

App.module.ts

```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';
import { FormsModule } from '@angular/forms';

import { AppComponent } from './app.component';

@NgModule({
  declarations: [
    AppComponent
  ],
  imports: [
    BrowserModule,
    FormsModule,
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

App.component.ts

```
import { Component, ViewChild } from '@angular/core';
import { NgForm } from '@angular/forms';

@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent {
  @ViewChild('f', { static: false }) signupForm: NgForm;
  defaultQuestion = 'teacher';
  answer = '';
  genders = ['male', 'female'];
  user = {
    username: '',
    email: '',
  }
```

```

        secretQuestion: '',
        answer: '',
        gender: ''
    };
    submitted = false;

    suggestUserName() {
        const suggestedName = 'Superuser';
        // this.signupForm.setValue({
        //     userData: {
        //         username: suggestedName,
        //         email: ''
        //     },
        //     secret: 'pet',
        //     questionAnswer: '',
        //     gender: 'male'
        // });
        this.signupForm.form.patchValue({
            userData: {
                username: suggestedName
            }
        });
    }

    // onSubmit(form: NgForm) {
    //     console.log(form);
    // }

    onSubmit() {
        this.submitted = true;
        this.user.username = this.signupForm.value.userData.username;
        this.user.email = this.signupForm.value.userData.email;
        this.user.secretQuestion = this.signupForm.value.secret;
        this.user.answer = this.signupForm.value.questionAnswer;
        this.user.gender = this.signupForm.value.gender;

        this.signupForm.reset();
    }
}

```

App.component.html

```
<div class="container">
  <div class="row">
    <div class="col-xs-12 col-sm-10 col-md-8 col-sm-offset-1
col-md-offset-2">
      <form (ngSubmit)="onSubmit()" #f="ngForm">
        <div
          id="user-data"
          ngModelGroup="userData"
          #userData="ngModelGroup">
          <div class="form-group">
            <label for="username">Username</label>
            <input
              type="text"
              id="username"
              class="form-control"
              ngModel
              name="username"
              required>
          </div>
          <button
            class="btn btn-default"
            type="button"
            (click)="suggestUserName()">Suggest an Username</button>
          <div class="form-group">
            <label for="email">Mail</label>
            <input
              type="email"
              id="email"
              class="form-control"
              ngModel
              name="email"
              required
              email
              #email="ngModel">
            <span class="help-block" *ngIf="!email.valid &&
email.touched">Please enter a valid email!</span>
          </div>
        </div>
      </div>
    </div>
  </div>
```

```

    <p *ngIf="!userData.valid && userData.touched">User Data is
invalid!</p>
    <div class="form-group">
      <label for="secret">Secret Questions</label>
      <select
        id="secret"
        class="form-control"
        [ngModel]="defaultQuestion"
        name="secret">
        <option value="pet">Your first Pet?</option>
        <option value="teacher">Your first teacher?</option>
      </select>
    </div>
    <div class="form-group">
      <textarea
        name="questionAnswer"
        rows="3"
        class="form-control"
        [(ngModel)]="answer"></textarea>
    </div>
    <p>Your reply: {{ answer }}</p>
    <div class="radio" *ngFor="let gender of genders">
      <label>
        <input
          type="radio"
          name="gender"
          ngModel
          [value]="gender"
          required>
        {{ gender }}
      </label>
    </div>
    <button
      class="btn btn-primary"
      type="submit"
      [disabled]="!f.valid">Submit</button>
  </form>
</div>
</div>
<hr>

```

```
<div class="row" *ngIf="submitted">
  <div class="col-xs-12">
    <h3>Your Data</h3>
    <p>Username: {{ user.username }}</p>
    <p>Mail: {{ user.email }}</p>
    <p>Secret Question: Your first {{ user.secretQuestion }}</p>
    <p>Answer: {{ user.answer }}</p>
    <p>Gender: {{ user.gender }}</p>
  </div>
</div>
</div>
```

App.component.css

```
.container {
  margin-top: 30px;
}

input.ng-invalid.ng-touched {
  border: 1px solid red;
}
```