SE\_Software\_Requirement\_Specification

SimpleMerge

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SimpleMerge is a program that provide comparing and merging function. The project will be done with both agile processes and plan-driven processes. We are planning to divide the project into 3~4 phases. Each phase takes about 4~5 days, and rough plan is written below. We will use Java to implement the program, and the work will be done on Eclipse. Also, glossary and revision history of the documents will be written separately by using Excel or MS Word.

Functional Requirements

1. Viewing, Editing, Saving files
   1. When user start the program, a main window with 2 panels is displayed.
   2. On top of each panel, there are “Load” , ”Edit” , ”Save” buttons.
      1. When user presses “Load” button, user can choose a file, load the contents and display them in the edit panel.
      2. When user presses “Edit” button, user can edit the strings in the edit panel
      3. When user presses “Save” button, the program should save the edited contents into the file.
2. Comparing Function.
   1. When user presses “Compare” button, the program displays the different lines with a colored font/background.
   2. Comparison is done line by line. (Result should be same as the one resulted from ‘Diff’)
3. Merging Function
   1. When user presses “Copy to Right” button, the selected block in the left panel is copied to the file shown in the right panel.
   2. When user presses “Copy to Left” button, the selected block in the right panel is copied to the file shown in the left panel.
   3. Two functions will make the corresponding blocks be identical.

Non-functional Requirement

1. The project should be done using Github.
2. All progress of the project should be tracable.
3. Easy to test the code.
4. GUI components should be designed by using MVC architecture pattern.

Use case name : Simple Merge Program

Level : User goal level

Primary actor : User / Supporting actor : Operating System

Main Success Scenario

1. When user choose two files ,the program loads the files and shows them on the window.
2. Program shows different sentences between 2 files to user.
3. When user clicks “Edit” button, program changes into edit mode.
4. When user clicks “Save” button, OS saves current text files including the changes.
5. When user clicks “Find” button, program searches the different part and shows them on the window.

<Supporting Actor>

OS

<Primary Actor>

User

Simple Merge

System sequence diagram / domain model : TBD

Project plan

Agile processes + plan driven processes

Iteration phase : 4~5 days per one phase / 3~4 phases

* + - * 1st : specify requirements & rough design
      * 2nd : implement main functions & GUI
      * 3rd / 4th : Testing & Debugging