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|  | Assignment 3 - Report |
|  |  |
|  | CSC1401 – Foundation Programming  11-02-2022 |
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# Project Contribution

Jarrod Keppel

* HTML for all sections
* Programmed functions for input section
* Pair programmed results section

Mal Evans

* Pair programmed results section
* Wrote test plan
* Scheduled meetings and recorded minutes
* Wrote team report

# Meeting Summary

* 19.02.2022 - Introductory meeting (Zoom)
  + Discussed current level of skills of each member and initial allocation of tasks  
    - Jarrod to work on Input section  
    - Mal to work on results section, team report
  + Discussed and agree on name conventions, indenting guidelines
* 23.01.22 – Meeting (Zoom)
  + Commenced discussion on testing plan
  + Reviewed current progress
* 31.02.22 – Meeting (Zoom)
  + Reviewed current progress
  + Agreed to defer work until post examination
* 7.02.22 – Meeting (Zoom)
  + Discussed strategy to get past roadblocks
    - Jarrod to review existing code for results section
* 9.02.22 – Meeting (Zoom)
  + Reviewed progress and agreed that operational code for the results section would not be achievable in the required timeframe
  + Agree that focus should be given to checking current working code to ensure compliance with agreed guidelines
* 10.02.22 – Meeting (Zoom)
  + Combined code and commenced review prior to submission
* 11.02.22 – Meeting (Zoom)
  + Reviewed progress of code and agreed to submit not fully completed
  + Reviewed and agreed on report content

# Test Plan – Record Input

## Test Plan

1. Validation of Given Name and Surname to confirm compliance to requirements.
   1. Required
   2. Non-empty
   3. Leading & trailing whitespaces trimmed correctly
   4. Case conversion to lowercase correct
2. Validation of Gender to confirm compliance to requirements
   1. Required
   2. Only accepts Male or Female as input
   3. Return Boolean result
3. Validation of Date of Birth to confirm compliance to requirements
   1. Required
   2. Only accepts input in the form dd/mm/yyy
   3. Result stored in Date object
4. Validation of Postcode to confirm compliance to requirements
   1. Required
   2. Only accepts a 4-digit string
5. Validation of Current Employment Status to confirm compliance to requirements
   1. Required
   2. Output is ‘none’, ‘part’ or ‘full’
6. Validation of Desired Employment Status to confirm compliance to requirements
   1. Required
   2. Output is ‘none’, ‘part’ or ‘full’

Testing is performed by entering compliant data in all fields initially and confirming all validation works correctly.

Tests of each field are performed individually by entering compliant data in all fields except the field being tested. Non-compliant data as outlined in the following table is entered and validation tests performed. For each test of non-compliant data validation should fail.

## Non-compliant test data

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Given Name | Surname | Gender | Dob | Postcode | Current Status | Desired Status |
| No entry | No entry | Nothing | 10-11-1959 | 123 | Working | Working |
|  |  | Bisexual | November 1970 | aaaa | Employed | Can’t find one |
|  |  | Boy | Tenth of December | A12a3 | Don’t care | Nope |
|  |  | girl | Last week |  | For mum | With sister |

## Functional Testing

1. Compliant test data is entered into the input form and output generated (via console.log or document.write) and compared to the input data.
2. Output data records match the input data
   * 1. Number of records
     2. Data entered for record 1 matches output for record 2 and so on
3. All output data is in lowercase

# Test Plan – Results Section

* 1. Output table presents data matching to the input data
  2. Calculations provide correct results for following items:
     1. Percentage not in workforce
     2. Percentage Unemployed
     3. Percentage Underemployed
     4. Percentage Employed
  3. Setting of filtering values
     1. Output records match the applied filters
     2. Calculations correct for items i to iv above based on applied filters

Test Data Set 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Current Status | Desired Status |  | | |
| full | full |
| full | part |
| full | full |
| full | none |
| full | none |
|  | | | | |
| Not In Workforce | Unemployed | Underemployed | Employed |  |
| 0 % | 0 % | 0 % | 100 % |  |

Test Data Set 2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Current Status | Desired Status |  | | |
| none | full |
| part | part |
| full | full |
| full | none |
| full | none |
|  | | | | |
| Not In Workforce | Unemployed | Underemployed | Employed |  |
| 20% | 20 % | 20 % | 80 % |  |

Test Data Set 3

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Current Status | Desired Status |  | | |
| none | full |
| none | part |
| none | full |
| none | part |
| none | part |
|  | | | | |
| Not In Workforce | Unemployed | Underemployed | Employed |  |
| 100% | 100 % | 100 % | 0 % |  |

Test Data Set 4

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Current Status | Desired Status |  | | |
| none | none |
| part | full |
| full | full |
| full | part |
| none | part |
|  | | | | |
| Not In Workforce | Unemployed | Underemployed | Employed |  |
| 40% | 40 % | 40 % | 60 % |  |

Test Data Set 5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Current Status | Desired Status |  | | |
| none | part |
| part | part |
| full | full |
| full | full |
| full | full |
|  | | | | |
| Not In Workforce | Unemployed | Underemployed | Employed |  |
| 20% | 20 % | 20 % | 80 % |  |

# Test Plan – Person Details

1. Given the test data as outlined below, all filter settings need to be tested to ensure that the output results only produce records matching the applied filters

## Test Data Set

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Given Name | Surname | Gender | DoB | Postcode | Current | Desired |
| Mal | Evans | Male | 10/11/1959 | 4215 | Full | Full |
| Hannah | Evans | Female | 25/1/1994 | 4125 | Part | Full |
| Mitch | Cheetham | Male | 5/7/1984 | 4125 | Full | Full |
| Chrissie | Hammond | Female | 27/1/1994 | 4062 | Part | Part |
| Maree | Georgiou | Female | 6/6/1960 | 4215 | None | None |
| Steff | Evans | Female | 13/4/1991 | 4052 | Full | Full |

Test 1 - Gender = Male

Expected results – Male = 2 records

Test 2 – Min Age = 21

Expected results = 6 records

Test 3 – Max Age = 45

Expected results = 4 records

Test 4 – Postcode = 4215

Expected Results = 2 records