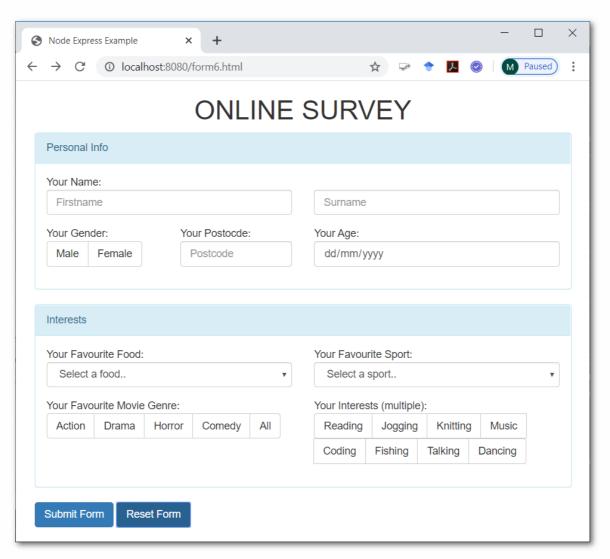
9.2C: Create a Response Page

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:

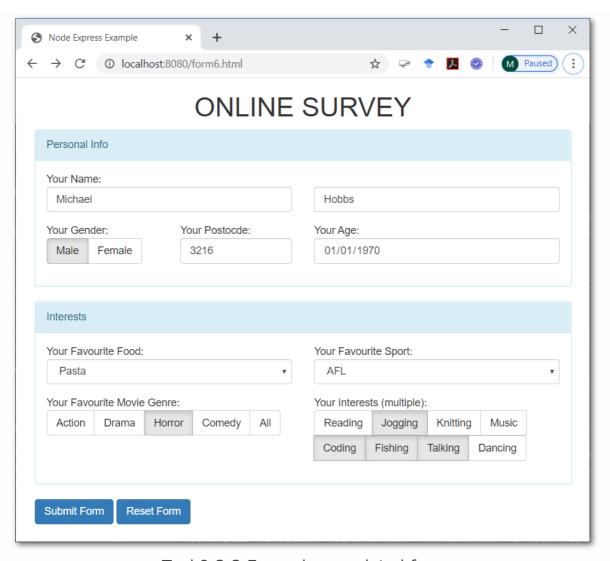


Task9.2.1 Example form layout

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:

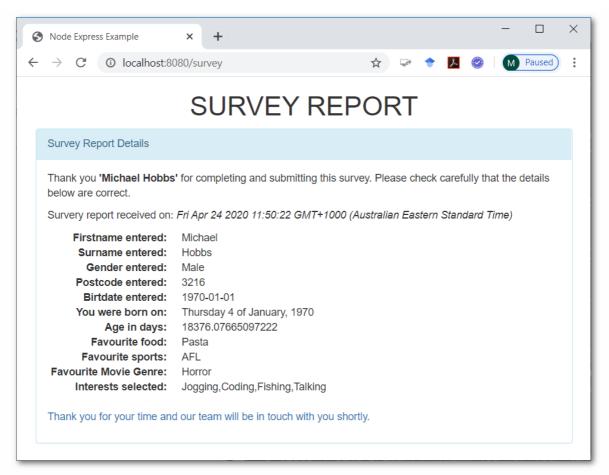
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Task9.2.2 Example completed form

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:

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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?

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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"</pre>
 content="width=device-width, initial-scale=1, shrink-to-fit=no">
<title>Feedback</title>
<!-- Bootstrap CSS -->
 <link rel="stylesheet"</pre>
 href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
 integrity="sha384-JcKb8q3iqJ61qNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+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"</pre>
       name="fname" placeholder="Firstname">
      </div>
      <div class="form-group col-sm-6">
      <input type="text" class="form-control" id="Surname"</pre>
        name="sname" placeholder="Surname">
     </div>
     <div class="row">
      <div class="form-group col-sm-3">
```

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```
Your Gender:<br />
    <div class="btn-group btn-group-toggle" data-toggle="buttons"</pre>
     id="myButtonGrp">
     <label class="btn btn-outline-secondary">
     <input type="radio" autocomplete="off"</pre>
      name="gender" value="Male" id="rbselector" />
     Male
     </label>
     <label class="btn btn-outline-secondary">
      <input type="radio" autocomplete="off"</pre>
      name="gender" value="Female"
      id="rbselector" /> Female
    </label>
   </div>
   </div>
   <div class="form-group col-sm-3">
   Your Postocde: <br>
   <input type="number" class="form-control"</pre>
    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"</pre>
    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 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 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 value="AFL">AFL</option>
     <option value="Tennis">Tennis
     <option value="Soccer">Soccer</option>
     <option value="Cricket">Cricket</option>
     <option value="Rugby">Rugby</option>
    <option value="Athletics">Athletics
```

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```
<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"</pre>
   name="genre" id="myButtonGrp">
   <label class="btn btn-outline-secondary">
    <input type="radio" autocomplete="off"</pre>
    name="genre" value="Action"
     id="rbselector" />Action
   </label>
   <label class="btn btn-outline-secondary">
    <input type="radio" autocomplete="off"</pre>
     name="genre" value="Drama"
     id="rbselector" />Drama
   </label>
   <label class="btn btn-outline-secondary">
    <input type="radio" autocomplete="off"</pre>
     name="genre" value="Horror"
     id="rbselector" />Horror
   </label>
   <label class="btn btn-outline-secondary">
    <input type="radio" autocomplete="off"</pre>
     name="genre" value="Comedy"
     id="rbselector" />Comedy
   </label>
   <label class="btn btn-outline-secondary">
    <input type="radio" autocomplete="off"</pre>
     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"</pre>
   name="interests" id="myButtonGrp">
   <label class="btn btn-outline-secondary">
    <input type="checkbox" autocomplete="off"</pre>
    name="interests" value="Reading"
     id="rbselector" />Reading
   </label>
   <label class="btn btn-outline-secondary">
    <input type="checkbox" autocomplete="off"</pre>
    name="interests" value="Jogging"
     id="rbselector" />Jogging
   </label>
   <label class="btn btn-outline-secondary">
    <input type="checkbox" autocomplete="off"</pre>
     name="interests" value="Knitting"
     id="rbselector" />Knitting
   </label>
   <label class="btn btn-outline-secondary">
    <input type="checkbox" autocomplete="off"</pre>
    name="interests" value="Music"
```

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```
id="rbselector" />Music
       </label>
       <label class="btn btn-outline-secondary">
        <input type="checkbox" autocomplete="off"</pre>
         name="interests" value="Coding"
         id="rbselector" />Coding
       </label>
       <label class="btn btn-outline-secondary">
        <input type="checkbox" autocomplete="off"</pre>
        name="interests" value="Fishing"
         id="rbselector" />Fishing
       </label>
       <label class="btn btn-outline-secondary">
        <input type="checkbox" autocomplete="off"</pre>
        name="interests" value="Talking"
         id="rbselector" />Talking
       </label>
       <label class="btn btn-outline-secondary">
        <input type="checkbox" autocomplete="off"</pre>
        name="interests" value="Dancing"
        id="rbselector" />Dancing
      </label>
      </div>
     </div>
    </div>
  </div>
  </div>
  <button name="SubmitForm" class="btn btn-primary" type="submit">Submit
  Form</but.ton>
  <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 inital 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)
   } )
  } )
```

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```
<!-- 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/reFTGAW83EW2RDu2SOVKaIzap3H661ZH81PoY1FhbGU+6BZp6G7niu735Sk7lN"
  crossorigin="anonymous"></script>
  <script
  src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
  integrity="sha384-B4gtljrGC7Jh4AgTPSdUtOBvf08shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV"
  crossorigin="anonymous"></script>
  </body>
</html>
```

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