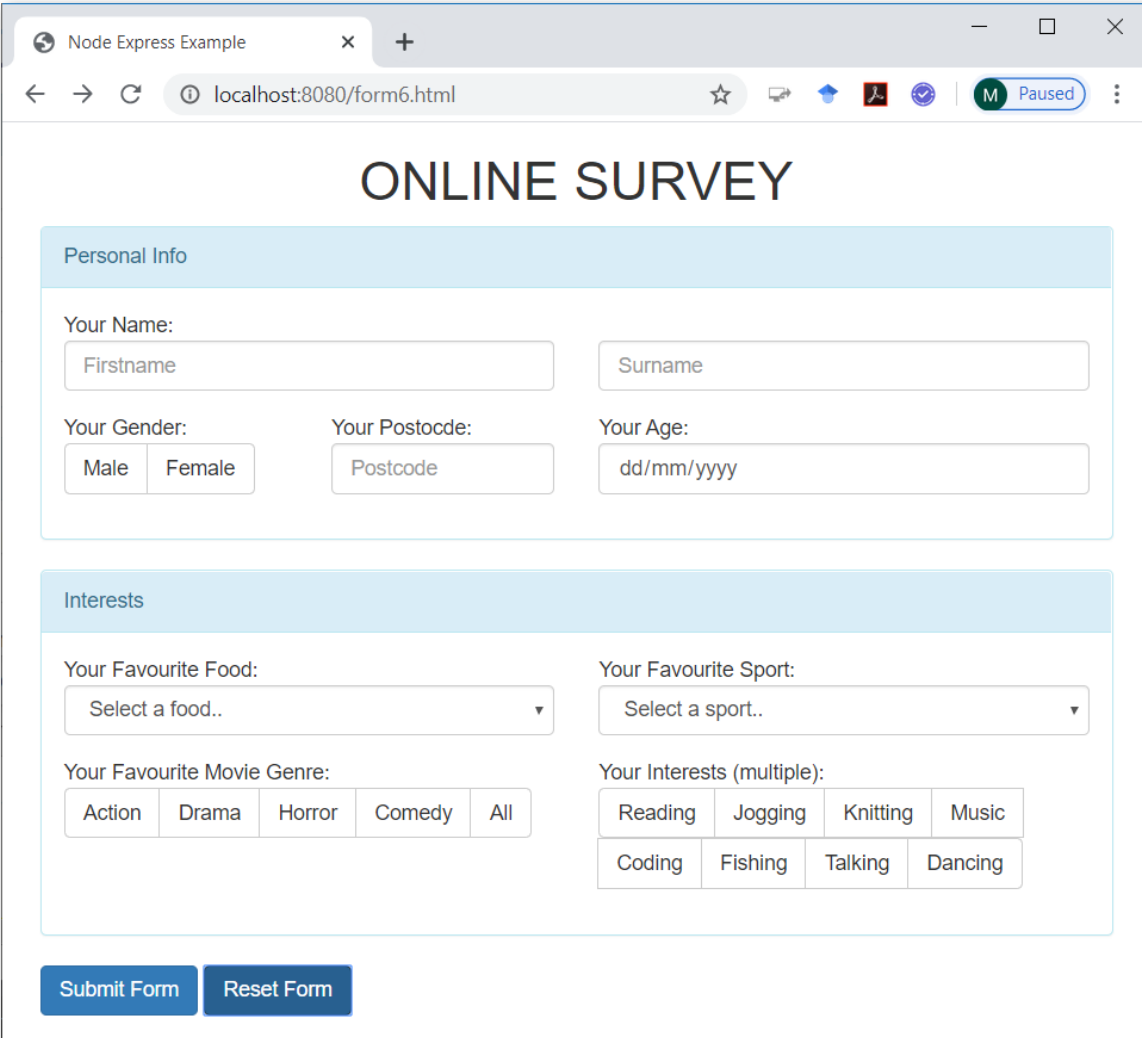


# 9.2C: Create a Response Page

## Tasks

You are provided with an online form that implements a simple *Online Survey*. The `html` code for this form is provided at the end of this document and a screenshot of the form is shown below:



The screenshot shows a web browser window with the title 'Node Express Example' and the address bar showing 'localhost:8080/form6.html'. The page content is an online survey form titled 'ONLINE SURVEY'.

**Personal Info**

Your Name:

Your Gender:   Your Postcode:  Your Age:

**Interests**

Your Favourite Food:  Your Favourite Sport:

Your Favourite Movie Genre:

Your Interests (multiple):

Task9.2.1 Example form layout

You are required to implement the express server code to process the content of the submitted survey form and to return a formatted response. This would be implemented in *Node.js* application program (i.e., a `.js` file).

When the form is completed by the user it can then be submitted to the server for processing. A sample of a completed form is shown below:

Node Express Example

localhost:8080/form6.html

## ONLINE SURVEY

### Personal Info

Your Name:

Michael Hobbs

Your Gender: Male Female

Your Postcode: 3216

Your Age: 01/01/1970

### Interests

Your Favourite Food: Pasta

Your Favourite Sport: AFL

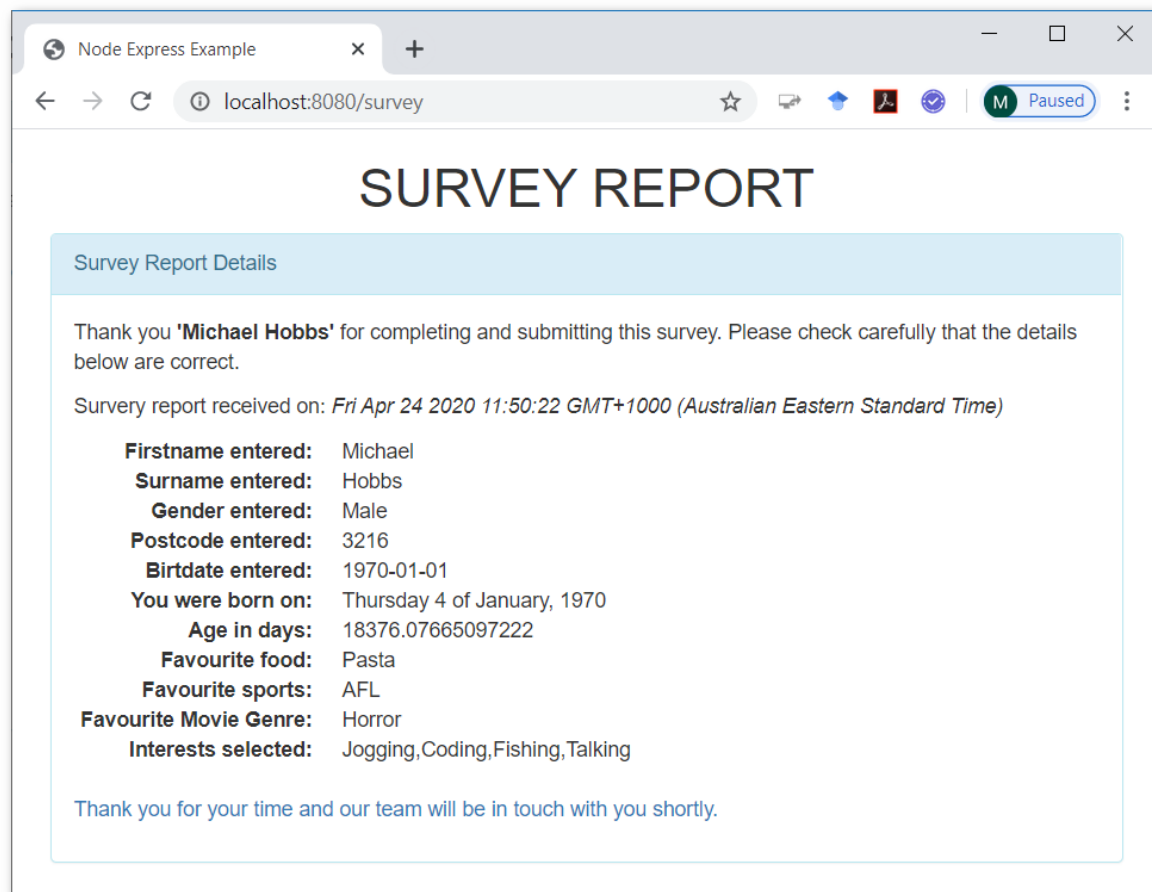
Your Favourite Movie Genre: Action Drama Horror Comedy All

Your Interests (multiple): Reading Jogging Knitting Music Coding Fishing Talking Dancing

Submit Form Reset Form

Task9.2.2 Example completed form

The *Node.js* application program should process the data submitted in the form and return a formatted response like that shown in the screenshot below:



### Task9.2.3 Example survey response

**NOTE:** The processing of the form should include:

1. The current date/time the form was received.
2. The difference in 'days' between the current date and the submitted Birthday date.

## Hints

Some things to consider in completing this task:

- In preparing the response page, consider using the data list (`dl/dt/dd`) html fields, along with the *Bootstrap* `panel card` component, as used in the client-side survey form.
- In the server code, subtracting one `Date` object from another `Date` object will return the difference in *milliseconds*. To convert this to **days**, just multiply this by the appropriate factors.

## What will you submit?

You should submit:

- Source code of the *Node.js* file (i.e., the `.js` file).
- Screenshot of the browser window showing the form web page with entered data.
- Screenshot of the browser window showing response message after the **"Submit"** button is clicked.

## Supporting Code

### Online Survey Front-end Code

This code is also available through Ontrack.

```
<!DOCTYPE html>
<html lang="en">

<head>
  <title>Node Express Example</title>
  <meta charset="utf-8">
  <meta name="viewport"
    content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <title>Feedback</title>
  <!-- Bootstrap CSS -->
  <link rel="stylesheet"
    href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
    integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpsL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
    crossorigin="anonymous">
</head>

<body>
  <div class="container" id="myForm">
    <h1 class="text-center">ONLINE SURVEY</h1>
    <form id="surveyForm" action="/survey" method="post">
      <div class="card my-3">
        <div class="card-header bg-info text-white">Personal Info</div>
        <div class="card-body">

          <div class="row">
            <div class="form-group col-sm-6">
              Your Name:<br>
              <input type="text" class="form-control" id="Firstname"
                name="fname" placeholder="Firstname">
            </div>
            <div class="form-group col-sm-6">
              <br>
              <input type="text" class="form-control" id="Surname"
                name="sname" placeholder="Surname">
            </div>
          </div>

          <div class="row">
            <div class="form-group col-sm-3">
```

```
Your Gender:<br />
<div class="btn-group btn-group-toggle" data-toggle="buttons"
  id="myButtonGrp">
  <label class="btn btn-outline-secondary">
    <input type="radio" autocomplete="off"
      name="gender" value="Male" id="rbselector" />
    Male
  </label>
  <label class="btn btn-outline-secondary">
    <input type="radio" autocomplete="off"
      name="gender" value="Female"
      id="rbselector" /> Female
  </label>
</div>
</div>

<div class="form-group col-sm-3">
  Your Postcode:<br>
  <input type="number" class="form-control"
    placeholder="Postcode" name="postcode" size="4"
    min="0000" max="9999">
</div>

<div class="form-group col-sm-6">
  Your Age:<br />
  <input type="date" class="form-control" name="bday"
    id="bday" min="1900-01-01" max="2020-12-31">
</div>
</div>
</div>
</div>

<div class="card my-3">
  <div class="card-header bg-info text-white">Interests</div>
  <div class="card-body">
    <div class="row">
      <div class="form-group col-sm-6">
        Your Favourite Food:<br>
        <select class="form-control" name="food">
          <option value="none" selected disabled>Select a
            food..</option>
          <option value="Pizza">Pizza</option>
          <option value="Vegatables">Vegatables</option>
          <option value="Hamburgers">Hamburgers</option>
          <option value="Pasta">Pasta</option>
          <option value="Sushi">Sushi</option>
          <option value="Kebabs">Kebabs</option>
          <option value="Curry">Curry</option>
        </select>
      </div>
      <div class="form-group col-sm-6">
        Your Favourite Sport:<br>
        <select class="form-control" name="sport">
          <option value="none" selected disabled>Select a
            sport..</option>
          <option value="AFL">AFL</option>
          <option value="Tennis">Tennis</option>
          <option value="Soccer">Soccer</option>
          <option value="Cricket">Cricket</option>
          <option value="Rugby">Rugby</option>
          <option value="Athletics">Athletics</option>
        </select>
      </div>
    </div>
  </div>
</div>
```

```
<option value="Swimming">Swimming</option>
</select>
</div>
</div>

<div class="row">
<div class="form-group col-sm-6">
Your Favourite Movie Genre:<br>
<div class="btn-group btn-group-toggle d-flex flex-wrap" data-toggle="buttons"
name="genre" id="myButtonGrp">
<label class="btn btn-outline-secondary">
<input type="radio" autocomplete="off"
name="genre" value="Action"
id="rbselector" />Action
</label>
<label class="btn btn-outline-secondary">
<input type="radio" autocomplete="off"
name="genre" value="Drama"
id="rbselector" />Drama
</label>
<label class="btn btn-outline-secondary">
<input type="radio" autocomplete="off"
name="genre" value="Horror"
id="rbselector" />Horror
</label>
<label class="btn btn-outline-secondary">
<input type="radio" autocomplete="off"
name="genre" value="Comedy"
id="rbselector" />Comedy
</label>
<label class="btn btn-outline-secondary">
<input type="radio" autocomplete="off"
name="genre" value="All"
id="rbselector" />All
</label>
</div>
</div>
<div class="form-group col-sm-6">
Your Interests (multiple):<br>

<div class="btn-group btn-group-toggle d-flex flex-wrap" data-toggle="buttons"
name="interests" id="myButtonGrp">
<label class="btn btn-outline-secondary">
<input type="checkbox" autocomplete="off"
name="interests" value="Reading"
id="rbselector" />Reading
</label>
<label class="btn btn-outline-secondary">
<input type="checkbox" autocomplete="off"
name="interests" value="Jogging"
id="rbselector" />Jogging
</label>
<label class="btn btn-outline-secondary">
<input type="checkbox" autocomplete="off"
name="interests" value="Knitting"
id="rbselector" />Knitting
</label>
<label class="btn btn-outline-secondary">
<input type="checkbox" autocomplete="off"
name="interests" value="Music"
```

```

        id="rbselector" />Music
    </label>
    <label class="btn btn-outline-secondary">
        <input type="checkbox" autocomplete="off"
            name="interests" value="Coding"
            id="rbselector" />Coding
    </label>
    <label class="btn btn-outline-secondary">
        <input type="checkbox" autocomplete="off"
            name="interests" value="Fishing"
            id="rbselector" />Fishing
    </label>
    <label class="btn btn-outline-secondary">
        <input type="checkbox" autocomplete="off"
            name="interests" value="Talking"
            id="rbselector" />Talking
    </label>
    <label class="btn btn-outline-secondary">
        <input type="checkbox" autocomplete="off"
            name="interests" value="Dancing"
            id="rbselector" />Dancing
    </label>
</div>
</div>
</div>
</div>

</div>
</div>
<button name="SubmitForm" class="btn btn-primary" type="submit">Submit
    Form</button>
<button name="ResetForm" class="btn btn-primary" type="reset">Reset
    Form</button>
</form>
</div>

<!-- Optional JavaScript -->
<!-- THE JAVASCRIPT CODE -->
<script>
    // Code to parse document to find button elements (checkboxes)
    // and force them to reset to initial value/cleared when the 'Reset'
    // button is applied.
    // Based on code by: hnrch02 (https://github.com/twbs/bootstrap/issues/14148)
    $('form').each(function () {
        var $form = $(this)
        var $buttons = $form.find('[data-toggle="buttons"] .btn input')

        $buttons.each(function () {
            var $this = $(this)
            $this.data('initialState', $this.prop('checked'))
        })

        $form.on('reset', function () {
            $buttons.each(function () {
                var $this = $(this)
                var wasActive = $this.data('initialState')

                $this.prop('checked', wasActive).parent().toggleClass('active', wasActive)
            })
        })
    })

```

```
</script>

<!-- jQuery first, then Popper.js, then Bootstrap JS -->
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
  integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
  crossorigin="anonymous"></script>
<script
  src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
  integrity="sha384-9/reFTGAW83EW2RDu2S0VKA1Zap3H66lZ81PoYlFhbGU+6BZp6G7niu735Sk7lN"
  crossorigin="anonymous"></script>
<script
  src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
  integrity="sha384-B4gtljrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV"
  crossorigin="anonymous"></script>
</body>

</html>
```