# Technical Documentation:

## Part 1 Trigger

Contact - Account Industry field: I set the access to Read Only for all profiles on the assumption that since the field says “Account Industry”, we don’t want to allow users to update that field.

before Insert/Update triggers were used instead of after Insert/Update to prevent unnecessary “second” updates to the record.

populateIndustry method:

* Loops through all the new/updated contacts, and collects the accountId and puts in a map, with Account Id as the key, and list of Contacts with the same account Id as the values in the map.
* Using the accountId keys of the map, queries the account object (and its Industry value)
  + Loops through each of the contacts (values) with the same accountId key, and populates the Account Industry field

## Part 2: Lightning Web Component

* Created an Aura App that extends ltng:outApp which allows Lightning Web components to be embedded into any page.
* In LWCDemo Visualforce page’s script
  + $Lightning.use is to load our LWC inside the Visualforce page, with a callback to call $Lightning.createComponent, which dynamically creates the LWC that displays the accounts
* accountList LWC
  + Used the @wire to call the method that gets the list of accounts. @wire is used because data returned is not changeable, and it’s easy to perform logic when data is returned or error occurs.
  + <template:if> is used to show or hide sections of that page, depending on whether it is the initial page load, Next button was clicked or Back button was clicked.
  + Back button click method simply updates variables that will show the account list and at the same time, executes the refreshApex call to refresh the cached data.