**Full Stack Java Developer**

Phase-End Project Problem Statement



**Phase-End Project** **1**

**Budget Tracker**

**Project objective:**

To build a budget tracker application for an organization

**Background of the problem statement:**

ComplexLearn Pvt. Ltd. has hired you as a full stack developer to create a budget-tracking application.

The tasks that need to be performed are as follows:

* Create a specification document detailing the product’s capabilities, appearance, and user interactions
* Document the application flow
* Specify the number and duration of sprints required
* Plan more than two sprints to complete the application
* Set up Git and a GitHub account to store and track enhancements to the prototype
* Implement Java concepts to create this application, including data structures for sorting and searching

**The flow and features of the application are:**

* Users can log in to the application using the appropriate username and password.
* They can enter a budget for every month.
* They can enter a date, and all the budgetary entries for that date will be retrieved.
* They can enter a month, and all budgetary entries for that month will be retrieved.
* They can get expenses done at the budget reset.
* They can delete the budgetary log for a particular month.
* Hashing is used to store details like month-wise expenses, expense types, and so on.

**Technology Specification:**

The following technologies are used in the development of this application:

* Core Java Concepts
* Object-oriented programming
* Searching
* Sorting
* Hashing

**Validation (Frontend and backend):**

* Users can change their password only if the old password is entered correctly.

**Business logic/exceptional scenarios:**

* For each new entry, the existing budget is checked, and a message is displayed if the expenses exceed the budget.
* Users will have to enter a password before entries can be made.

**The following requirements should be met:**

A high-quality application, including the above-mentioned features, validations, and business logic, should be delivered at the end of the project.

**Screenshots:**

**Task 1: Log in**

A screenshot of a computer

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**Task 2: Set a monthly budget**

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**Update the budget if it’s already set:**

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**Task 3: Record an expense**

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**Task 4: Budgetary logs**

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**Task 5: Date-wise logs**

Table

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**Task 6: Month-wise log**

Table

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**Task 7: Total budget**

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**Task 8: Delete budgetary logs**

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**Task 9: Change the password**

Text

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