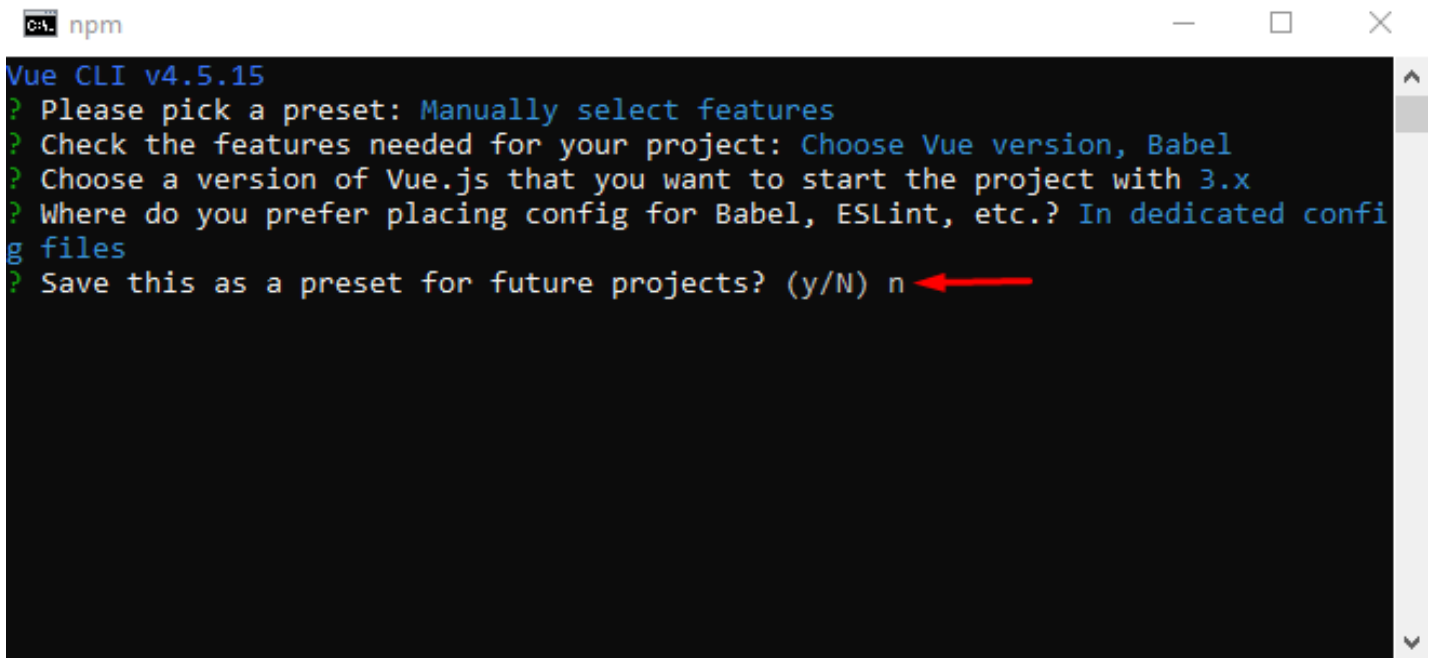
Select row 'In dedicated config files'

Click 'Enter'



Write 'n'

Click 'Enter'



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

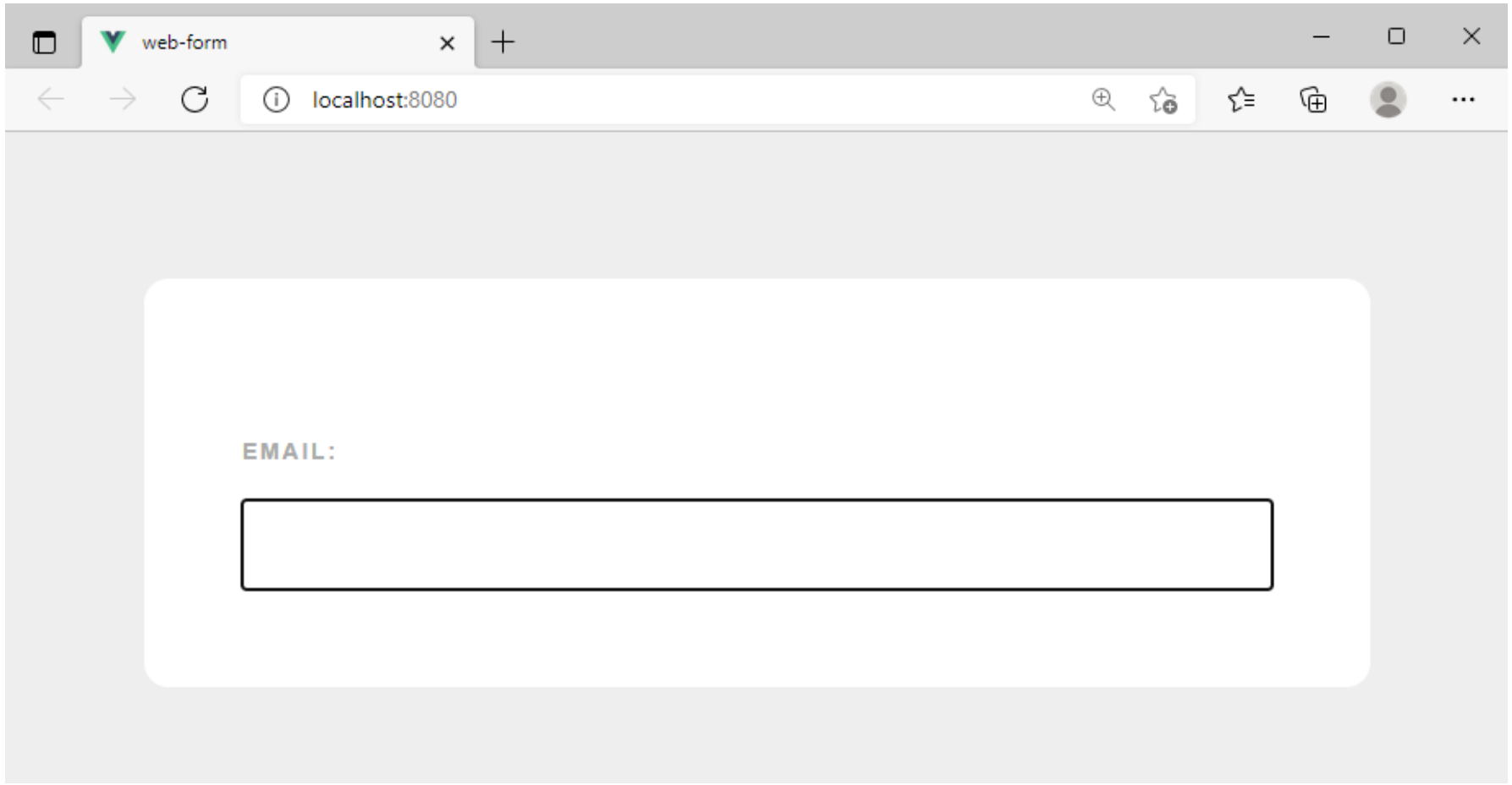
App.vue

```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

```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/

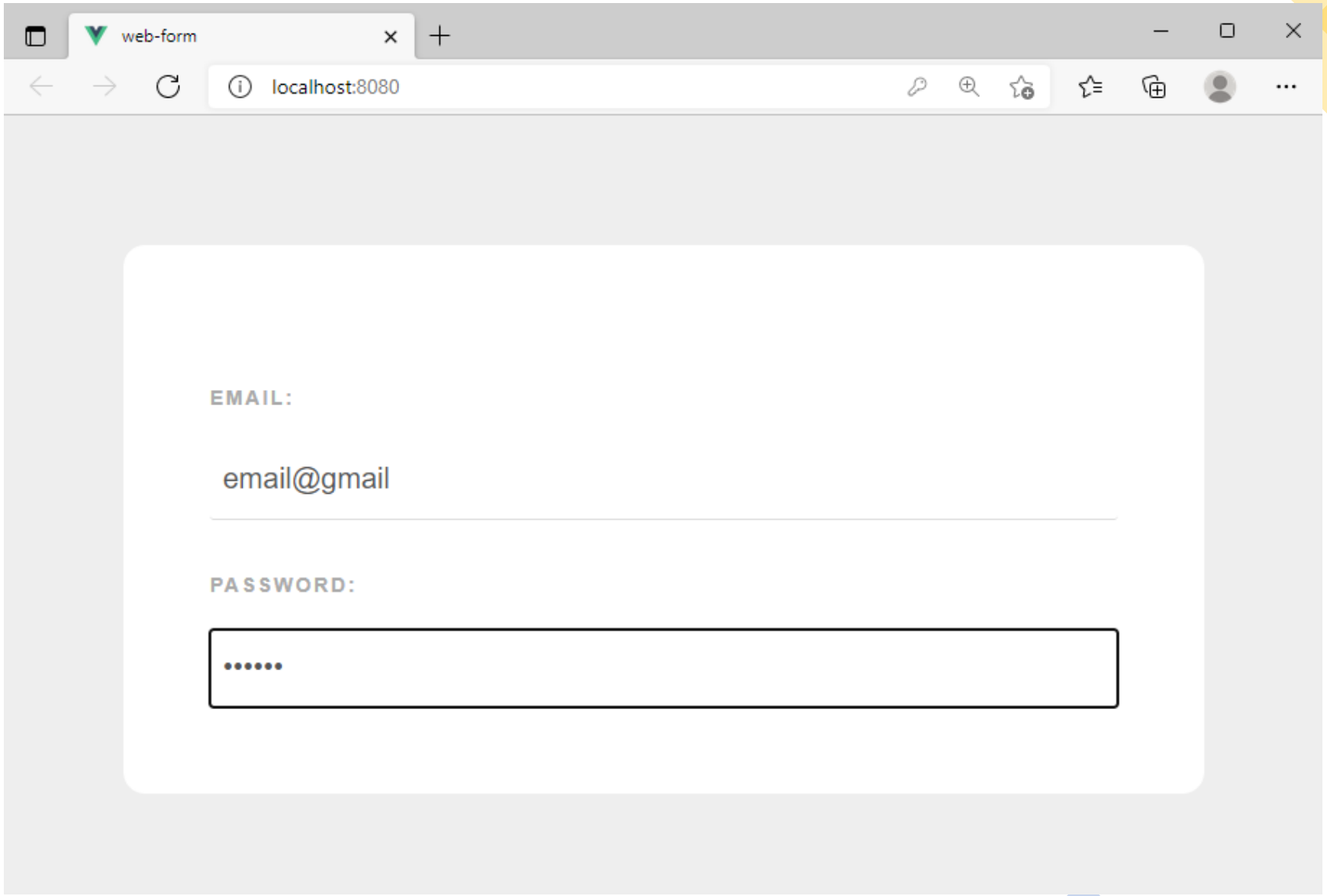


2-Way Data Binding

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>

  </form>
</template>

<script>
export default {

  data() {
    return {
      email: '',
      password: '',
    }
  }

}
</script>

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

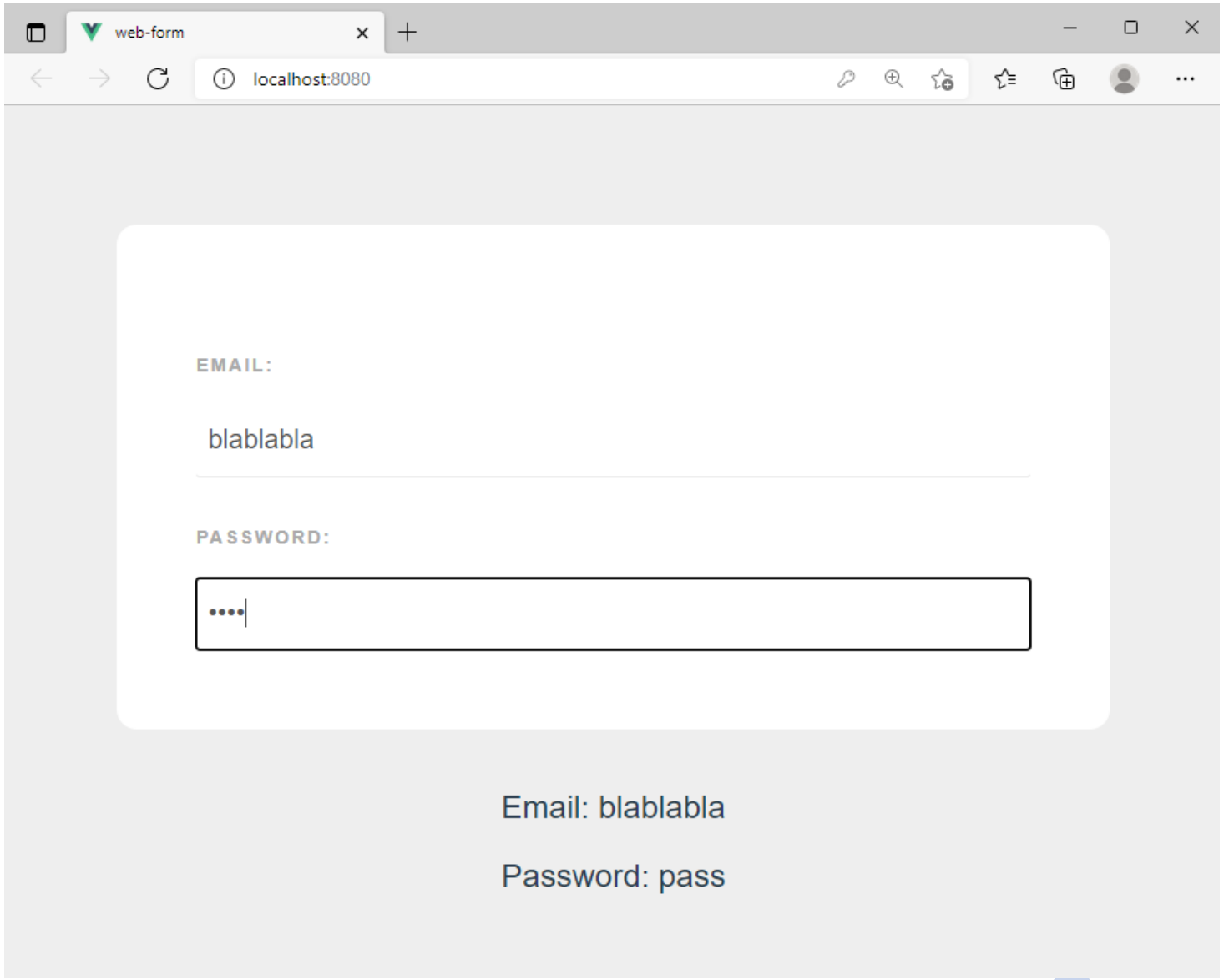
Add code


web-form
localhost:8080
EMAIL:
email@gmail
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>
  </form>

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

</template>

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

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

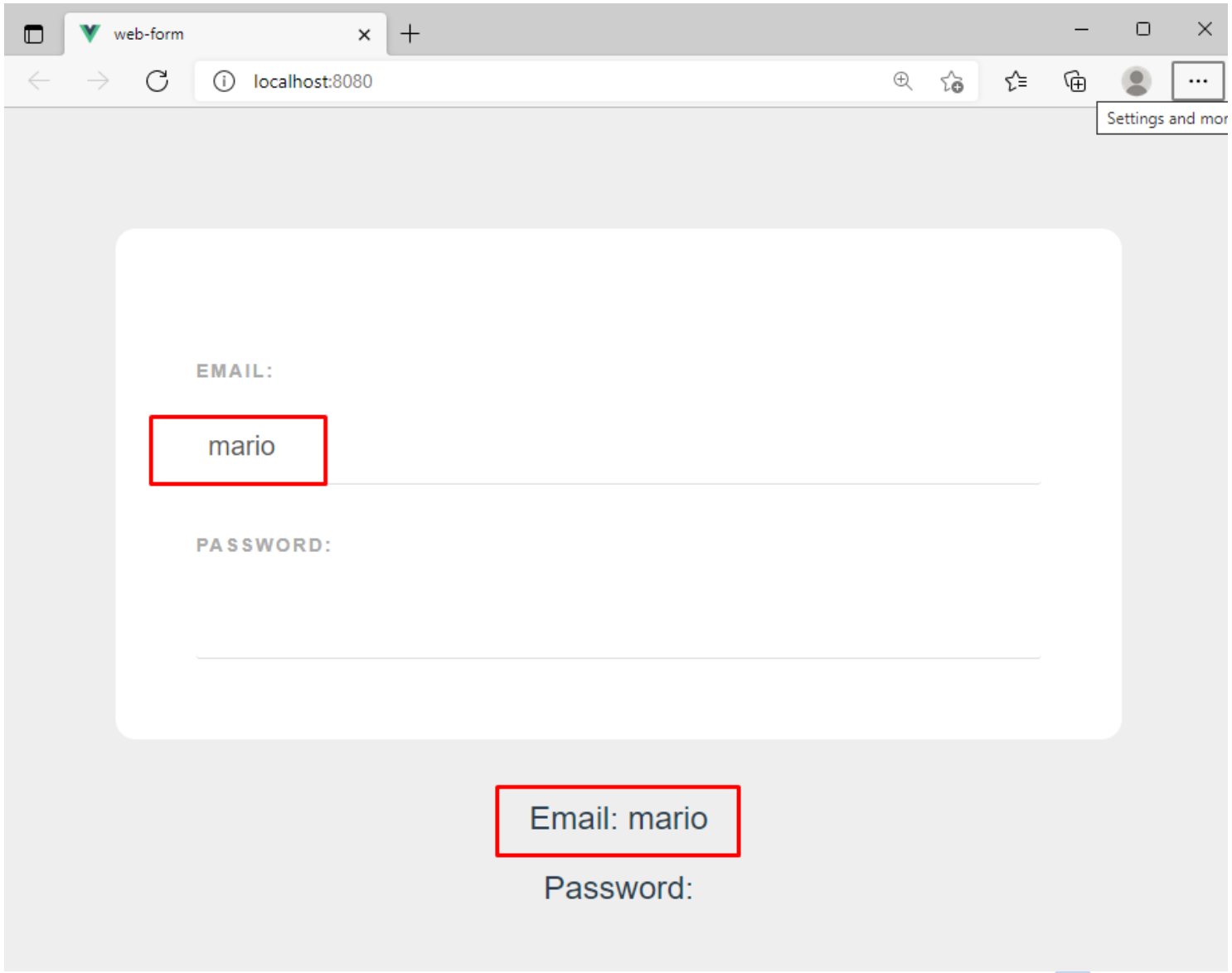
Add code


web-form
localhost:8080
EMAIL:
blablabla
PASSWORD:
••••
Email: blablabla
Password: pass

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>
  </form>

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

</template>

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

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

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

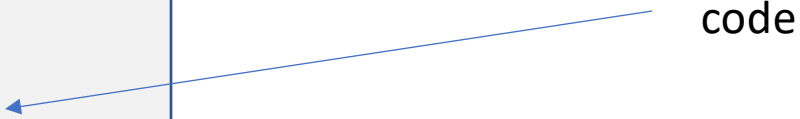
Add code

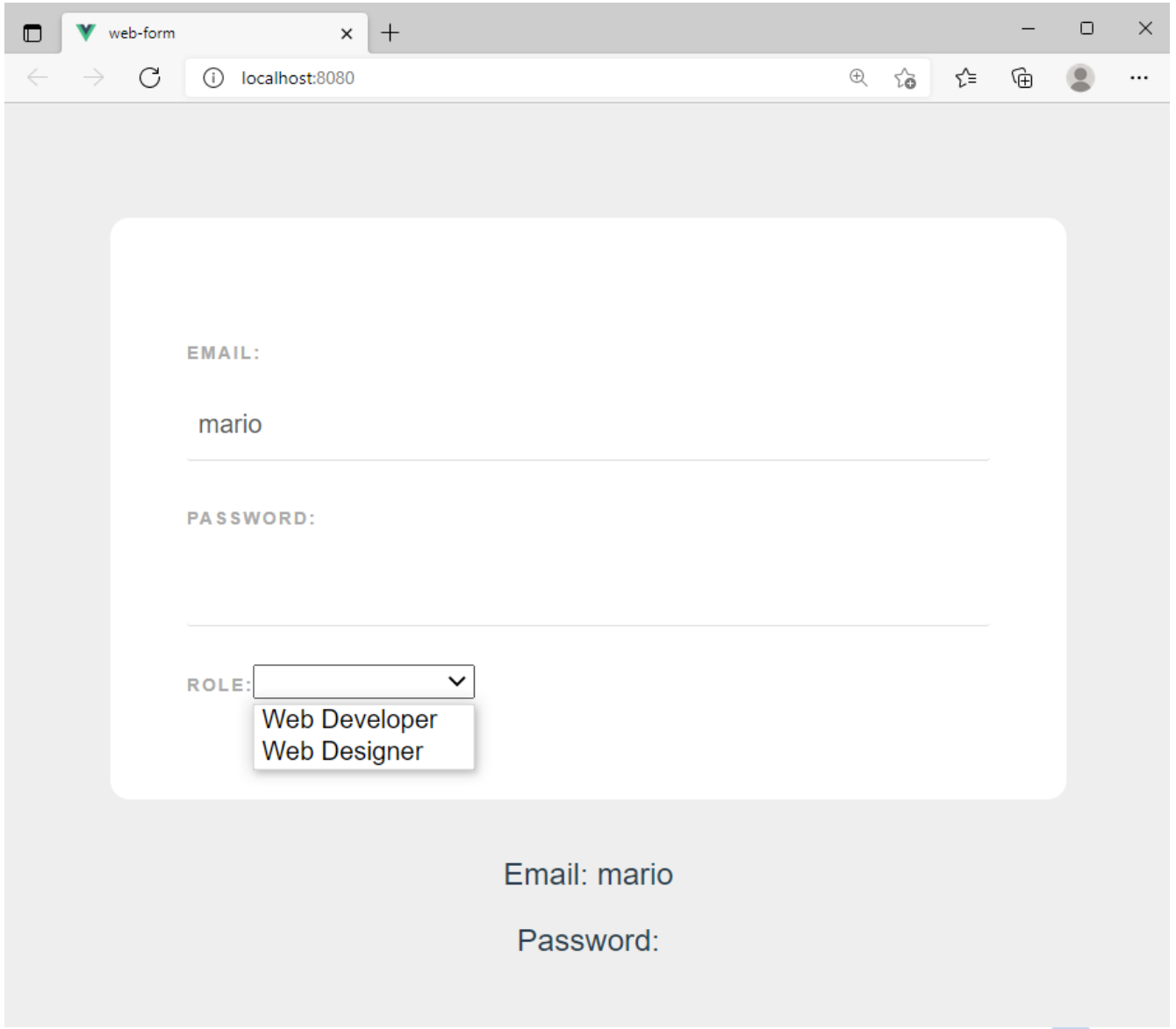

web-form
localhost:8080
Settings and mor
EMAIL:
mario
PASSWORD:
Email: mario
Password:

Select Boxes

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>
      <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>
```

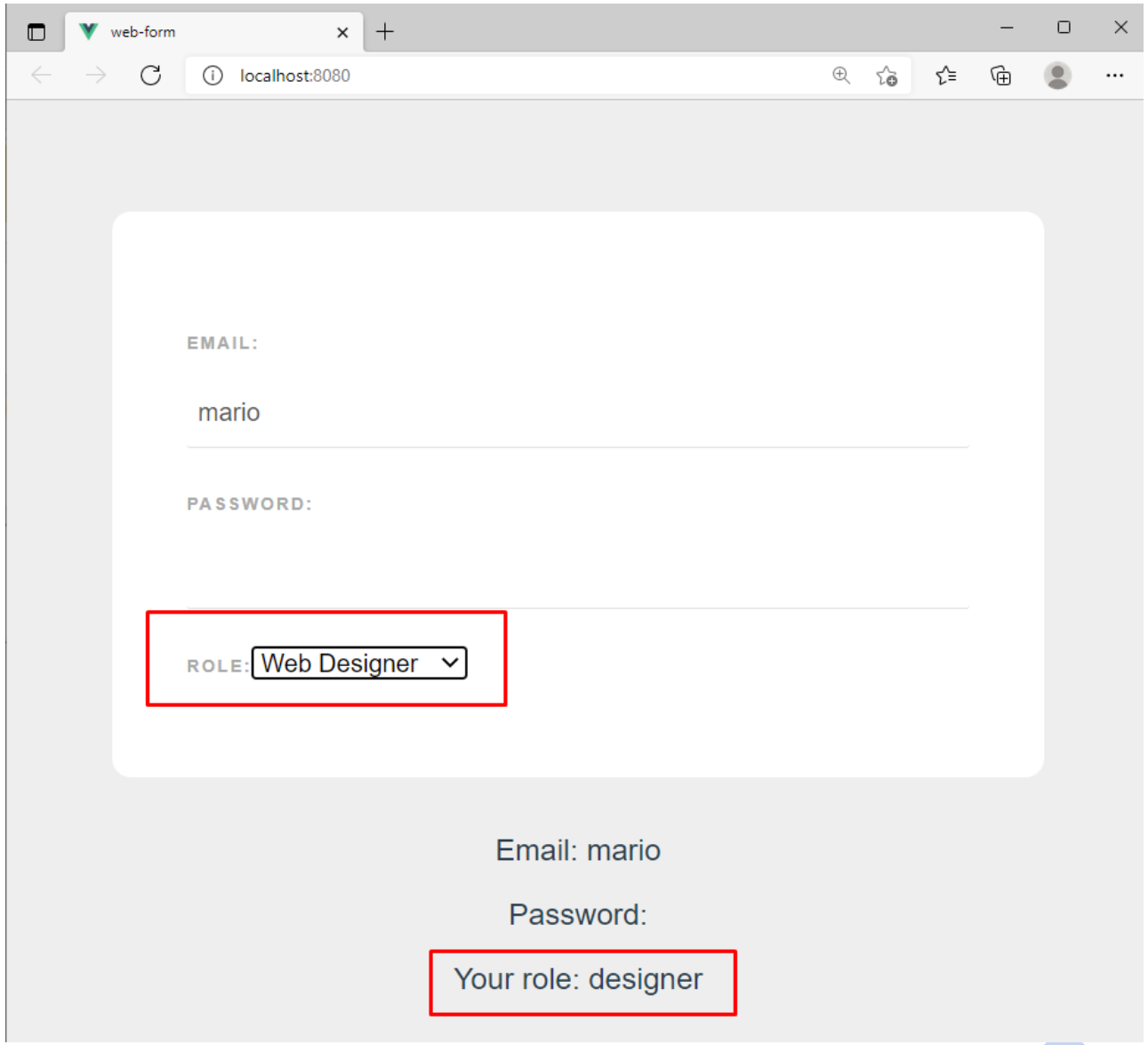



web-form
localhost:8080
EMAIL:
mario
PASSWORD:
ROLE:
Web Developer
Web Designer
Email: mario
Password:

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>
```

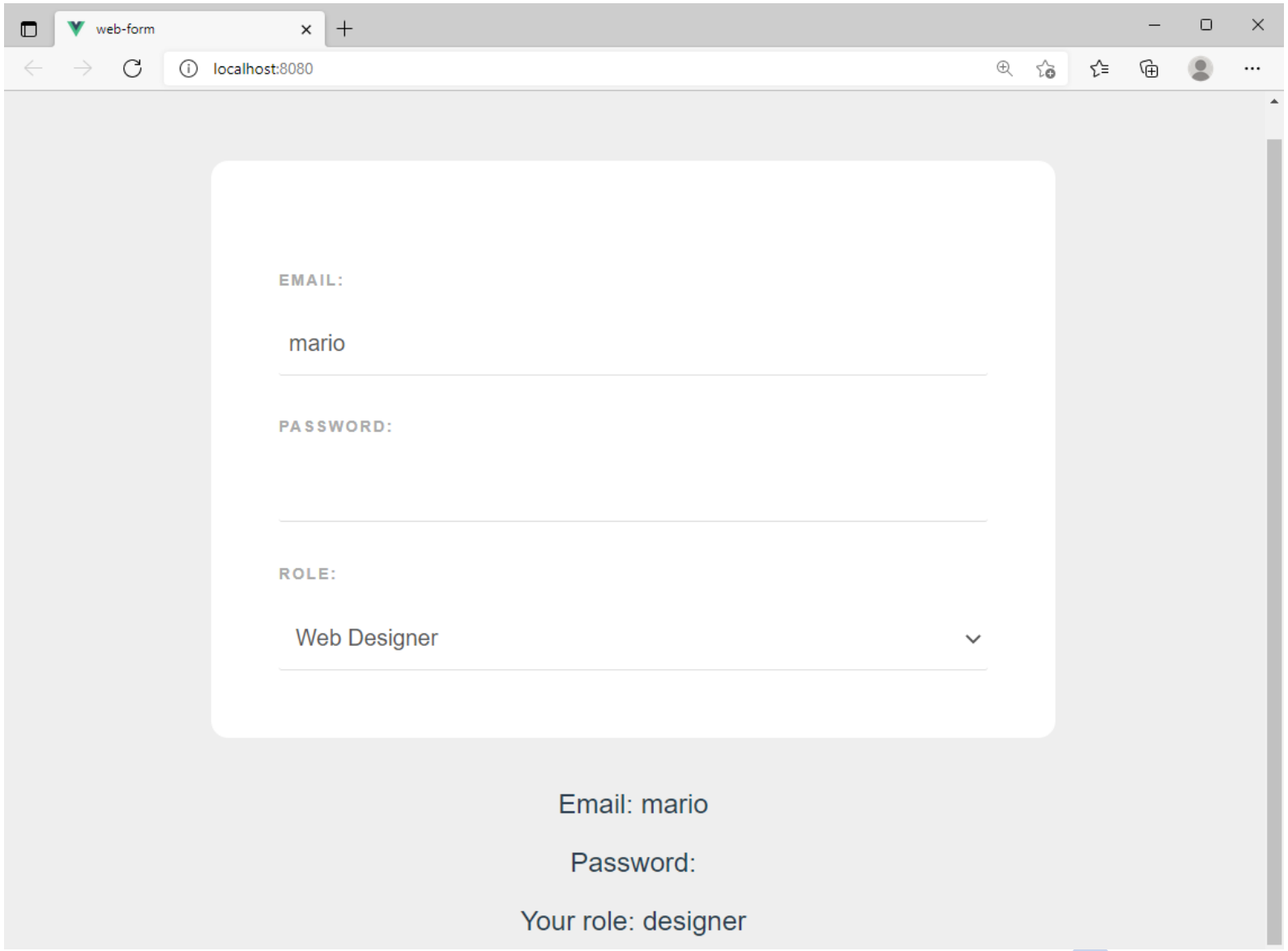
Add code


web-form
localhost:8080
EMAIL:
mario
PASSWORD:
ROLE:
Web Designer
Email: mario
Password:
Your role: designer

Edit file SignupForm.vue

```
<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

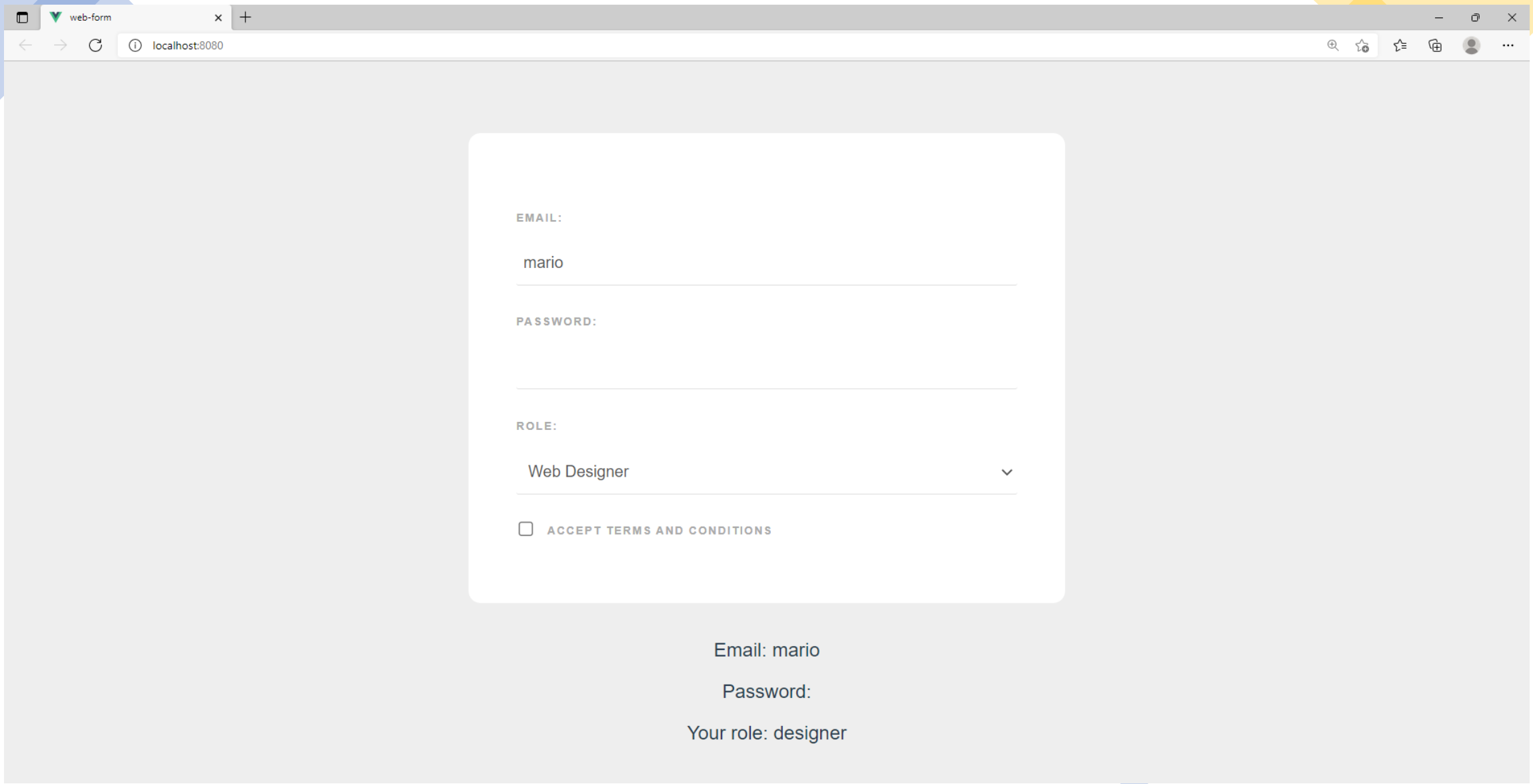

web-form
localhost:8080
EMAIL:
mario
PASSWORD:
ROLE:
Web Designer
Email: mario
Password:
Your role: designer

Checkboxes

Edit file SignupForm.vue

```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>

    <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>
```

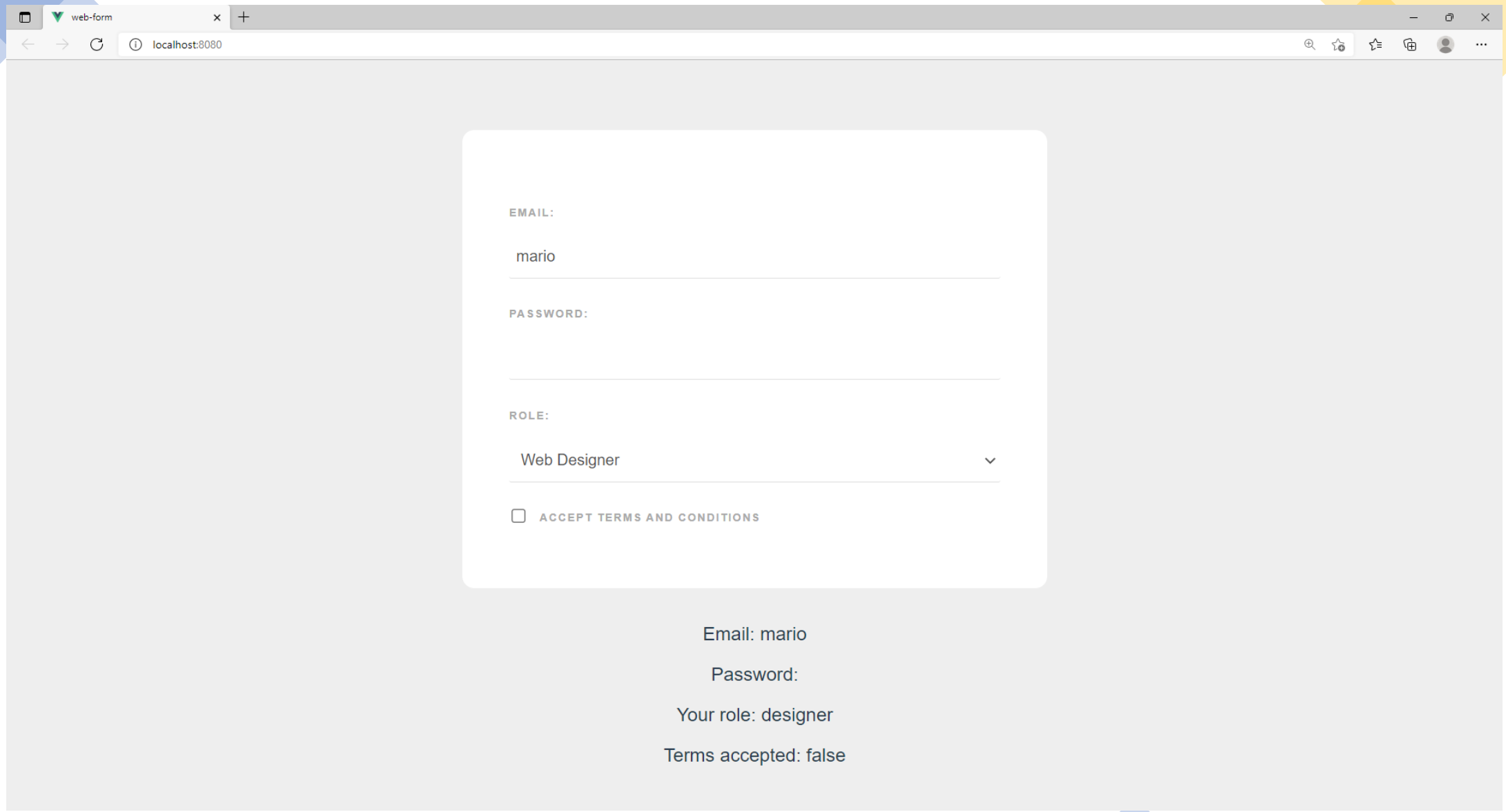
Add code


web-form
localhost:8080
EMAIL:
mario
PASSWORD:
ROLE:
Web Designer
ACCEPT TERMS AND CONDITIONS
Email: mario
Password:
Your role: designer

Edit file SignupForm.vue

```
<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>
```

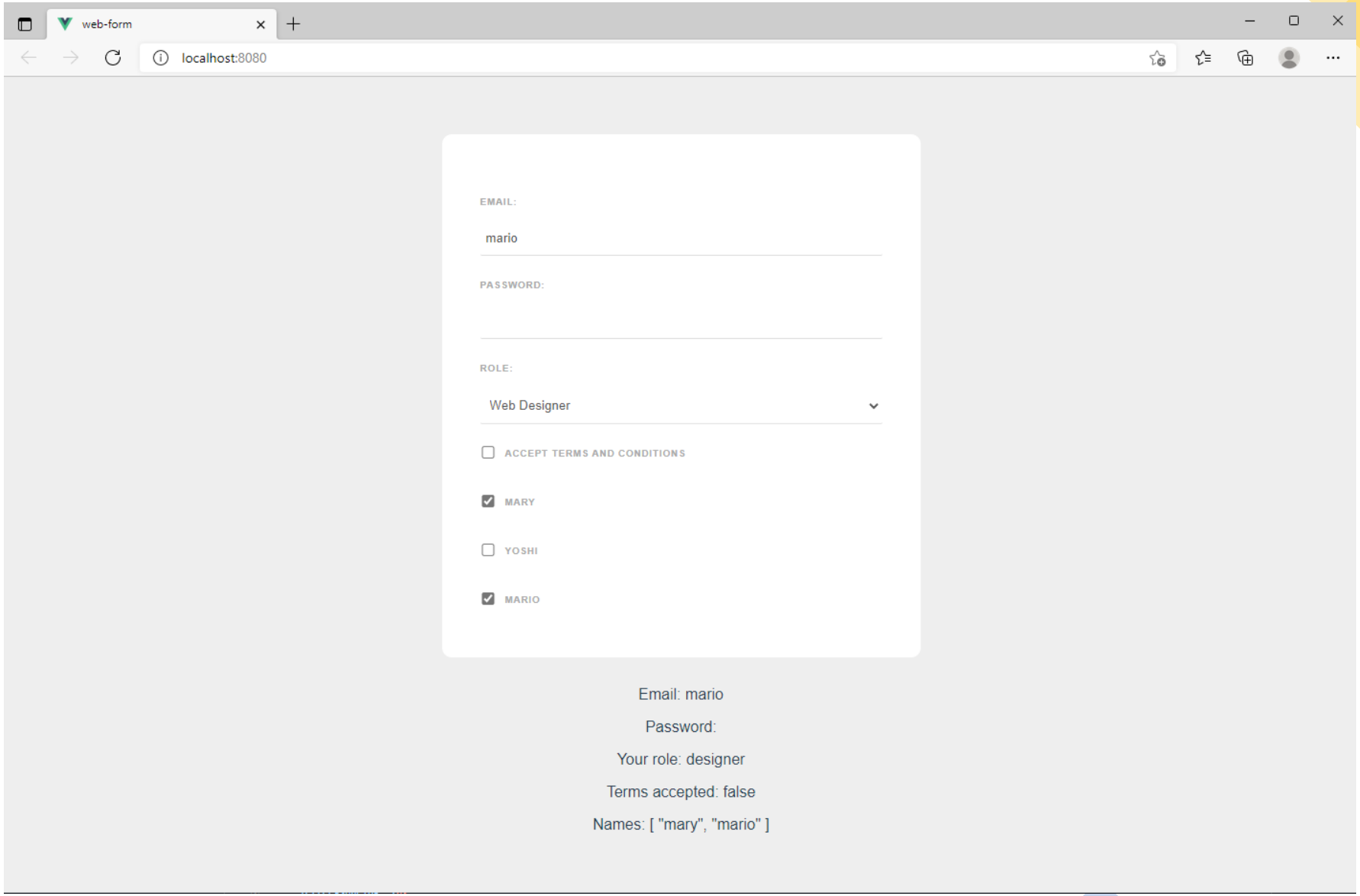
Add code


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

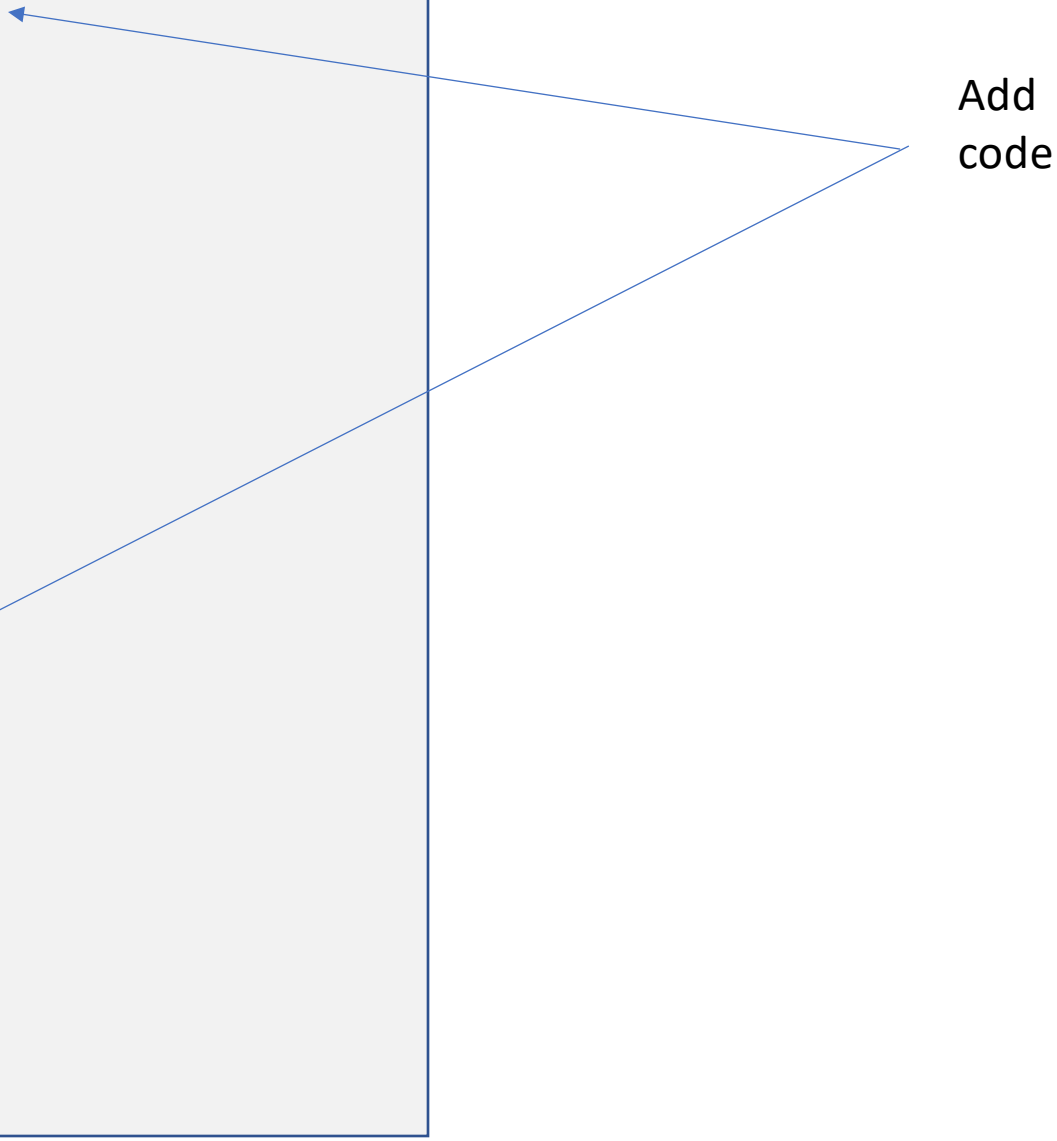
```
<template>
...
    <div>
      <input type="checkbox" value="mary" v-model="names">
      <label>mary</label>
    </div>
    <div>
      <input type="checkbox" value="yoshi" v-model="names">
      <label>yoshi</label>
    </div>
    <div>
      <input type="checkbox" value="mario" v-model="names">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

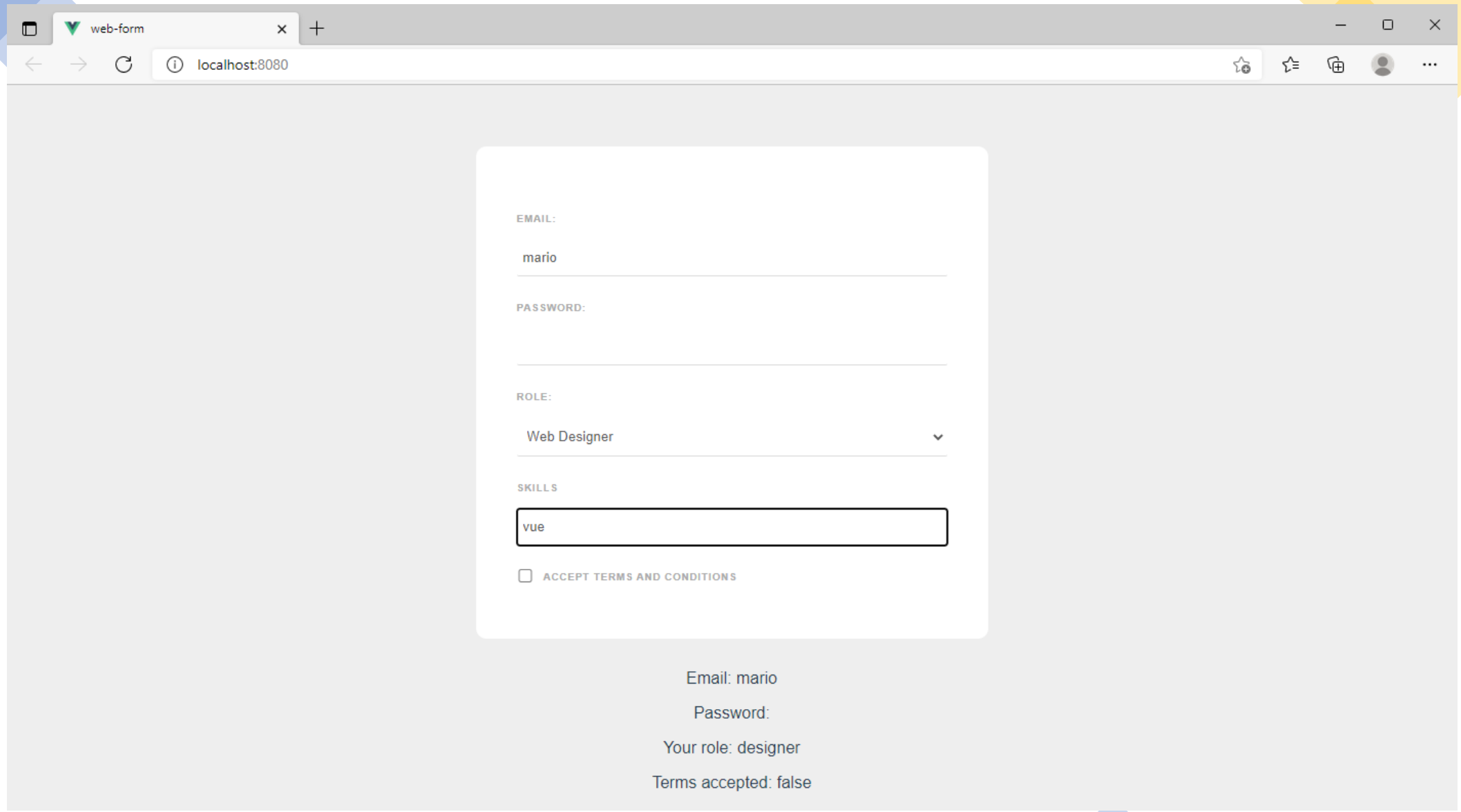
Remove code

Keyboard Events

Edit file SignupForm.vue

```
<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>
```

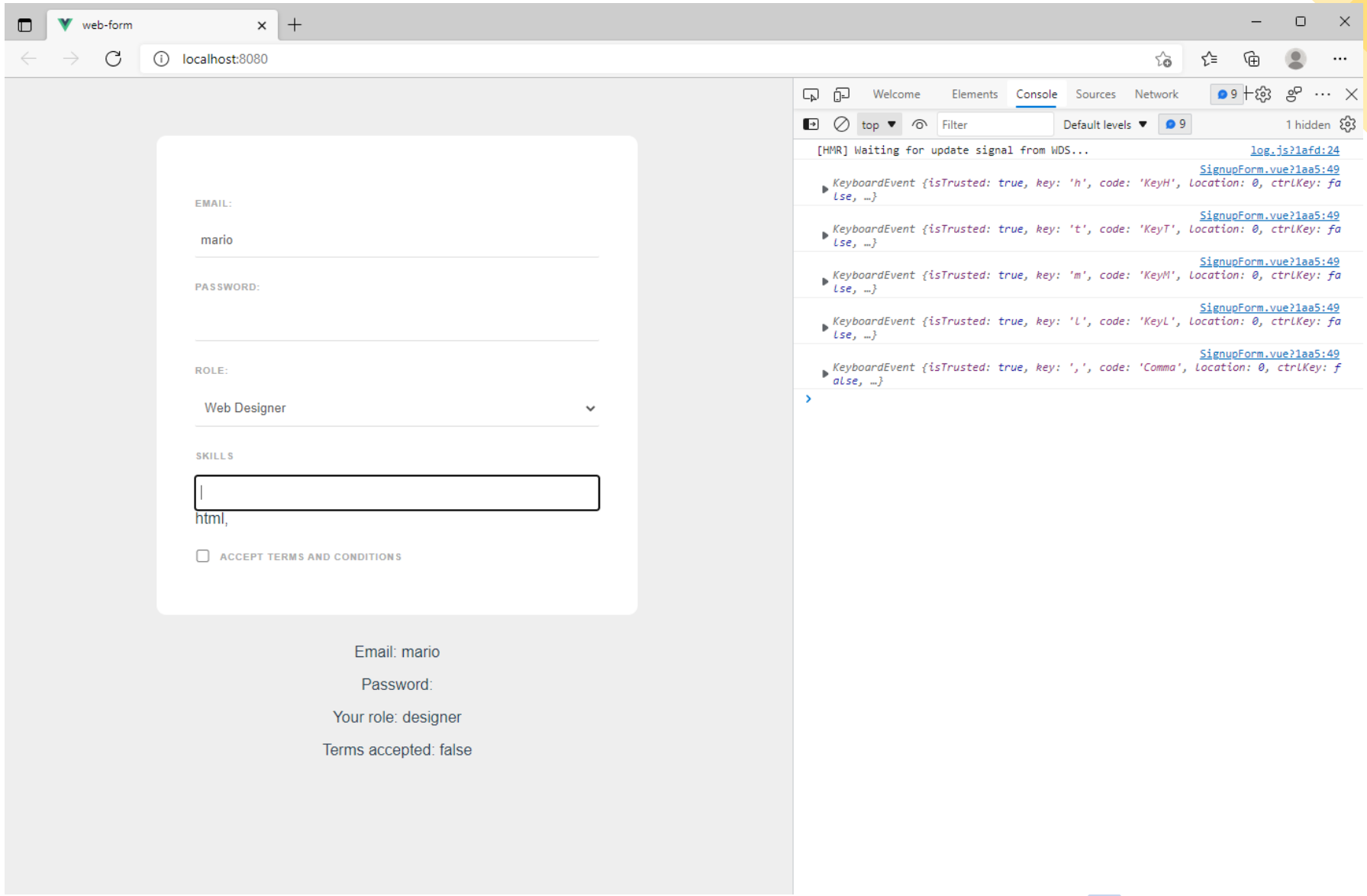



web-form
localhost:8080
EMAIL:
mario
PASSWORD:
ROLE:
Web Designer
SKILLS
vue
ACCEPT TERMS AND CONDITIONS
Email: mario
Password:
Your role: designer
Terms accepted: false

Edit file SignupForm.vue

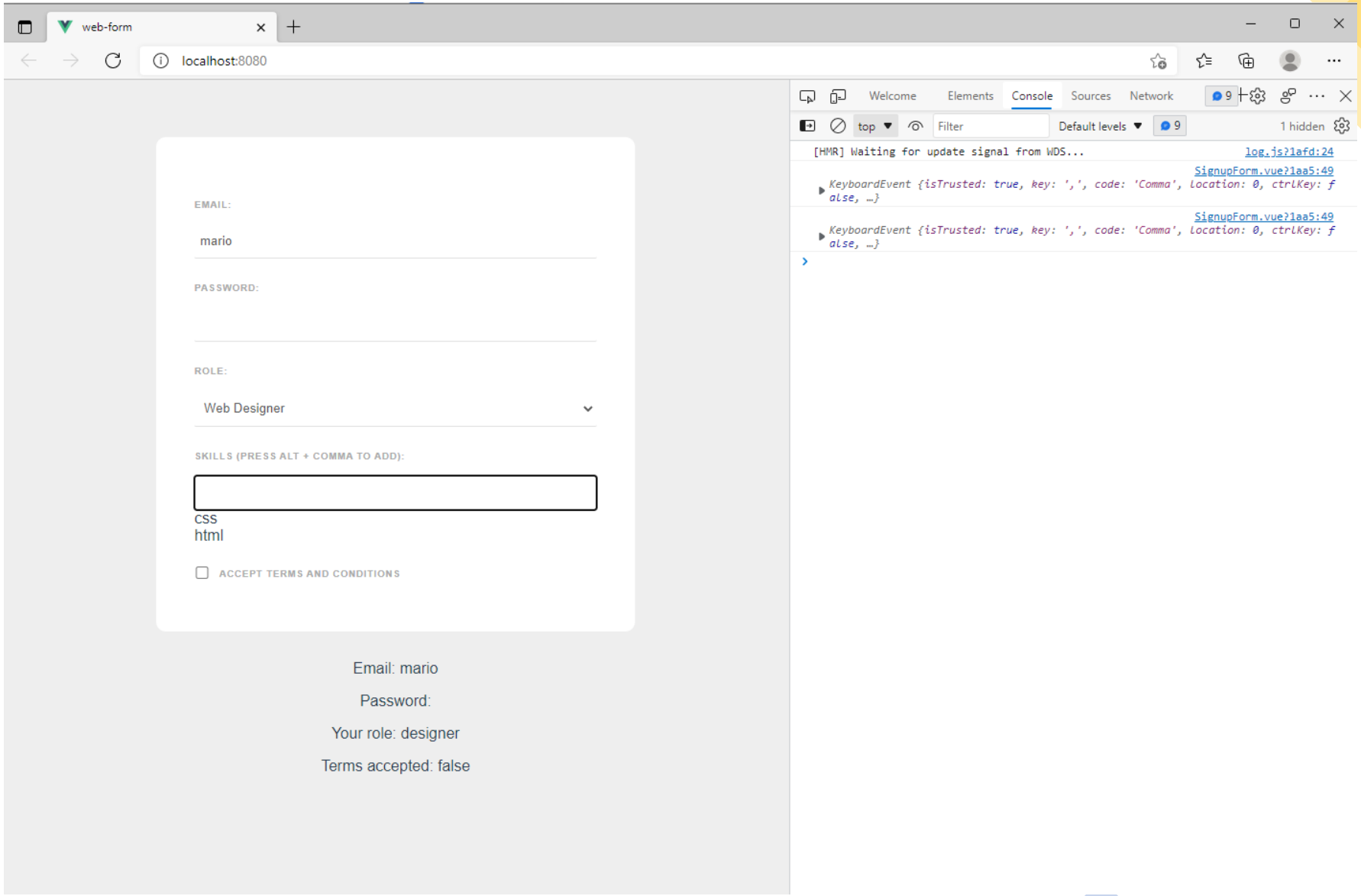
```
<template>
  <form>
...
    <label>Skills</label>
    <input type="text" v-model="tempSkill" @keyup="addSkill">
    <div v-for="skill in skills" :key="skill" class="pill">
      {{ skill }}
    </div>

    <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
Welcome
Elements
Console
Sources
Network
top
Filter
Default levels
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, …}
KeyboardEvent {isTrusted: true, key: 't', code: 'KeyT', location: 0, ctrlKey: false, …}
KeyboardEvent {isTrusted: true, key: 'm', code: 'KeyM', location: 0, ctrlKey: false, …}
KeyboardEvent {isTrusted: true, key: 'l', code: 'KeyL', location: 0, ctrlKey: false, …}
KeyboardEvent {isTrusted: true, key: ',', code: 'Comma', location: 0, ctrlKey: false, …}

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">
      {{ 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>
```


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
top
Filter
Default levels
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, …}

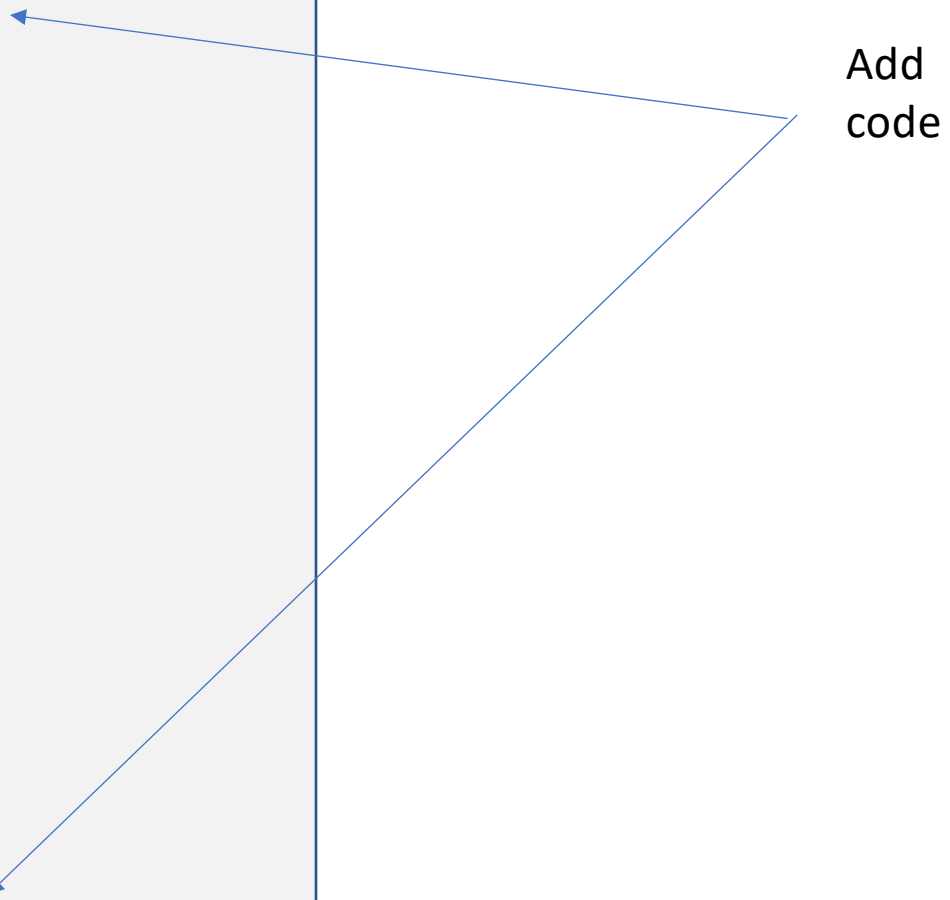
Challenge

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>
```

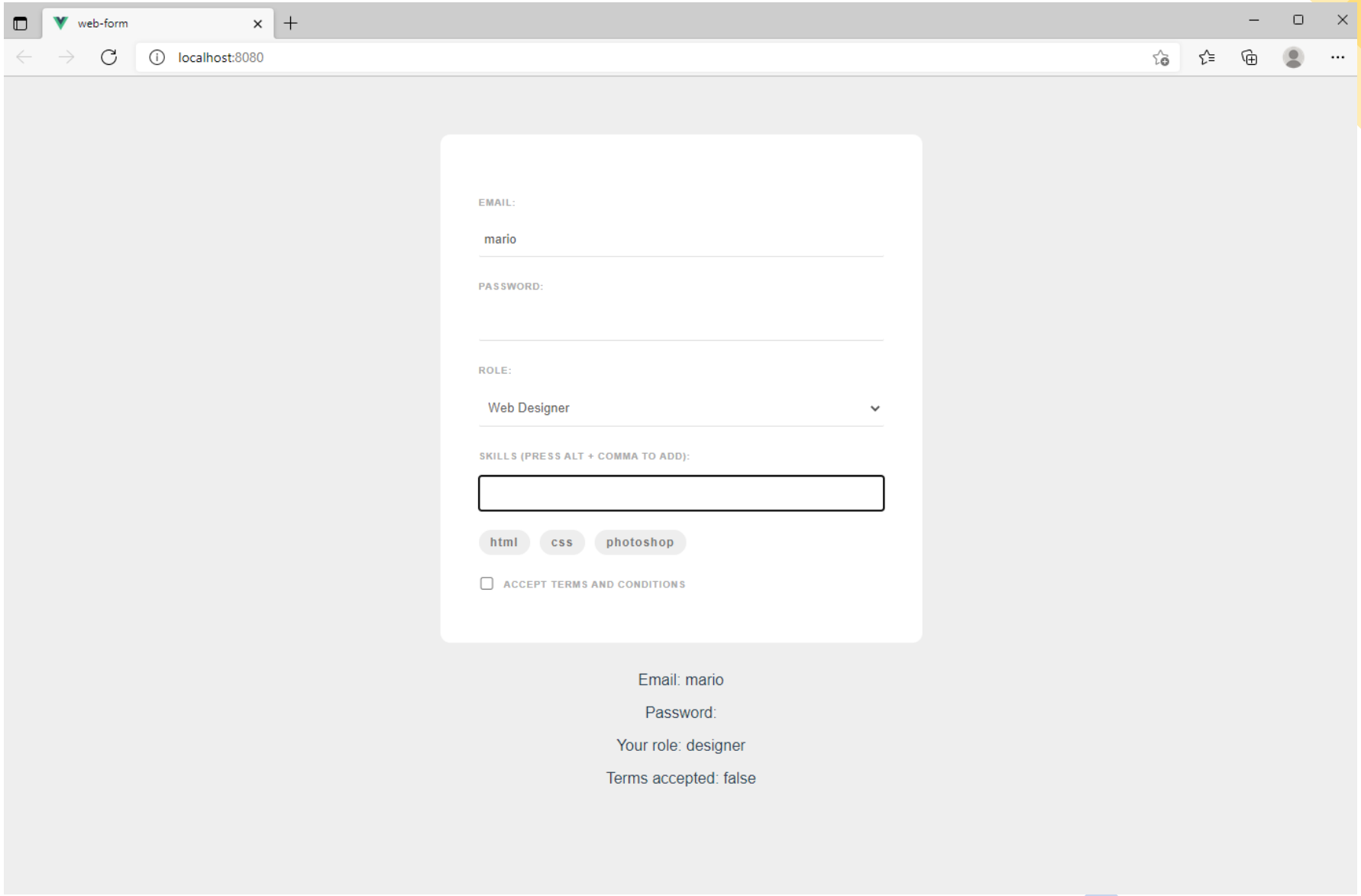


Edit file SignupForm.vue

```
<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>
```


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

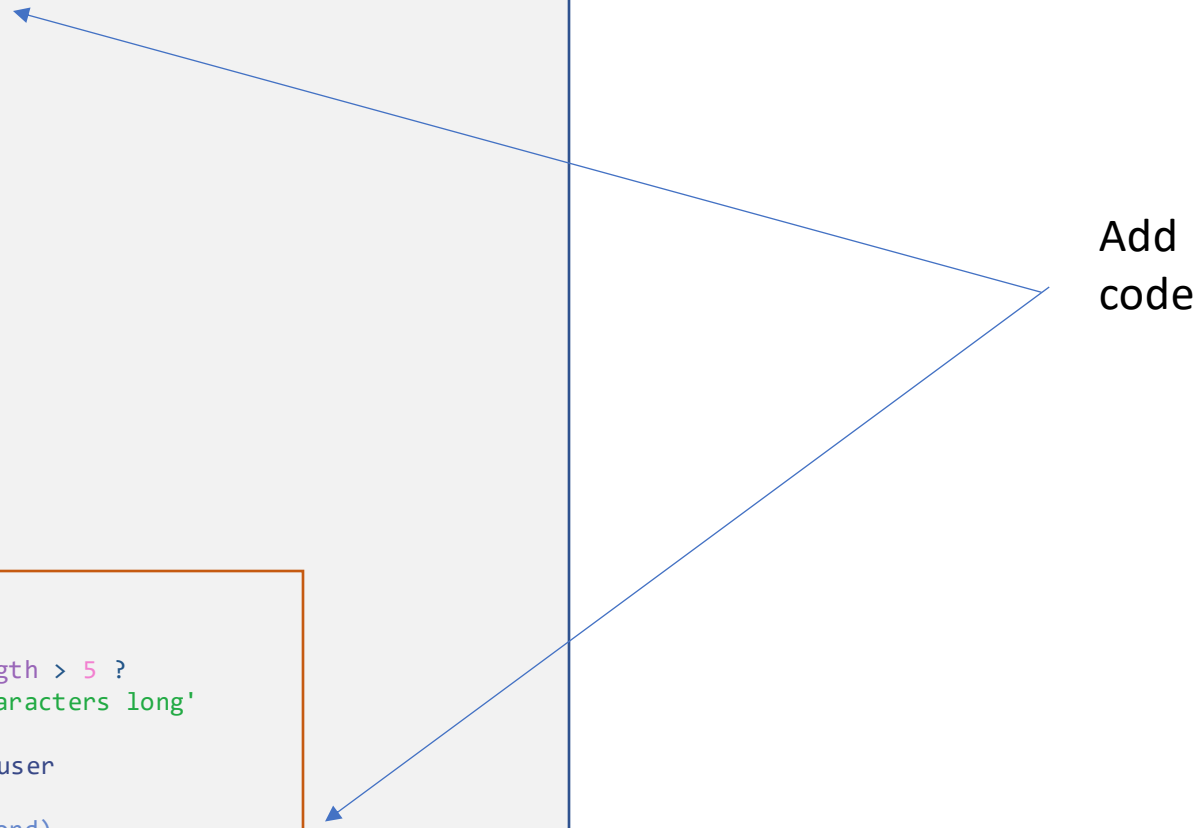
SKILLS (PRESS ALT + COMMA TO ADD):

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>
```



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

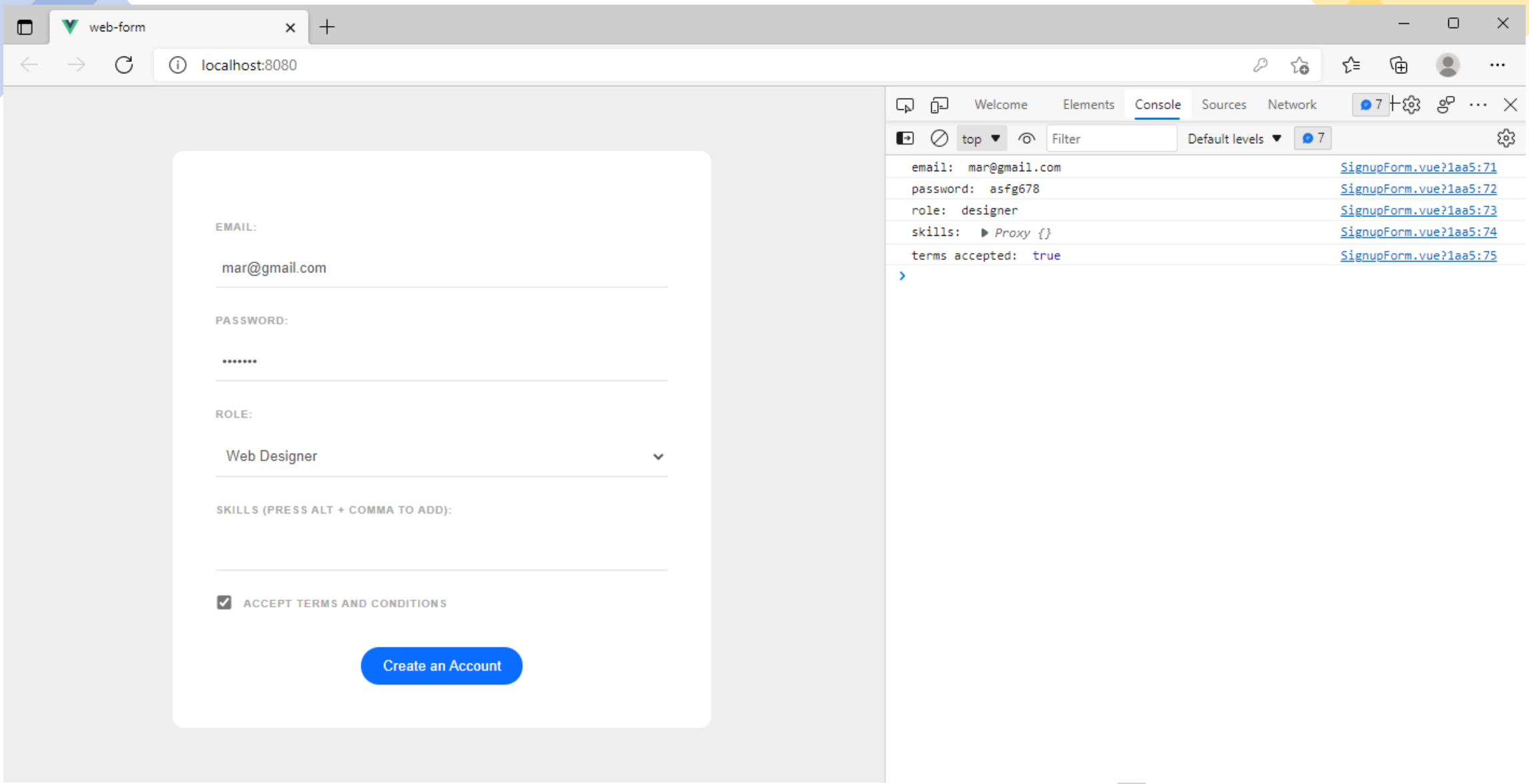
ROLE:

Web Designer

SKILLS (PRESS ALT + COMMA TO ADD):

ACCEPT TERMS AND CONDITIONS

Create an Account


web-form
localhost:8080
EMAIL:
mar@gmail.com
PASSWORD:
•••••••
ROLE:
Web Designer
SKILLS (PRESS ALT + COMMA TO ADD):
ACCEPT TERMS AND CONDITIONS
Create an Account
Welcome
Elements
Console
Sources
Network
top
Filter
Default levels
email: mar@gmail.com SignupForm.vue?1aa5:71
password: asfg678 SignupForm.vue?1aa5:72
role: designer SignupForm.vue?1aa5:73
skills: ▶ Proxy {} SignupForm.vue?1aa5:74
terms accepted: true SignupForm.vue?1aa5:75