SENG 300 Winter 2020

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Tutorial Number: 4

Assignment 4

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- Firstly, we list 4 functional processes from the requirement

  - Create company contact
  - Retrieve company contact
  - Update company contact
  - Delete company contact

- Secondly, we list the fields needed to be maintained in the system:

  - Company
  - Name of contact
  - Job title
  - Date of initial contact
  - Street address
  - City
  - State
  - Zip code
  - Phone number
  - Fax number

- Thirdly, we make the assumption that error file is maintained in the system.

- Next we analyse each contact from **CRUD** above.

- For **Create company contact**:

  - The employee can create a company contact data record, where the employee should know that all the ten fields of contact data.
  - **E** Request the page of 'create a company contact data' page, typing in all the fields of contact data.
  - **W** Updating the newest value of these 10 fields to the external storage (this operation is performed inside).
  - **X** Error on contact data with sufficient details.
  - **X** Return a message to indicate an error is occurred with the reason why the error is happened with detailed message or indicate the operation is done successfully. Thus, its functional size = 4 CFP

- For **Retrieve company contact**:

  - The employee can query and retrieve the contact data record with custom requirements he or she created from the external storage, with all contact fields included.

- **E** Request the page of 'retrieve company contact data' page, typing the company and the name of contact in the input box.
- **R** The data that contains the attributes of 'company' and the 'name of contract'.
- **X** Error on the arguments which are passed to retrieve records.
- **X** Return a message to indicate an error is occurred with the reason why the error is happened with detailed message or show all info retrieved (it is empty if no records satisfy the requirements). Thus, its functional size = 4 CFP

- For **Update company contact**:

  - The employee can change any current contact data record, where the employee can change any field of the contact data.
  - **E** Request the page of 'change the company contact data', where you can type any of these fields in an input box.
  - **W** Updating the newest value of these 10 fields to the external storage (this operation is performed inside).
  - **X** Error on contact data with sufficient details.
  - **X** Return a message to indicate an error is occurred with the reason why the error is happened with detailed message or indicate the operation is done successfully. Thus, its functional size = 4 CFP

- For **Delete company contact**:

  - The employee can delete any current contact data record.
  - **E** Request the page of 'delete the company contact data', where you can type any of these fields in an input box to retrieve all records for deletion.
  - **R** The data that contains the attributes of 'company' and the 'name of contract'.
  - **X** Error on the arguments which are passed to retrieve records.
  - **X** Return a message to indicate an error is occurred with the reason why the error is happened with detailed message or indicate all info retrieved for deletion (it is empty if no records satisfy the requirements). Thus, its functional size = 4 CFP

  Thus, its FUR = summation of all functional sizes = 16 CFP