**TRIBHUVAN UNIVERSITY**

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**DEPARTMENT OF COMPUTER ENGINEERING**

**KHWOPA COLLEGE OF ENGINEERING  
LIBALI, BHAKTAPUR**

**A PROJECT REPORT**

**ON**

**“WORKER’S TIME LOGGER”**

Project work submitted in partial fulfillment of requirements for the award of the degree of Bachelor of Engineering in Computer Engineering

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**UNDER THE GUIDANCE OF**

(Er. Shiva Kr. Shrestha)

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**CERTIFICATE**

**DEPARTMENT OF COMPUTER ENGINEERING**

**KHWOPA COLLEGE OF ENGINEERING  
LIBALI, BHAKTAPUR**

**CERTIFICATE**

This is to certify that the project entitled “**Worker’s Time Logger**" submitted by Mr. Sudip Shrestha, Mr. SanishShrestha ,Mr. RochakSedai, Mr. Anup Kafle in a partial fulfillment of the requirements for the award of the Degree of Bachelor of Engineering in Computer Engineering of Tribhuwan University, is a bonafide work to the best of my/our knowledge and may be placed before the examination Board for their consideration.

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**ABSTRACT**

A project report entitled to “WORKERS TIME LOGGER”. The main objective of development of this project is to solve the problem regarding salary distribution to the workers according to their working time. Recording all the information of the workers in office files, and searching the information of respective workers is very complex. Thus to solve this kind of problem we designed this program. Thus after analysis of problem we designed algorithm, flowchart and write our source code. We use DEV C++, Sublime Text Editor, Code Blocks IDE, etc to compile our code, obtained error was removed. Thus we get good result from our program. It displays workers information, their working time and salary according to their working hours.

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**LIST OF ABBREVIATION**

DBF – DataBase File

GUI – Graphical User Interface

OS – Operating System

OOP – Object Oriented Program

IDE – Integrated Development Environment

GCC – GNU Compiler Collection

**CHAPTER 1**

**INTRODUCTION**

**1.1 Background**

Most of the people are not able to manage their regular ledger entry and are unable to manage time. The main objective of people/ businessman is to get possible benefits from low manpower in lower cost with less time. So, in order to help individuals to keep the systematic and scientific data, we have designed this program.

**1.2 Statement of Problems**

Before starting the project, we initially faced a problem to make the interactive and feasibility program. After the long discussion we came up with the ideas about enhancing some experimental features.

During the development of the project, we will be working on different features to enhance the use of Worker's Time Logger,

1. Privacy Protection
2. Working hours
3. User- friendly

**1.3 Objectives**

The main aim of the project is to manage the time schedule and information of the worker's with easy interaction with computer. More objectives of the program are:

1. To display worker's info.
2. To manage the worker's time.
3. To display the salary according to their working hour.

**1.4 Application**

The program shall be widely used among the organization, factories, etc. because they can be used to store worker's data, their arrival and departure time, calculate working time along with their salary. It also helps to provide information about overtime work done by worker in user friendly way. It also helps to increase employee productivity, error reduction, saves money and time.

**1.5 Scope & Limitation**

The scope of our project “Worker's Time Logger” is in the small scale industry, offices, colleges, where the workers can know about their working time and store their all information in computer very efficiently. Our first priority is for worker's is to manage their working time. So, it can be widely used in factories, offices, schools, etc.

As C language rarely supports GUI, the most challenging part during the development of this project should be creating the functions as interactive as in OOP. Our second main problem will be listing out events by keywords. Another complication in developing this project is adjusting the compatibility of operating system, and GUI technology.

**CHAPTER 2**

**LITERATURE REVIEW**

**Eattendance*.com*** is an online Time Attendance System which helps you to manage attendance, leave and payroll for any kind of organization. E*-*attendance is an online attendance managementsystemthat enhances the process of your institution with power of Integration, Simplicity and Affordability. We can get speed, accuracy and ease in our attendance management using time attendance system online. Our program core idea is also same as the idea developed in “eattendance.com”. In this mini project

**(Workers Time Logger)**, user has to first enter his specified identical code and then their information along with their work will be displayed along with their salary according to the work they have done in an hour. We have also a big challenge in developing GUI technique.

**CHAPTER 3**

**METHODOLOGY**

**3.1 Background**

During the development phase of this program, the first phase of the development will be collecting all the requirements such as header files and external libraries and learning to use them efficiently into the project.

In the second phase, we will be working on the development of main components of the program. The program will have four main component:

1. Add, remove and update

The program will allow the user to enter the updates like contact number and working fields. The user will also be able to remove the updateable information as they perform login and they can add the co-workers details.

1. Enter the Working hour

The employer can add his working hour in his job.

1. View Salary

Employer can view the salary as given from the specific rule assigned by the admin according to the working hours.

**3.2 Tools and Platforms**

During the development of the project, the tools and platforms that we will be using for coding and testing the project are:

1. Windows
2. Code blocks IDE
3. Turbo C IDE

4. Github

**3.3 Generic Model**

We have divided the program flow into different blocks of diagram. The relation between different models with each other is shown in the figure 4.1.

Append Worker's info

Display individual Worker's

Search Worker's info

Delete Worker's info

Modify Worker's info

Append Worker's info

Worker's Time Logger Menu

|  |
| --- |
| Exit  Display all engaged workers |

Figure: 3.1 Generic Model of the Program

**3.4 Flowchart**

Enter your choice

Read ch

Exit

Display all engaged workers

Display individual workers

Search workers info

Delete workers info

Modify workers info

Add workers

if ch ==1

if ch ==2

if ch ==3

if ch ==4

if ch ==5

if ch ==6

if ch ==0

fig. flowchart of program

**CHAPTER 4**

**RESULT & DISCUSSIONS**

The program displays the workers information, salary information, working hour of workers. S/he can view the workers information, add, edit, remove or list the entries.

When the user opens the program, various list of menus are shown. And the user can choose any menu, the programs takes the user to a new interface with menus which may contains:-

* Adding the new worker information.
* Editing and modifying the existing the worker information like working time, wages.
* Displaying their salary transactions.
* Display the engaged workers.

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­­­­The manipulation of the data is done through the codes written in C language to display the result expected by the user.

**CHAPTER 5**

**CONCLUSIONS & RECOMMENDATIONS**

**6.1 Conclusions**

Thus, We succeed to develop a Worker's Time Logger. Although, this program might not be too much complex, we have made it very simpler and easier. We've made the easier way to record and calculate the salary of the workers in a daily basis.

**6.2 Future Recommendations**

* We shall include the login system.
* We may add some interesting graphics.
* We may be able to make interfere in GUI.

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