

Final lab

Create a bug tracker application with 4-5 pages.

The application must be using the entity framework code first approach for the data access.

The gui must allow the manipulation of the database in a ergonomic manner.

Description :

The bug tracker application will help developer to keep track of a bug they found. The application must allow the selection, insertion ,edition of a bug. The application should be separated in 4-5 pages which are the following : Selection, Bug, Person, Message, and optionnally, a new bug page.

Bug :

This page should display all the field in a bug object in a readonly fashion.

There must be a edit button that will make the following field editable. Name,Description,priority, severity, solved.

You will need a save button and a cancel button on that form.

The save button will confirm the changes, save onto the database and add a log for each of the changes.

The cancel button will revert the changes, no log ,no traces.

Both buttons will return the page to a readonly state with the correct values if reverted.

The messages should be displayed in a data grid view showing the id(in the list not in the table), the name, the creatorid and the creation date.

The page should have a new message button to open the message page which will be used to retrieve the message information.

Selecting a message in the datagrid view will open the message page displaying the message in a readonly fashion.

The logs should be displayed in a rich text box as strings. The string should contain a timestamp and the logText.

The Creator full name should be in a label or a button that once clicked, will open a person window to displays all the informations about that person.

You will need a « new bug » button onto the bug display form to either make the bug window editable(harder) or open a new form that has all the field to create a new bug(easier). The button should only be enabled if the page is not being edited.

The same button should be found on the selection page.

Selection :

The application must have a selection page to find all the bugs matching the criterias. **

The search page must have a button to execute the query and a data grid view to display the result of the query.

When a row is selected, a select button should become enabled, this will allow the user to open a bugDisplayPage with the selected bug.

Person :

This page should display all the field of a person. (name, address, etc)

Message :

This page should allow to either display a bug message or to create a new one, depending on the context, this page could be readonly. The confirmation button text should change depending on the context also.

New bug (optional) :

This page should have all the following fields : name, desc, creator, severity, priority .

The confirm button on this page should create a new entry in the database and save it. the application should then display this bug in the bug page.

The Criterias required on the selection form :**

Bug id

From ,to creation date. (the default value should 1 year range from today's date)

From to last edit date. (the default value should 1 year range from today's date)

Creator (id first and last name displayed in combo box + option any)

Name(part of word)

Desc(contain word)

Priority

Severity

Solved or not (include solved bugs in the query or not)

The data structures:

- a. Person
- b. Bug
- c. Message
- d. Log
- e. Severity(reference table) / Priority(reference table)

Person :

Id,
FirstName,
LastName,
JobTitle,(can be null)
Salary,
YearsOfExperience,
HiredDate,
Address,
Email,(can be null)
DateOfBirth,

Bug :

Id
Name
Description (can be null)
CreatorID
Priorityid
Severityid
CreationDate
LastUpdateDate , (can be null)
solved
Messages
Logs

Message :

Id,
BugId,
Title,
Text,
CreationDate,
CreatorId,

Logs :

Id
bugId,
Text,
CreationDate

Severity and Priority : (require 2 tables)

Id,
Name,
Desc, (can be null)

Evaluation

Layer	%	Description
DataAccess	30	15% migrations have been used properly 15% the models contains all the required informations, relationship and constraints.
Business	10	the business layer is implemented
GUI	60	The Gui is displaying the correct info in the correct places and the all the functions are working as intended. 20% the selection page (data grid view, selection combo box, etc) 20% The bug display page 10% person display page 10% the new bug Page / the bugDisplayPage behaviour