Student: \_\_Heuijin Ko(8187452)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section: 4\_\_\_

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| --- | --- |
| Form layout similar to example | \_\_\_\_\_\_ /2 |
| When form loads, ListBox shows all province codes on file   * When a province code is selected, the province record is loaded to input areas | \_\_\_\_\_\_ /2  \_\_\_\_\_\_ /3 |
| When “Add” is clicked, the input areas are cleared   * When “Save” is clicked, the new record is added to the file   + And is shown in the ListBox | \_\_\_\_\_\_ /1  \_\_\_\_\_\_ /2  \_\_\_\_\_\_ /1 |
| When clicking “Save” on an existing record:   * The updated record replaces the original record on file   + Other province records are unaffected | \_\_\_\_\_\_ /3  \_\_\_\_\_\_ /1 |
| When “Delete” is clicked:   * The province currently displayed in the input areas is deleted from the file * The ListBox is updated to show the province gone, nothing is selected * The other province records are unaffected. | \_\_\_\_\_\_ /3  \_\_\_\_\_\_ /2  \_\_\_\_\_\_ /1 |
| Edits & Reformats   * Name, ProvinceCode, CountryCode and TaxCode are trimmed * ProvinceCode is required and must be exactly 2 **letters**, ignoring case   + It is shifted to upper case before saving * Name is required * CountryCode is required and must be exactly 2 **letters**, ignoring case   + It is shifted to upper case before saving * Adding a duplicate ProvinceCode is caught * Adding or updating to create a duplicate Name is caught   + Updating an existing record without changing its Name is allowed * TaxCode, if provided, can only be letters, ignoring case. It can be empty/null   + It is shifted to upper case before saving * TaxRate must be between 0 and 1, inclusive   + If TaxCode is empty/null, tax rate must be zero * IncludesFederalTax must be true or false   + If the tax rate is zero, this must be false * All edit error messages are displayed at once, one line per error. | \_\_\_\_\_\_ /4  \_\_\_\_\_\_ /3  \_\_\_\_\_\_ /1  \_\_\_\_\_\_ /1  \_\_\_\_\_\_ /3  \_\_\_\_\_\_ /1  \_\_\_\_\_\_ /2  \_\_\_\_\_\_ /2  \_\_\_\_\_\_ /2  \_\_\_\_\_\_ /2  \_\_\_\_\_\_ /1  \_\_\_\_\_\_ /2  \_\_\_\_\_\_ /2  \_\_\_\_\_\_ /1  \_\_\_\_\_\_ /1  \_\_\_\_\_\_ /4 |
| The Save and Delete actions catch exceptions and display them on the form | \_\_\_\_\_\_ /4 |
| Total | \_\_\_\_\_\_ /57 |
| Standards: names comments @1%  Late days @20% |  |
| Not doing adds, updates, deletes, & reads through methods of the DAL class | - 100% |
| Final Grade | \_\_\_\_\_\_ /57 |