# WORKER'S ACTIVITIES

# **1.REQUIREMENTS:**

**Description** 

Describe about my project

Requirements

**High Level Requirments** 

Features of my project

Low Level Requirments Commands or Functions

Linkage of High Level to Low Level

SWOT 4W's & 1H

### **State Of Research:**

#### Abstract:

In this world of growing technologies everything has been computerized, large number of work opportunities the Human workforce has increased. Thus there is a need of a system which can handle the data of such a large number of Employees in an organization. This Project simplifies the task of Worker's maintain Records of its user Friendly nature.

## **Features of This Project:**

This project will allow admin to add New Employees after proper authentication. Admin can also add new departments and posts.

It can allocate all personal details of employees such as:

- \* Date Of Birth
- \* Full Name
- \* Educational Background
- \* Skill Sets
- \* Work Experience
- \* Current and Past Projects

#### 2.Architecture:

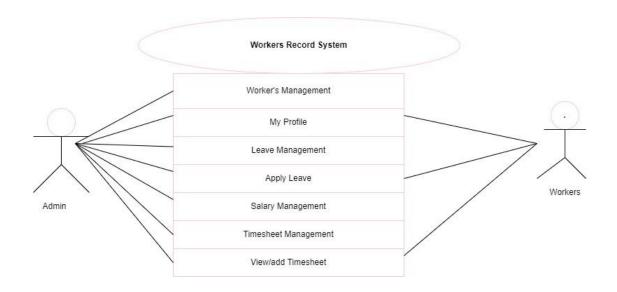
### Design

- \* Structural
- \* Behavioural
- \* Flowcharts
- \* Use Case diagrams
- \* Retirement Plans

### **TOOLS:**

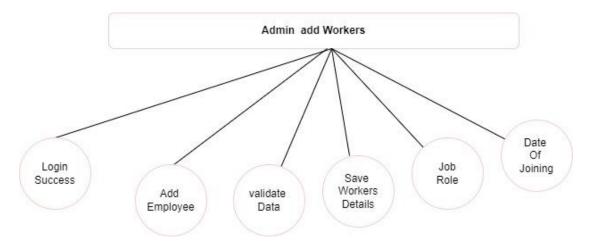
- \* Draw.io
- \* UML Diagram

# **Block Diagram:**





### Structural Diagram:



## **Implementation:**

## Sample\_Code:

```
#include <stdio.h> ///for input output functions like printf, scanf
#include <stdlib.h>
#include <conio.h>
#include <windows.h> ///for windows related functions (not important)
#include <string.h> ///string operations
/** List of Global Variable */
COORD coord = \{0,0\}; /// top-left corner of window
  function: gotoxy
  @param input: x and y coordinates
  @param output: moves the cursor in specified position of console
void gotoxy(int x,int y)
  coord.X = x;
  coord.Y = y;
  SetConsoleCursorPosition(GetStdHandle(STD OUTPUT HANDLE),coord);
/** Main function started */
int main()
  FILE *fp, *ft; /// file pointers
  char another, choice;
  /** structure that represent a employee */
  struct emp
    char name[40]; ///name of employee
    int age; /// age of employee
    float bs; /// basic salary of employee
  };
```

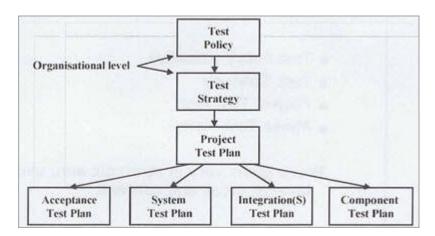
```
struct emp e; /// structure variable creation
char empname[40]; /// string to store name of the employee
long int recsize; /// size of each record of employee
/** open the file in binary read and write mode
* if the file EMP.DAT already exists then it open that file in read write mode
* if the file doesn't exit it simply create a new copy
fp = fopen("EMP.DAT","rb+");
if(fp == NULL)
  fp = fopen("EMP.DAT","wb+");
  if(fp == NULL)
     printf("Connot open file");
     exit(1);
/// sizeo of each record i.e. size of structure variable e
recsize = sizeof(e);
/// infinite loop continues untile the break statement encounter
while(1)
  system("cls"); ///clear the console window
  gotoxy(30,10); /// move the cursor to postion 30, 10 from top-left corner
  printf("1. Add Record"); /// option for add record
  gotoxy(30,12);
  printf("2. List Records"); /// option for showing existing record
  gotoxy(30,14);
  printf("3. Modify Records"); /// option for editing record
  gotoxy(30,16);
  printf("4. Delete Records"); /// option for deleting record
  gotoxy(30,18);
  printf("5. Exit"); /// exit from the program
  gotoxy(30,20);
  printf("Your Choice: "); /// enter the choice 1, 2, 3, 4, 5
  fflush(stdin); /// flush the input buffer
  choice = getche(); /// get the input from keyboard
  switch(choice)
  case '1': /// if user press 1
     system("cls");
     fseek(fp,0,SEEK END); /// search the file and move cursor to end of the file
     /// here 0 indicates moving 0 distance from the end of the file
     another = 'y';
     while(another == 'y') /// if user want to add another record
       printf("\nEnter name: ");
       scanf("%s",e.name);
       printf("\nEnter age: ");
       scanf("%d", &e.age);
```

```
printf("\nEnter basic salary: ");
          scanf("%f", &e.bs);
          fwrite(&e,recsize,1,fp); /// write the record in the file
          printf("\nAdd another record(y/n) ");
          fflush(stdin);
          another = getche();
       break;
     case '2':
       system("cls");
       rewind(fp); ///this moves file cursor to start of the file
       while(fread(&e,recsize,1,fp)==1) /// read the file and fetch the record one record per fetch
          printf("\n%s %d %.2f",e.name,e.age,e.bs); /// print the name, age and basic salary
       getch();
       break;
     case '3': /// if user press 3 then do editing existing record
       system("cls");
       another = 'y';
       while(another == 'y')
          printf("Enter the employee name to modify: ");
          scanf("%s", empname);
          rewind(fp);
          while(fread(&e,recsize,1,fp)==1) /// fetch all record from file
            if(strcmp(e.name,empname) == 0) ///if entered name matches with that in file
               printf("\nEnter new name,age and bs: ");
               scanf("%s%d%f",e.name,&e.age,&e.bs);
               fseek(fp,-recsize,SEEK CUR); /// move the cursor 1 step back from current
position
               fwrite(&e,recsize,1,fp); /// override the record
               break;
          printf("\nModify another record(y/n)");
          fflush(stdin);
          another = getche();
       break;
     case '4':
       system("cls");
       another = 'y';
       while(another == 'y')
          printf("\nEnter name of employee to delete: ");
          scanf("%s",empname);
          ft = fopen("Temp.dat", "wb"); /// create a intermediate file for temporary storage
          rewind(fp); /// move record to starting of file
          while(fread(&e,recsize,1,fp) == 1) /// read all records from file
            if(strcmp(e.name,empname) != 0) /// if the entered record match
```

```
fwrite(&e,recsize,1,ft); /// move all records except the one that is to be deleted to
temp file

}
fclose(fp);
fclose(ft);
remove("EMP.DAT"); /// remove the original file
rename("Temp.dat","EMP.DAT"); /// rename the temp file to original file name
fp = fopen("EMP.DAT", "rb+");
printf("Delete another record(y/n)");
fflush(stdin);
another = getche();
}
break;
case '5':
fclose(fp); /// close the file
exit(0); /// exit from the program
}
return 0;
}
```

# **TestPlan**



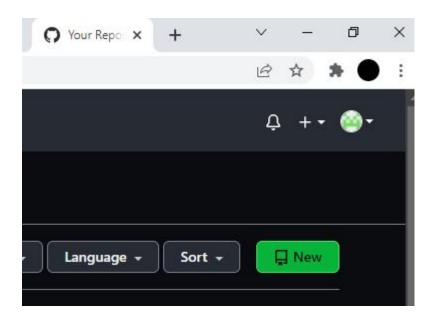
### Table1:

## **High Level Test Plan**

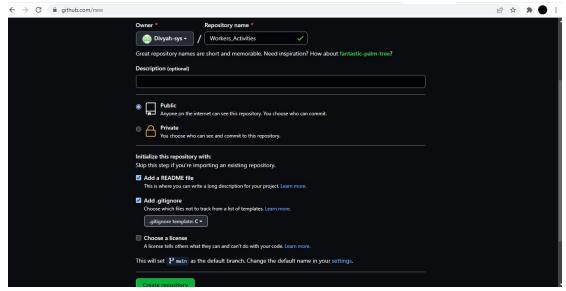
User ID	Description	11	Categ	gory	St	tatus	
HLTP1   Admin able to add new Worker's Record			Technical		Implemented		ļ
HLTP2   Admin	able to Collect Worker'S Data		Techni	ical	Impl	emented	
HLTP3   Admin	able to Store a Worker's data	11	Techni	cal	Impl	emented	
Low Level Test Plan							
User ID	Description			Category		Status	
LLTP1   New F	Record ID Unique shall be adde	d	11	HRTP1		Future	- 1
LLTP2   ID are	possible to visible Through Or	nline Mo	de	HRTP1		Future	- 1

## Images:

## **NEW REPOSITIORY:**

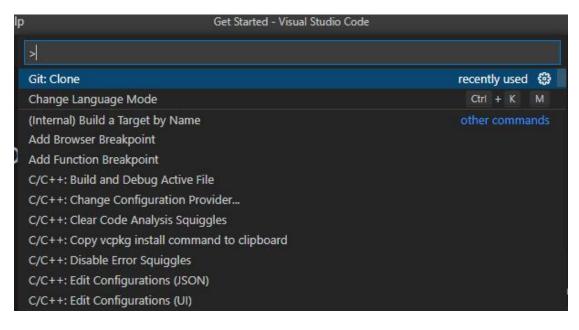


### CREATE NEW REPOSITIORY:

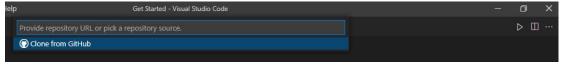




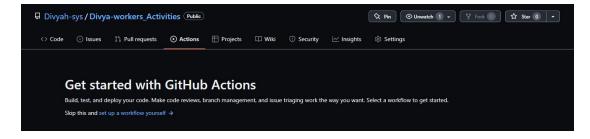
### CLONE:



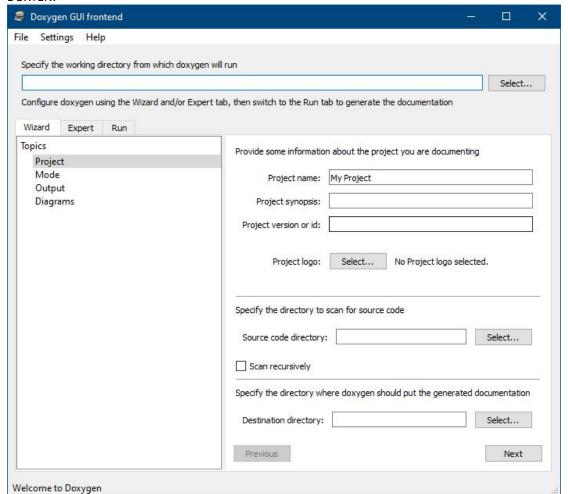
### **CLONE WITH GITHUB:**



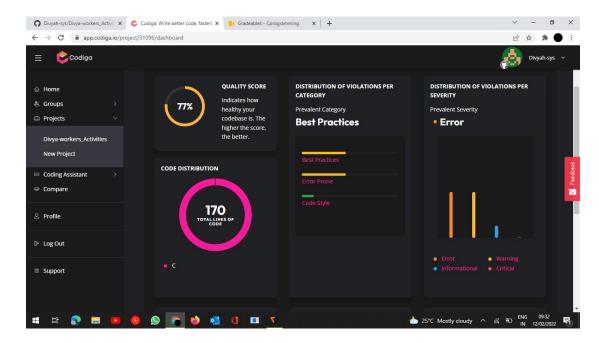




### DOXYEN:



### **Badges:**



### OUTPUT:

