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| **Project:** FMS  **Priority:**High/Medium/Low | **Language:** Java 1.8  **Methodology:**Agile | **Developed By:** Suraj Singh  **Development Man-days:** 4  **Document Prepared By:** Suraj Singh  **Document Prepared Date:** 17-01-2021  **Submission Date:**20-01-2021 |
| **Project Description:**  Develop File Management System Menu Driven software, Which Should Perform Actions like Create, Delete, Search and Sort Files Based on the User Selection.  **Software’s Requirement**  Eclipse - Project Development | |
| **1.Project Description from Simplilearn:**  Based on the requirements from the LMS, I developed the File Management System (FMS) Menu Driven Software, It must have 4 options and It is going to works on the basis of User Entered Input.   * Menu 1 – Sorting of the Files in the Ascending Order. * Menu 2 - Client can Add, Delete, Search and Back to Main Menu Option Based in on User Choices * Menu 3 - Exit From the Application   **Menu 1 - Sort the Files in the Ascending Order:**  For the Ascending order Sorting technique application developed on sort method present in the Arrays class. Default behavior of the Arrays.sort method is to return the sorted objects in ascending order.   * For example, if the user enters the input as 1 then application will check files from the root folder and if root folder not exists means then it will create a new root folder in the project. * FMS gets the file names for the root folder added to the Array Object and print those files using for each loop. * If there are no files on the root directory means then it will return the error message as ------ No Files Found in the Root Directory .....!!!!! Please Add the Files -------".     ***Figure 1.0 Menu 1 – Sorting in Ascending Order***    ***Figure 1.1 Menu 1 – Sorting in Ascending Order***  **Menu 2 - User can add, delete, search and back to main menu option**  Application having the separate sub menu for Menu 2. If the user selects the menu 2 option means then the application allows the user to create a new txt file, delete the txt file from the root folder, search the txt files based on the search pattern and the last option is to jumps back to the main menu.  **Add Files on root Folder**   * It gets the user input file name and search if the file name already exists or not. If exists means then application will display the error message as ----- File is Already Existing.....!!!!! Please Give Input With Different File Name ----- " * On Successful file name creation, System displays the success message as "----- File is Created With the Name -----" followed by the file name.     ***Figure 1.2 Menu 2 – Creating new txt file in the root directory***    ***Figure 1.3 Menu 2 – Creating new txt file in the root directory***  **Delete Files from root Folder**   1. It will compare the file names it with the user input file name. If one of the filenames contains the user input file name means then the application will perform the delete operation on the user input file name. 2. Once the application removed the user entered file name then it displays the success message as "----- Successfully Deleted File = FileName.txt” followed by the user input file name. 3. In case of user-entered file name not present in the root directory means the application should throw the custom exception as CheckedExceptionForBusiness with the error message "----- File is Not Found -----".     ***Figure 1.4 Menu 2 –Deleting the existing file from the root directory***    ***Figure 1.5 Menu 2 –Deleting the existing file from the root directory***  **Searching Files from root Folder**   1. The application performs a search operation based on the user input pattern. It takes the user entered String. User input Pattern should work in case insensitive form irrespective of both upper and lower alphabetical case. 2. It matches the files in the directory with the user input file name and if matched then display the message “----- The Specified File with the Name ----- anita ----- is Available -----” followed by the file name . 3. If any of the files don't match with the file names present in the root directory means then the application will display the message as "----- The File is Not Available -----".     ***Figure 1.6 Menu 2 –Searching files from the root directory***    ***Figure 1.7Menu 2 – Searching files from the root directory***  **Back to Main Menu**   1. If the user entered the back to main menu options means then the application jumps back to the main menu. This option is maintained for the navigation purpose from the submenu to the main menu.   ***Figure 1.8Menu 2 – Back to main menu from the sub menu***  **Menu 3 - Exit the application**  Application having the option to exit at any case based on the user input. If the user selects to perform this option means the application ends its process. In case if the user entered the wrong input means then the application throws the error message as “Wrong Choice....!!! Choice Should And Must be Between 1 to 3 Only ”.    ***Figure 1.9 Menu3 – Exit the Application***    ***Figure 1.10 Menu3 – Exit the Application***  **Application Flow Chart:**    **Java Concepts Being Used in the Project :**  Classes, File Handling, Arrays, Exception Handling, Scanner  **Github URL:**  <https://github.com/Sooraj678/SimpliLearn-Projects>  **Product’s Capabilities, Appearance, && User Interactions :**  1) Application is a Console Based Menu Driven Application.  2) User Selects the Available Menu Options from the Console.  3) Available Options are Add a File, Delete a File, Search a File ,Display a File, Exit  **USP :**  1) Options Provided to the User as a Part of this Application Supports All Menu Based Operations  2) Next Free Upgrade Includes File Handling for Different Types of Files Other than txt as well. | | |
| **Provide Customer Feedback:** | | |
| **Project Details:**  **Version No: 1.0**  **Production Date: 17-01-2021** | | |