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CS 4500-INTRODUCTION TO SOFTWARE PROFESSION

Phase 1 Time entry log project

Group 9

Team Members

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|  |  |  |  |
| Version Number | Date | Description | Autor Name |
| 1.0 | 09/18/2024 | Initial design | Alewiya Duressa |
|  |  |  |  |
| 1.1 | 09/21/2024 | Classes introduced for readability and to accomplish the requirement | Alewiya Duressa |

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**Program-B**

The program is a time-logging tool designed to help users track the time spent on various activities for a class (CS 4500). It allows users to start a virtual clock, record details of an activity, and stop the clock when finished. The program logs details such as the activity type, the number of participants, and optional notes. It automatically appends these details to a CSV file.

Key features include:

* Locating and opening LastnameFirstNameLog.cvs file
* Selecting an activity from a list.
* Logging the number of participants and optional notes.
* Starting and stopping a virtual timer.
* Handling time entries that span midnight.
* Storing the logged data in a CSV file.

**Pseudocode**

Class Team9logEnterImmediate

Method Main()

Display welcome message, wait for input

Initialize logger and locate log file

Initialize activity: pick code, participants, note

Start time logging

Wait for user to confirm activity completion

Stop logging and save entry to file

End Method

End Class

Class TimeEntryLogger

Method locateLogFile()

Find and validate CSV file

End Method

Method LogTimeEntry(timeLogFileUpdater, activity)

Log entry, handle midnight crossing

End Method

End Class

Enum ActivityCode

// Activity codes (0-9, A-D)

End Enum

Class UserActivity

Method PickActivityCode()

Select and validate activity code

End Method

Method EnterParticipants()

Get number of participants (1-50)

End Method

Method AddNote()

Get note if needed (max 80 chars)

End Method

End Class

Class TimeLogFileUpdater

Method StartLogging()

Record start time

Record Log date

End Method

Method StopLogging()

Record end time

End Method

End Class