



Anekant Education Society's
**Tuljaram Chaturchand College of Arts, Science and
Commerce (Autonomous), Baramati.**

A

PROJECT REPORT

ON

“Contractor And Worker Management System”

**Submitted to Savitribai Phule Pune University, Pune. For
T.Y.B.Sc.(Comp.Sci.)**

By:

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UNDER THE GUIDANCE OF

Mrs. V.M.Khaire

Academic Year: 2022 – 2023



Anekant Education Society's
Tuljaram Chaturchand College of Arts, Science and Commerce
(Autonomous), Baramati.

CERTIFICATE

This is to certify that the project entitled “**Contractor and Worker Management System**” submitted by **Khomane Amit Sachin** in partial fulfilment of the requirement of the award of degree B.Sc. (Comp.Sci.) to Savitribai Phule Pune University, Pune has been carried out by them under my guidance satisfactorily during the academic year 2022-2023.

Date:

Guide	Internal	External	Head
(Practical)	Examiner	Examiner	Computer Science Dept.

INDEX

Sr. No.	Title	Page No.
1	Problem Definition	4
2	Scope of System	5
3	System Requirement	6
4	Feasibility Study	7
5	E-R Diagram	8
6	Class Diagram	9
7	Sequence Diagram	10
8	Activity Diagram	11
9	Input Output Screens	12 - 15
10	Future Enhancements	16
11	Conclusion	17
12	Bibliography	18

Problem Definition:

- All details of worker and work order allotment are done manually and on paper.
- It becomes very difficult to get all the details about any worker in a short time.
- A lot of time, money and energy is wasted in searching as well as maintaining documents.
- Very difficult to manage workers for contractor.
- Difficulty in accessing softcopy of past project.

Scope of System:

- The main objective of this project is to have a completely automated worker allotment system.
- All details of worker and work order allotment are stored securely on server.
- A lot of time, money and energy is saved in searching as well as maintaining documents.
- Very easy to generate reports of projects as well as worker on single click.
- Very easy to manage workers for contractor.
- No difficulty in accessing softcopy of past project.

System Requirement:

➤ Hardware Requirements

- Processor: Dual Core or Above
- RAM: 2GB(Minimum)
- HDD: 10GB(Minimum)

➤ Software Requirements

- Operating System: Windows 7,10
- Tools: Java Swing, MySQL

Feasibility Study:

➤Economic Feasibility:

As existing system is manual, where data may not accurate, up to date, and available on time. But proposed system will be computerized, so we can overcome all limitations of existing system. Also, with this new system insertion, deletion and modification of various data will be easier to handle. This system will reduce the paperwork and quality of data will be improved.

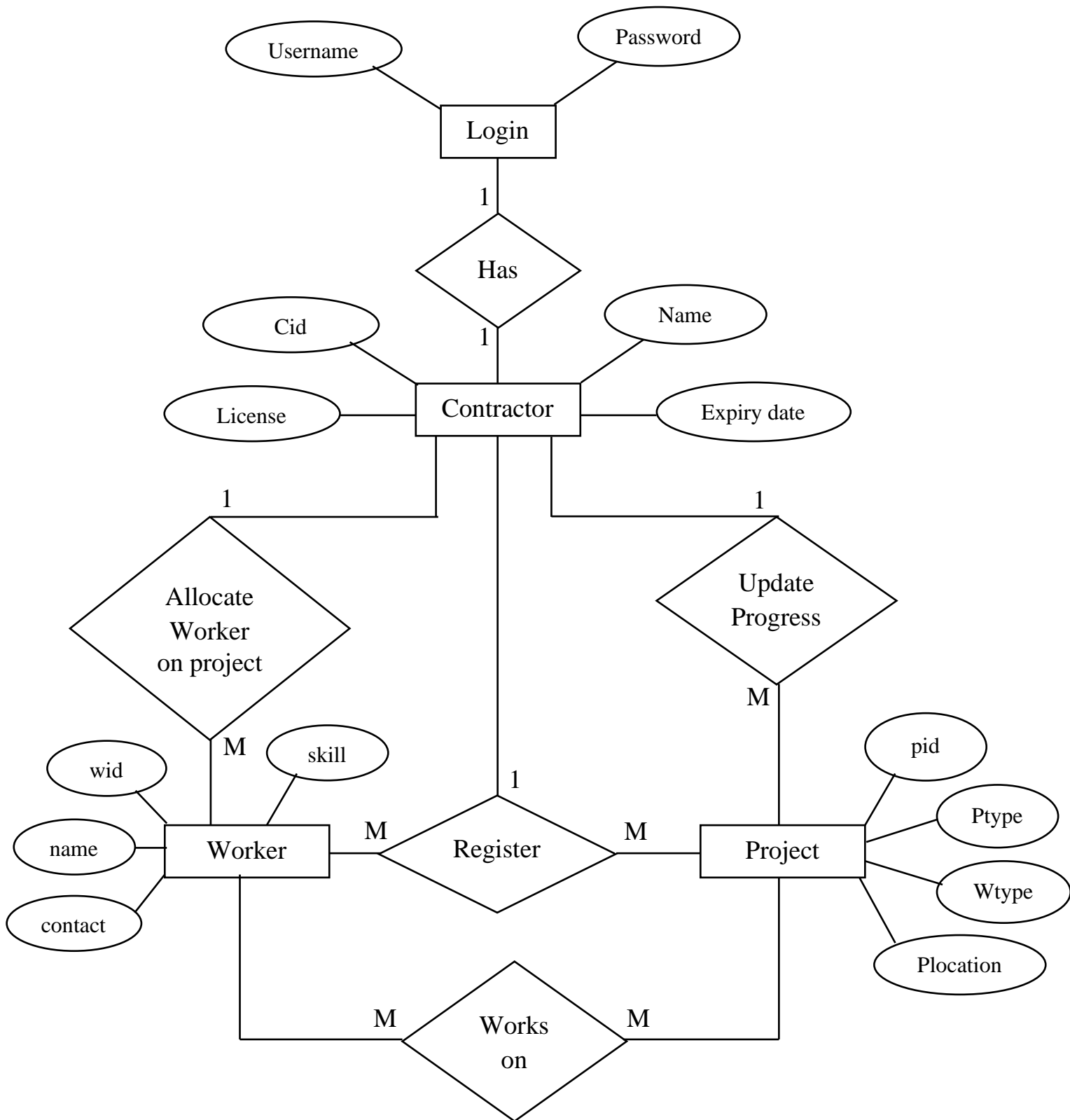
➤Technical Feasibility:

It is technically feasible, since the whole system is designed into the technologies like Java Swing and MySQL server which are the technologies to develop desktop applications and design database.

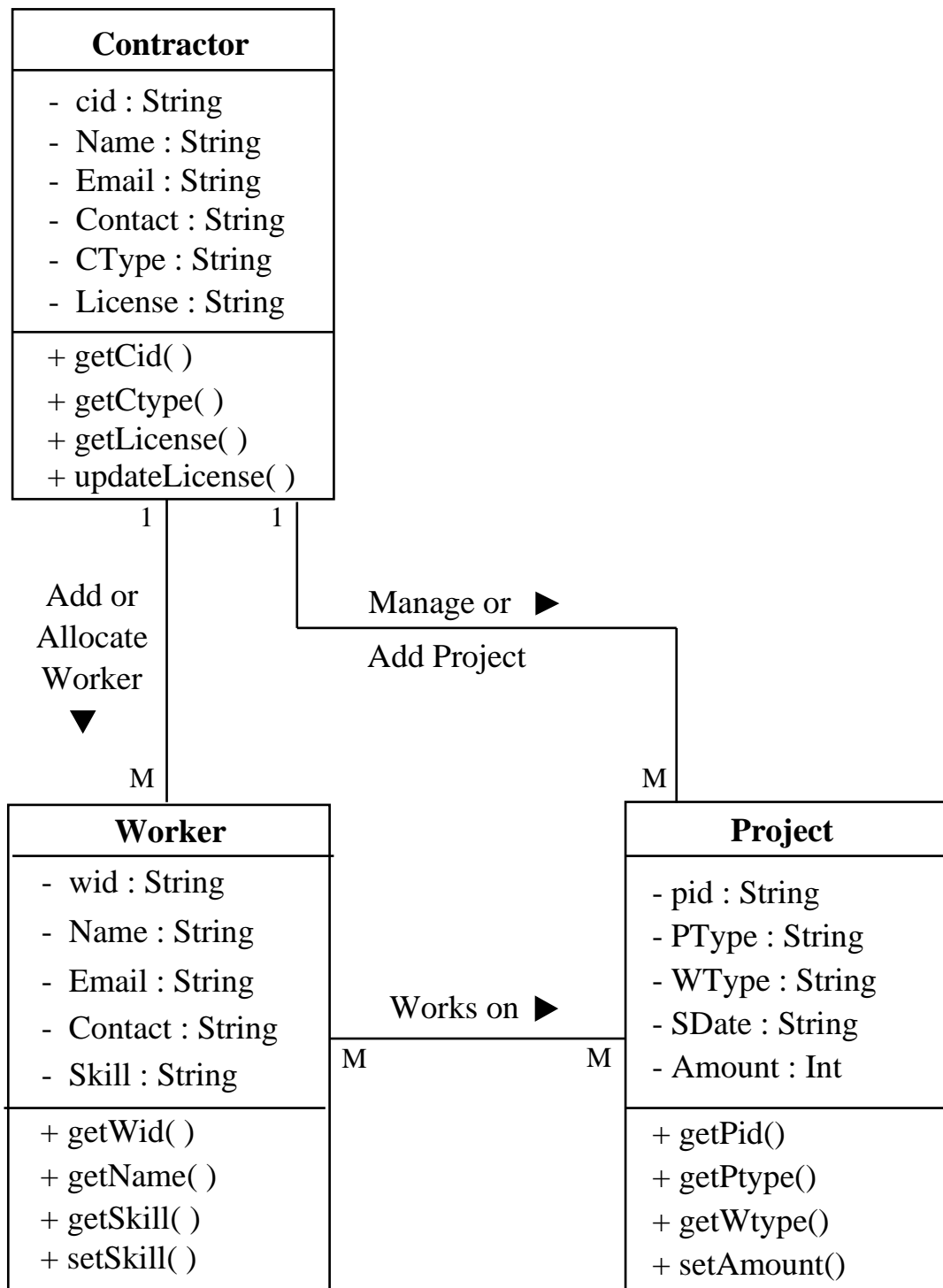
➤Operational Feasibility:

It is operational feasible, since the system is providing an interactive user interface to the operator/end user, so he/she feel very easy to work onto it.

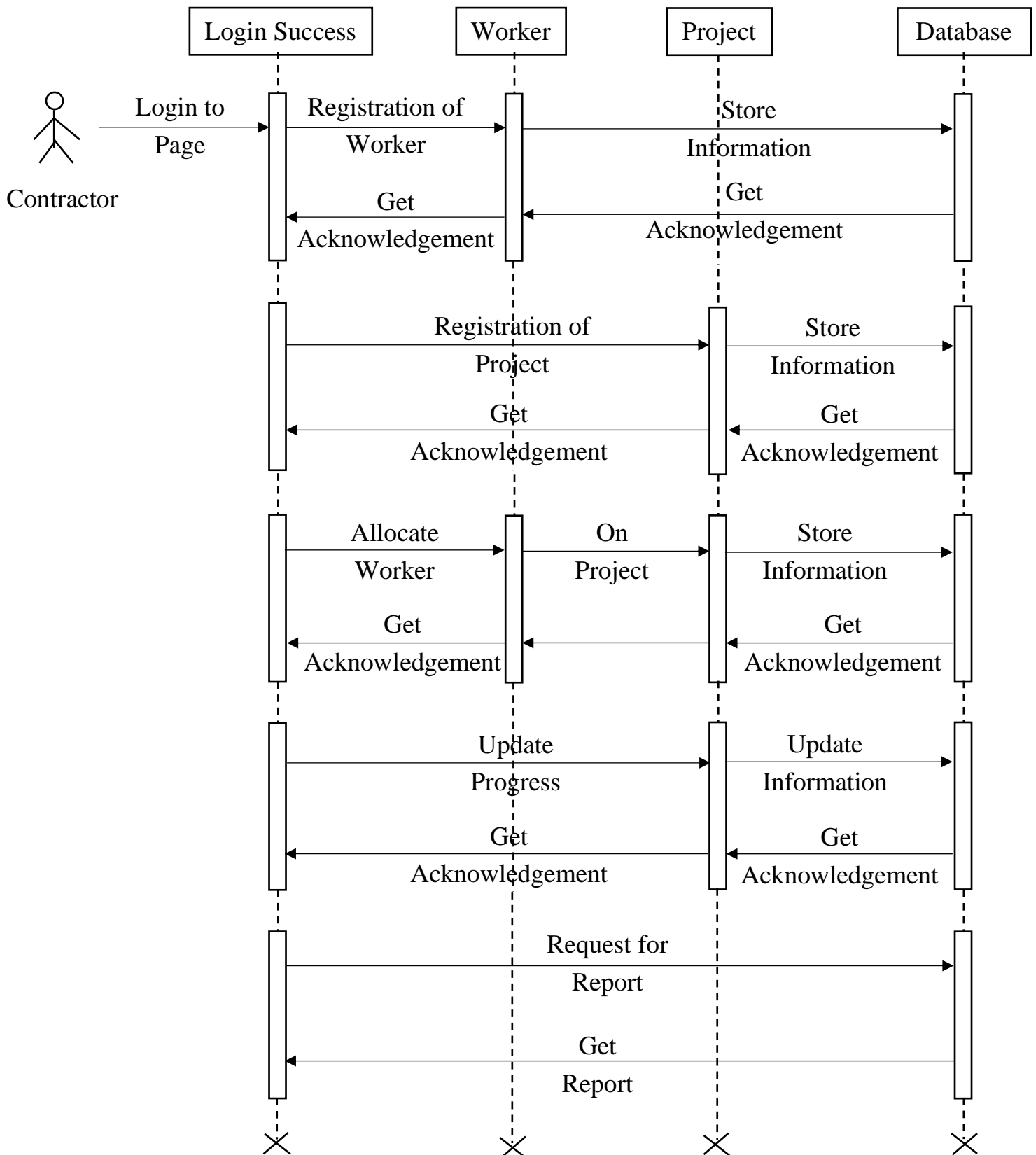
E-R Diagram:



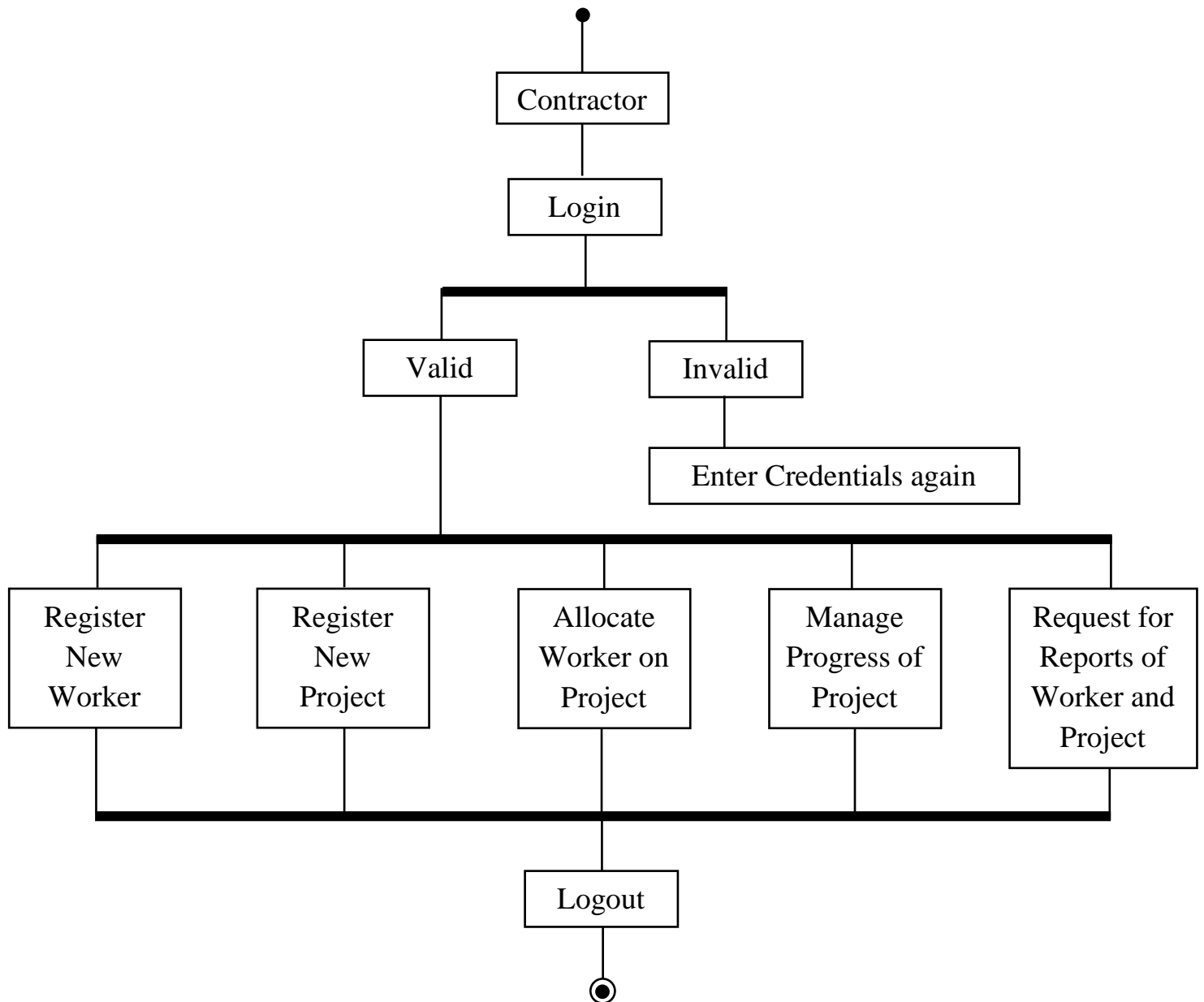
Class diagram:



Sequence Diagram:

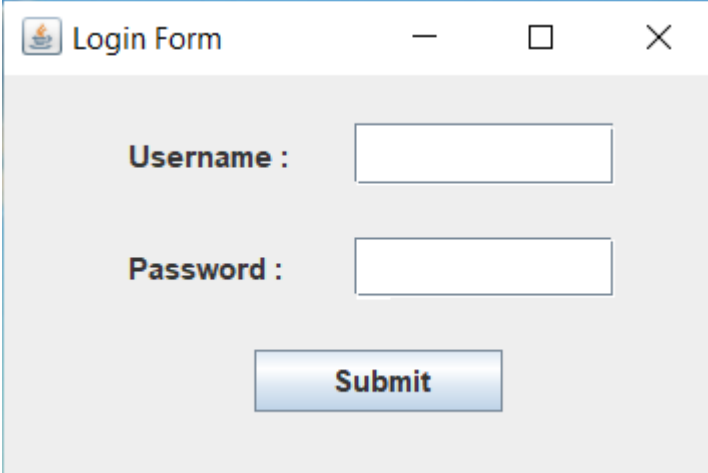


Activity Diagram:



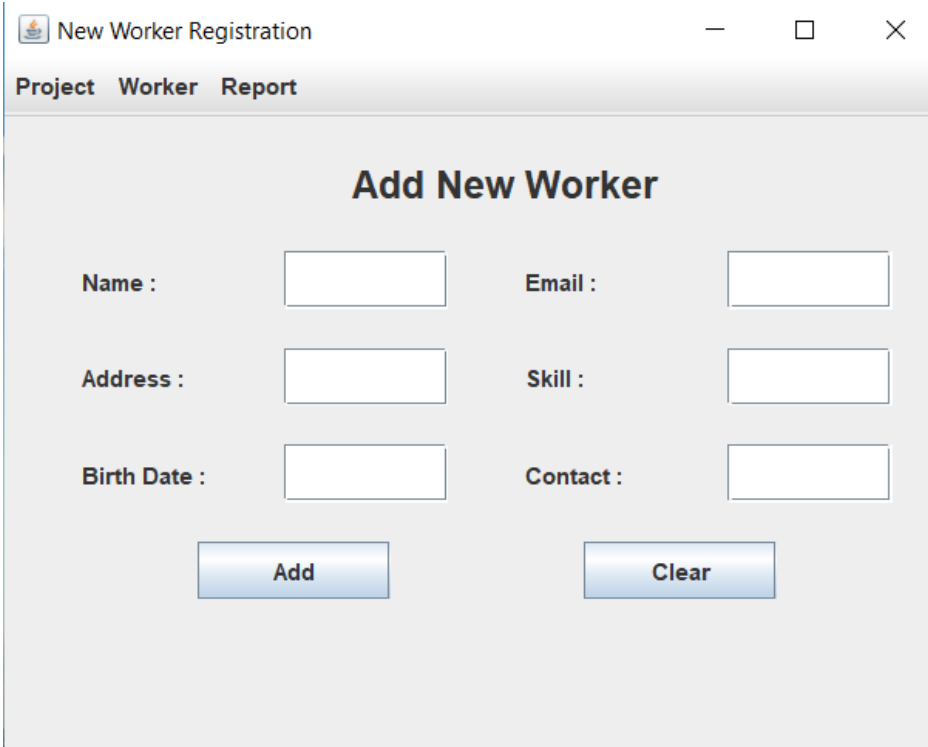
Input Output Screens:

a) Login:



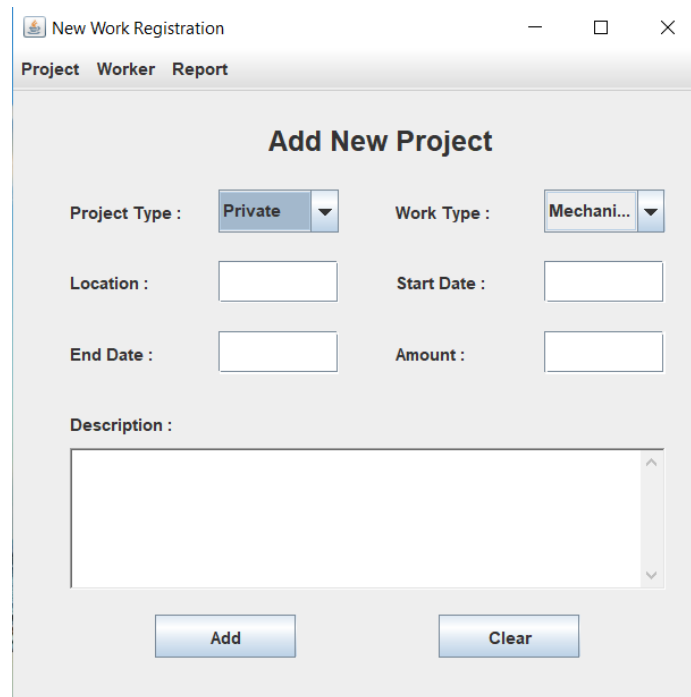
A screenshot of a 'Login Form' window. The window has a title bar with a small icon, the text 'Login Form', and standard minimize, maximize, and close buttons. The main area is light gray and contains two labels: 'Username :' and 'Password :'. Each label is followed by a white rectangular text input field. Below these fields is a blue button with the text 'Submit' in white.

b) Registration of Worker:



A screenshot of a 'New Worker Registration' window. The window has a title bar with a small icon, the text 'New Worker Registration', and standard minimize, maximize, and close buttons. Below the title bar is a tabbed interface with three tabs: 'Project', 'Worker', and 'Report'. The 'Worker' tab is selected. The main area is light gray and contains the heading 'Add New Worker' in bold. Below the heading are six labels arranged in two columns: 'Name :', 'Email :', 'Address :', 'Skill :', 'Birth Date :', and 'Contact :'. Each label is followed by a white rectangular text input field. At the bottom of the form are two blue buttons: 'Add' on the left and 'Clear' on the right.

c) Registration of Project:

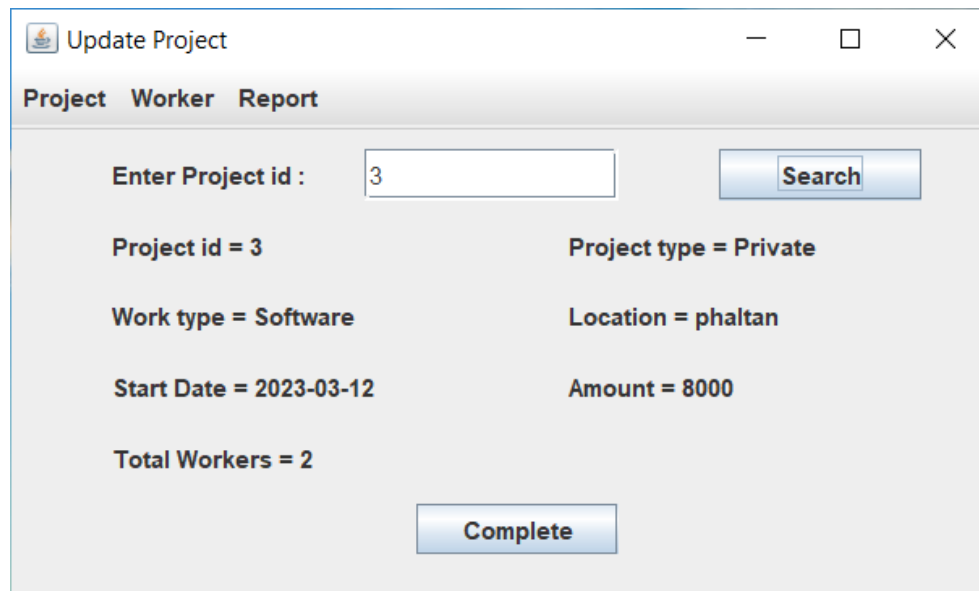


The screenshot shows a window titled "New Work Registration" with a menu bar containing "Project", "Worker", and "Report". The main area is titled "Add New Project". It contains the following fields:

- Project Type :** A dropdown menu with "Private" selected.
- Work Type :** A dropdown menu with "Mechani..." selected.
- Location :** A text input field.
- Start Date :** A text input field.
- End Date :** A text input field.
- Amount :** A text input field.
- Description :** A large text area.

At the bottom, there are two buttons: "Add" and "Clear".

d) Update Project:




The screenshot shows a window titled "Update Project" with a menu bar containing "Project", "Worker", and "Report". The main area displays the following information:

- Enter Project id :** A text input field containing "3".
- Search :** A button.
- Project id = 3**
- Project type = Private**
- Work type = Software**
- Location = phaltan**
- Start Date = 2023-03-12**
- Amount = 8000**
- Total Workers = 2**

At the bottom, there is a "Complete" button.

e) Allocate worker on project:

 Allocation of worker— □ ×

Project Worker Report

Enter Project id :

Search

Project id = 3

Project type = Private

Work type = Software

Location = phaltan

Start Date = 2023-03-01

Amount = 8000

Total Workers :

Skill :
developer ▼

Submit

Id	Name	Address	Skill	Contact
1	pratik more	malad	developer	8956231470
5	vaibhav shinde	baramati	developer	9876543210
7	Harshad Kadam	baramati	developer	8426975130
11	ketan mane	phaltan	developer	9512634780

Enter Worker Id :

Allocate

f) Project Report:

Project Report

Project

Worker

Report

Enter Project id :

Search

Project id = 5

Project type = Private

Work type = Software

Location = pune

Start Date = 2023-03-04

Amount = 15000

Total Workers = 3

Status = completed

Id	Name	Address	Skill	Contact
1	pratik more	malad	developer	8956231470
5	vaibhav shinde	baramati	developer	9876543210
7	Harshad Kadam	baramati	developer	8426975130

Print

g) Worker Report:

Worker Report

Project

Worker

Report

Enter Worker id :

Search

Worker id = 1

Name = pratik more

Email = pratik@gmail.com

Address = malad

Skill = developer

bdate = 2002-07-17

Contact = 8956231470

Status = not available

Id	P_Type	Location	Start Date	status
5	Private	pune	2023-03-04	completed
3	Private	phaltan	2023-03-12	in progress

Print

Future Enhancement:

- Storing health related information of the workers like blood group, age details, height, weight, etc.
- More functionality can be added depending upon the contractor and worker requirements and specifications.
- Helps the contractor to track the attendance data of the worker.
- Hiring a worker on a short-term contract.
- Improve the effectiveness.

Conclusion:

- Overall, we have created system in focus of Contractor and worker management system, this system will helpful to many contractors and workers.
- Created database that will be used to store projects and allocations.
- The aim of the system is to save time, cost and efforts of contractor and worker.

Bibliography:

- Google for problem solving and searching the problem concepts.
- www.google.com
- www.youtube.com
- www.w3schools.com
- www.stackoverflow.com
- Teacher's reference