**Implement OOPS using JAVA with Data Structures and Beyond**

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* **GitHub Repo**: <https://github.com/abdalhamidElnaggar/SimpliLearnJavaProject>

1. **Project Specifications**

Company Lockers Pvt. Ltd. hired you as a Full Stack Developer. They aim to digitize their products and chose LockedMe.com as their first project to start with. You’re asked to develop a prototype of the application. The prototype of the application will be then presented to the relevant stakeholders for the budget approval. Your manager has set up a meeting where you’re asked to present the following in the next 15 working days (3 weeks):

* Specification document - Product’s capabilities, appearance, and user interactions
* Number and duration of sprints required
* Setting up Git and GitHub account to store and track your enhancements of the prototype
* Java concepts being used in the project
* Data Structures where sorting and searching techniques are used.
* Generic features and three operations:
  + Retrieving the file names in an ascending order
  + Business-level operations:
    - Option to add a user specified file to the application
    - Option to delete a user specified file from the application
    - Option to search a user specified file from the application
    - Navigation option to close the current execution context and return to the main context
  + Option to close the application

1. **Sprint Planning**

**Sprint 1 Features:**

* Program design
* Flow chart design
* Reviewing stories and do estimations
* Setup version control system

**Sprint 2 Features:**

* Implement welcome message
* Implement main menu for users
* Implement create directory function
* Implement list all files functions
* Implement close application function

**Sprint 3 Feature:**

* Implement second menu for users
* Implement add new file function
* Implement delete file function
* Implement search for a file function
* Implement go back to previous menu function

**Application flow chart design**

[**https://github.com/abdalhamidElnaggar/SimpliLearnJavaProject/tree/master/flowchart**](https://github.com/abdalhamidElnaggar/SimpliLearnJavaProject/tree/master/flowchart)

* **Core concepts used the the application:**
  1. **Object oriented programming**
  2. **Scanners**
  3. **Looping**
  4. **Control flow statements**
  5. **Collections**
  6. **Sorting**
  7. **Searching**
  8. **Printing to console**