A PROJECT REPORT

ON

“TraPlaCa - A Guide to Training, Placement and Career”

SUBMITTED BY

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UNDER THE GUIDANCE OF

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SAVITRIBAI PHULE PUNE UNIVERSITY (SPPU)

MASTER OF COMPUTER APPLICATIONS

DR. D. Y. PATIL UNITECH SOCIETY’S

DR. D. Y. PATIL INSTITUTE OF MANAGEMENT AND RESEARCH,

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(Approved by All India Council for Technical Education & Recognized by the Savitribai Phule Pune University)

CERTIFICATE

This is to certify that **Ms. Kusum Pareek** has successfully completed the project on **" TraPlaCa - A Guide to Training, Placement and Career "** as a partial fulfillment of his **Master of Computer Applications (MCA)** under the curriculum of **Savitribai Phule Pune University, Pune** for the academic year 2021-22.

Dr. Shraddha Dudhani Bhilare	Dr. Shikha Dubey	Dr. Meghana
Internal Guide	**H.O.D. MCA**	**Director**

Signature	Signature
Name	Name
Internal Examiner	**External Examiner**
Date :	Date :

Acknowledgement

The success and final outcome of this project required a lot of guidance and assistance from many people and we are extremely privileged to have got this all along the completion of our project. All that we have done is only due to such supervision and assistance and we would not forget to thank them.

We sincerely thank to the Director Dr. Meghana Bhilare, Associate Director Dr. Vishal Wadajkar, HOD Dr. Shikha Dubey, Mrs. Swati Narkhede and to my project guide Dr. Shraddha Dudhani, for providing us an opportunity to do the project work and give us all support and guidance which made us completes the project duty. We are extremely thankful to them for providing such a nice support and guidance, although they had a busy schedule managing the corporate affairs.

We owe a deep gratitude to our project guides for taking keen interest in our project work and guiding us all along, till the completion of our project work by providing all the necessary information for developing a good system.

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Table of Content

Introduction

“E-Xpenser” is a web-based personal expense management application. This replaces the conventional outcry method of using pen and paper and takes care of the management at a digital level.

The manual tracking of expenses and keeping the record of every expense is cumbersome. It provides an instant method of record keeping and calculates the sum on the go. It provides facilities to keep the records of the expenses along with all the required details. Furthermore, it has the facilities to graphically represent all the transactions and expenses on the basis of time periods and expense categories.

It helps in saving time and removes the hassle of remembering all the transactions by the user. Beautiful visualizations provide a birds-eye view of the total sum expended.

1.1 Problem Definition

The manual tracking of expenses and keeping the record of every expense is cumbersome. This project is mainly developed to provide an easy and quick way for the user to monitor their expenses.

It removes the need for pen-and-paper-based tracking and calculation at the end of the day or the month, when there is the possibility of missing small expenses.

1.2 System Overview

In the developed system, the user can track everyday expenses and keep an eye on their spending habits. It provides an overview of the total expenditure divided into various categories sorted by periods. This will help the user to analyze the expenses and act accordingly.

The user can view the status of their total expenses and the total amount spent categorized in periods of the day, month, week, and year and categorized in the categories such as food, commute, education, entertainment, shopping, and misc.

1.3 Definitions, acronyms, and abbreviations

OS	Operating System
CPU	Central Processing Unit
UI	User Interface
IDE	Integrated Development Environment
RAM	Random Access Memory

1.4 Project Functionalities

- **User Registration**

  Users can register in the system using the Sign-Up Form. Users have to enter their name, password and username. If the user already exists in the system or not using an email id. If the user is already registered in the system he has to enter login credentials to access his page.

- **Transactions Operation**

  Users can add daily transactions categorized as expense and revenue. In the expense category we have various other sub categories as food and drinks, entertainment, shopping etc. Each expense had a title, amount, category, date and description associated with it.

- **Report Generation**

  Users can generate reports for their transactions done in various formats which include, list of transactions, summary of transactions.

1.5 Operating Environment:

1. Client Side Requirements:

Hardware	Software
Processor: x86 or x64	Operating System: Windows 7 and above, Linux
Speed: 1.1 GHz and above	Web Browser: Google Chrome, Mozilla Firefox, IE 11,etc.
RAM: 1 GB and above	
Hard Disk: 3GB and above	

2. Server Side Requirements:

Hardware	Software
Processor: Core i3 and above	Operating System: Windows,Linux
Speed: 2GHz and above	Server: Node Js
RAM: 2GB and above	Database: MongoDB
Hard Disk: 500 GB and above	

Proposed System

2.1 Scope of the Proposed System

This system allows the users of the system to track and manage their daily expenses digitally without the overhead of manually tracking them using traditional methods.

- This project can be used individually or in family with shared credentials.
- All the records can be accessed exclusively by the user.
- It can be used anytime and anywhere.
- Better control of data through centralized data systems and management.

2.2 Objectives of the System

- Providing the facility for users to easily track their expenses.
- The main purpose of designing the TraPlacCa is to reduce the time taken to manually track transactions.
- Provide a free, reliable and flexible environment for users to track their spending habits.
- To provide a comprehensive computerized system.

2.3 Feasibility Study

A feasibility study is carried out to select the best system that meets performance requirements.

Feasibility is the determination of whether or not a project is worth doing. The process followed in making this determination is called a feasibility study. This type of study determines if a project can and should be implemented or not.

Since the feasibility study may lead to the commitment of large resources, it becomes necessary that it should be conducted competently and that fundamental errors of judgment are made.

Feasibility analysis involves the study of the economic, technical and behavioral factors in the system.

1. **Technical Feasibility**: - Checks for the existing hardware and software and to what extent it can support a proposed addition. Since the system is mainly for jobs in the IT sector, every applicant is assumed to have computer and internet access . So, the proposed system is technically feasible.

2. **Economic Feasibility**: - Checks for the cost-benefit analysis of the candidate system. The procedure is to determine the benefits and savings that are expected from a system and compare them with the cost.The system may have ads and paid training and career guidance resources.

3. **Behavioral Feasibility**: - Considers the reaction of the users to interface and easy navigation.Thus, the proposed system is technically, economically as well as behaviorally feasible to be developed and implemented.

Thus, the proposed system is technically, economically as well as behaviorally feasible to be developed and implemented.

2.4 User Requirement Specification:

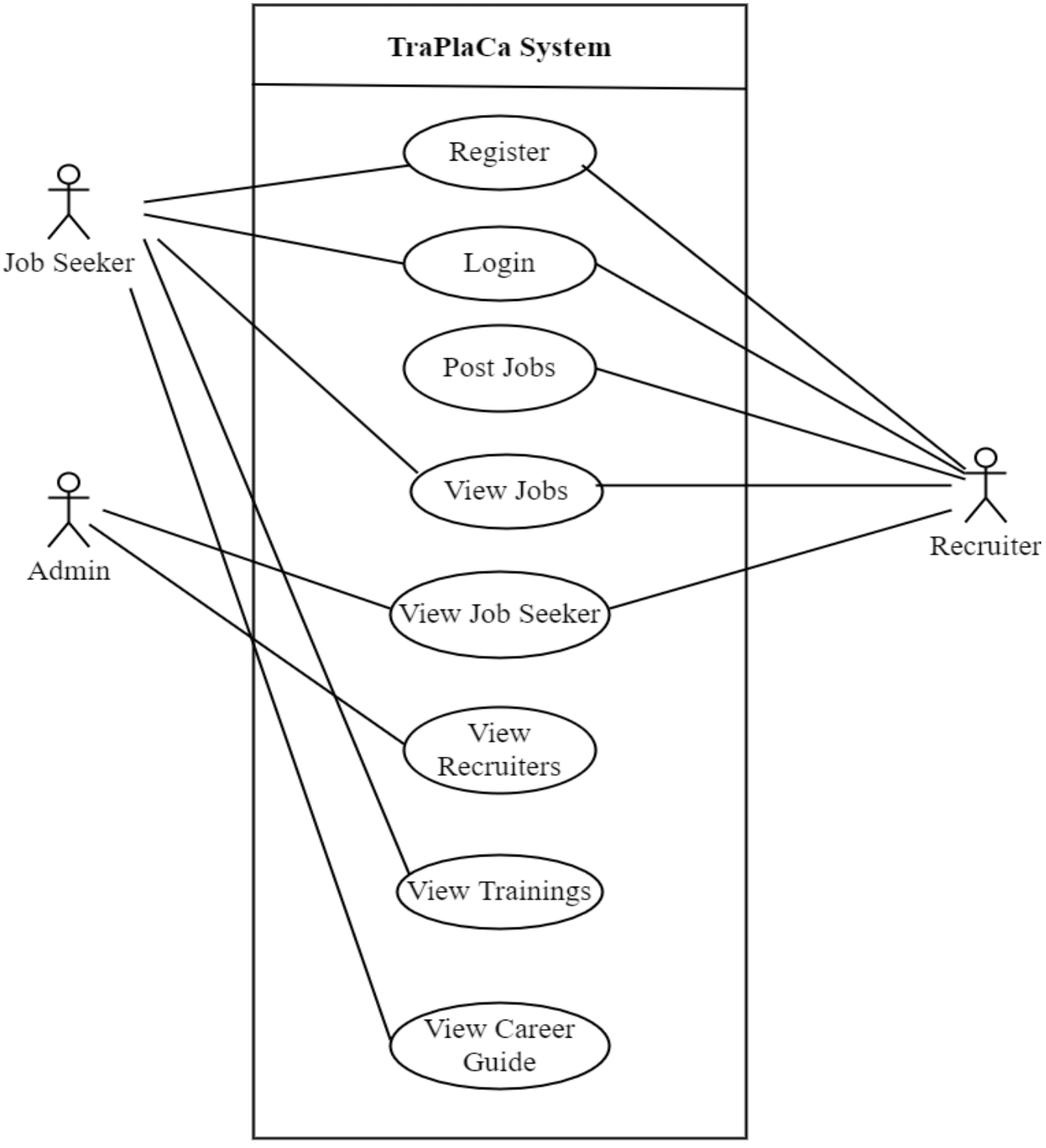
According to a survey, the following are some user's requirements:

- System should store all the information about the transactions and user for the login and registration process.
- System should have security features for login id and password like recovery of password or login id.
- The Graphical User Interface of the system should be creative and easy to use.
- System should allow them to export their data.

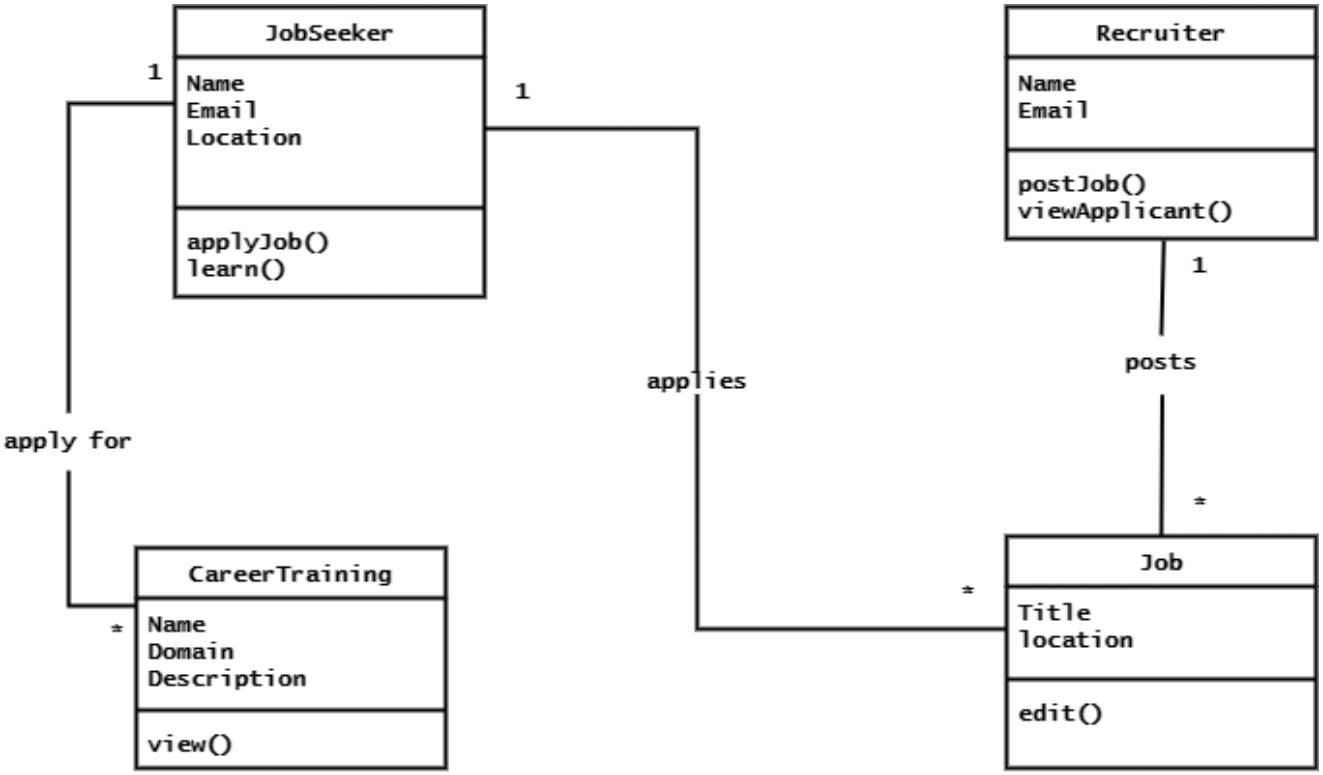
System Analysis & Design

System Analysis is the process of gathering and interpreting facts, diagnosing problems and the information about the System to recommend improvements to the system. It is a problem solving activity that requires intensive communication between the system users and system developers. System analysis is concerned with becoming aware of the problem, identifying the relevant and decisional variables, analyzing and synthesizing the various factors and determining an optimal or at least satisfactory solution to a problem.

3.1 Use Case Diagram

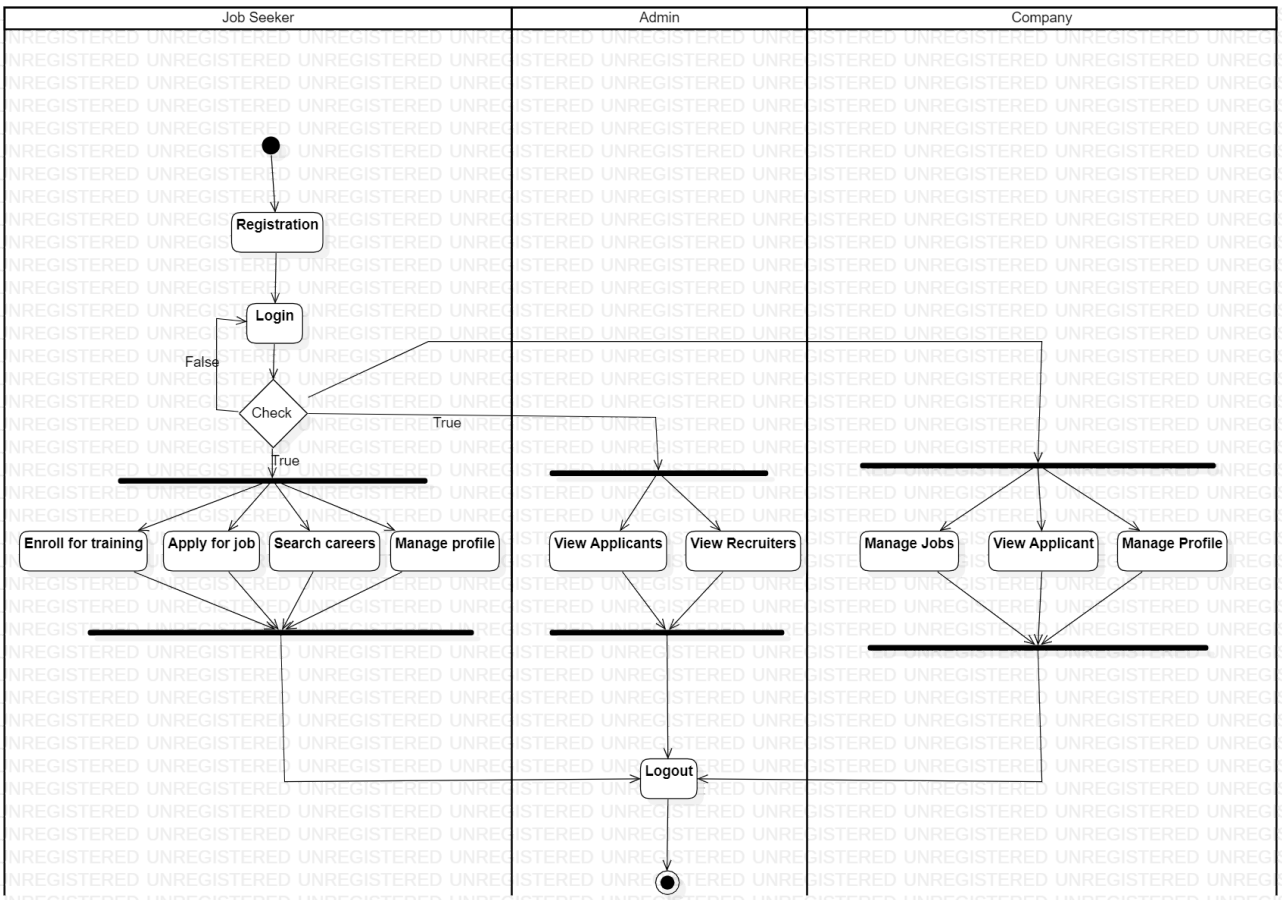


3.2 Class Diagram

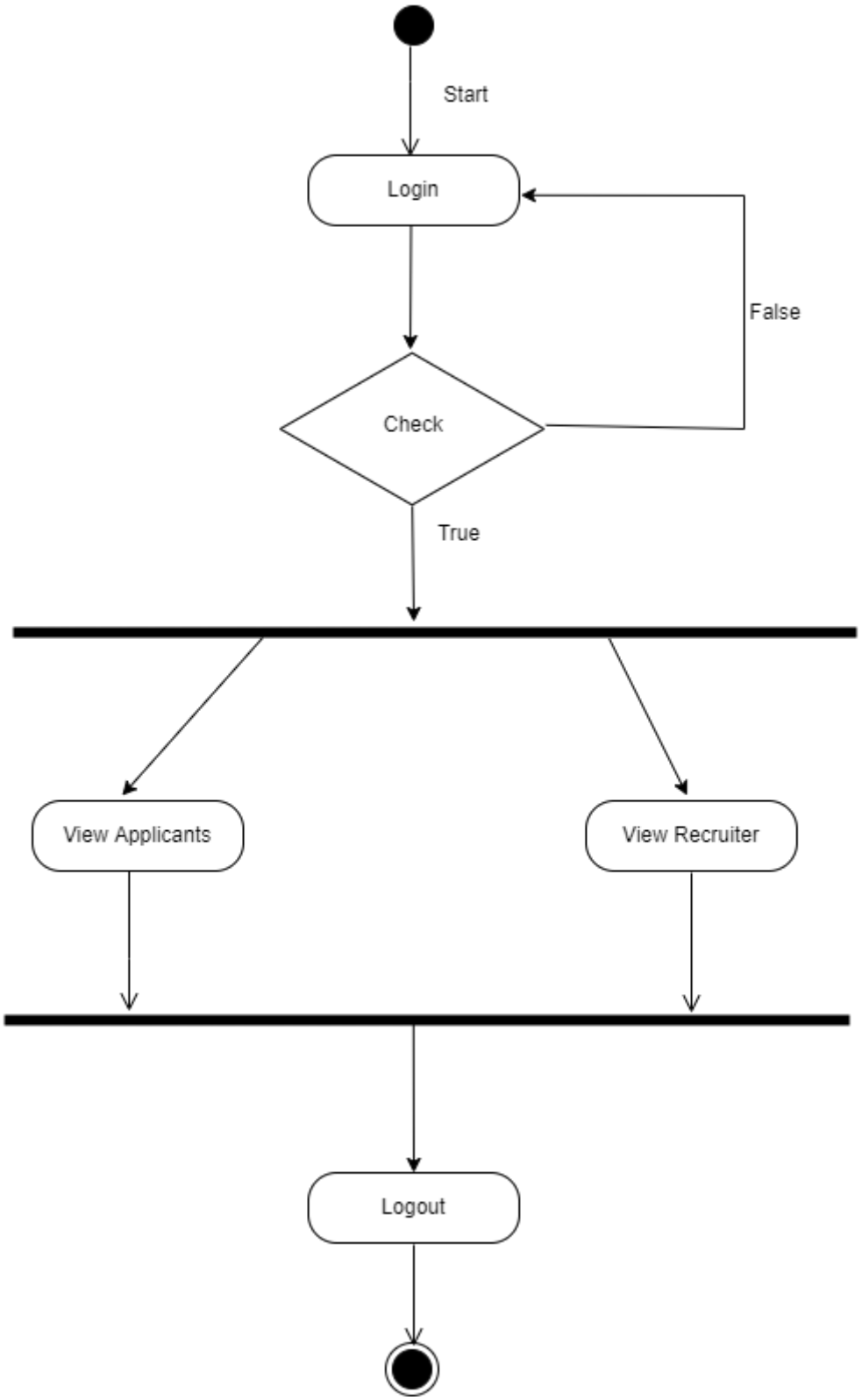


3.3 Activity Diagram

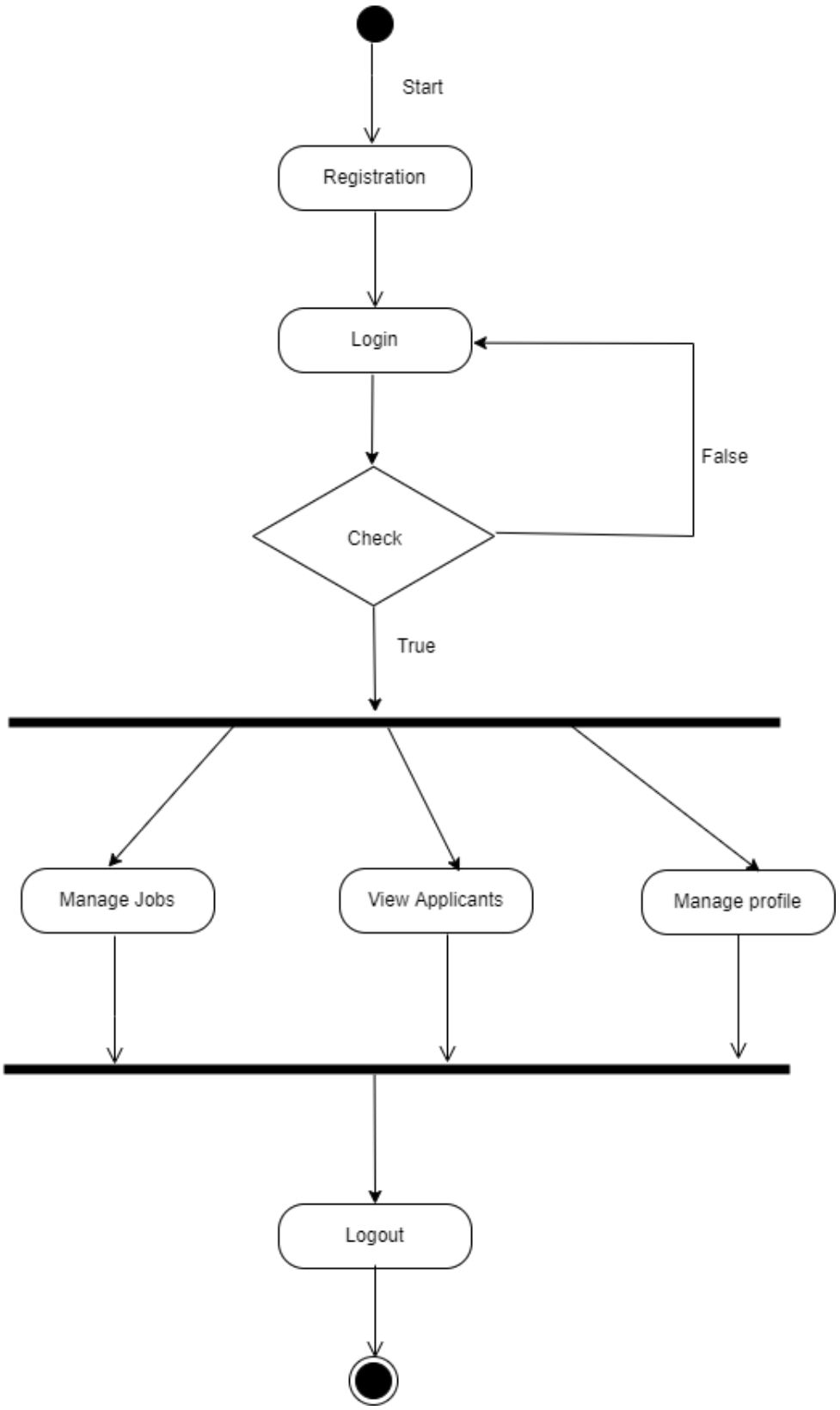
1. Swimlane Activity Diagram:



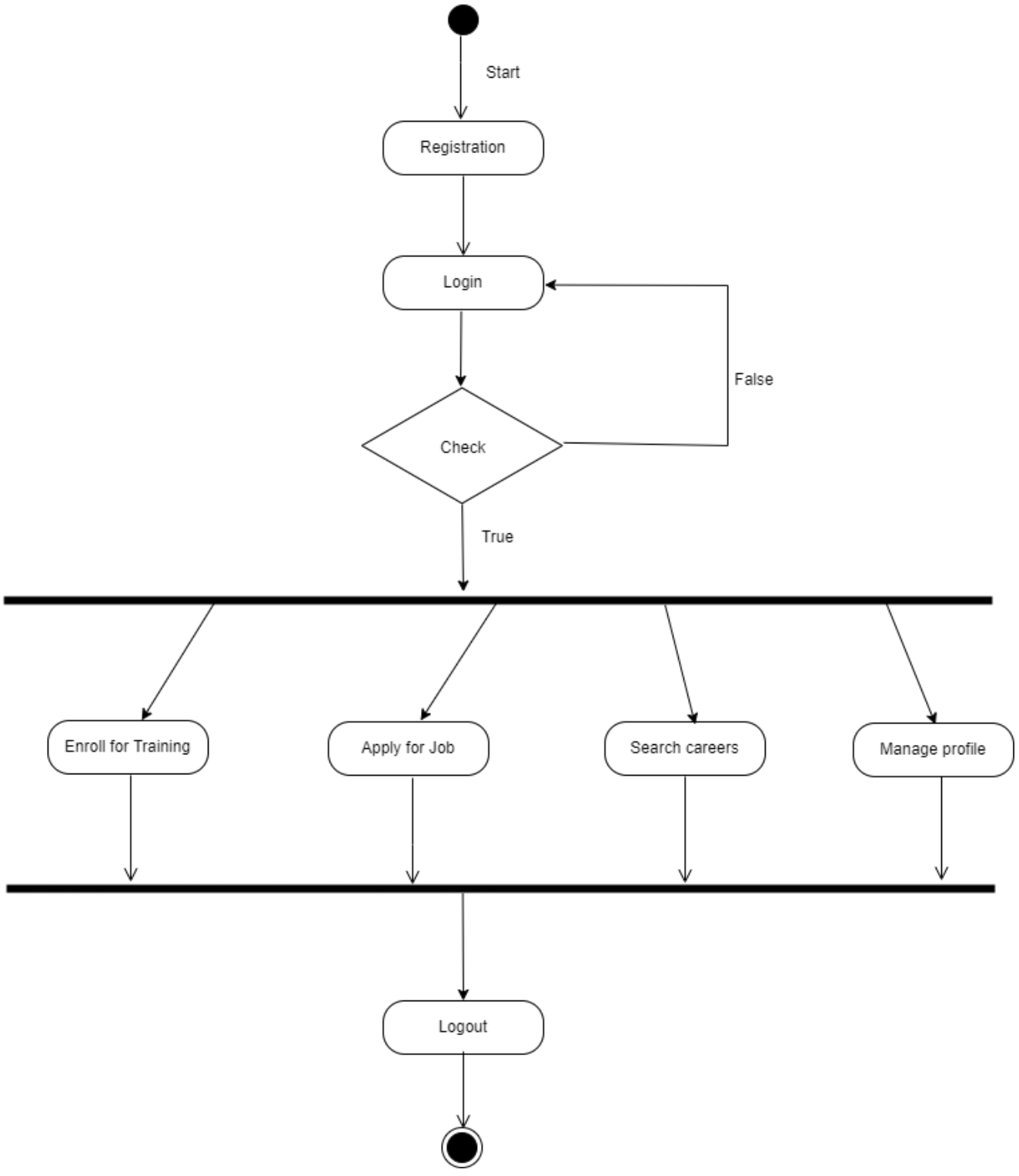
2. Admin:


Start
Login
False
Check
True
View Applicants
View Recruiter
Logout

3. Company:

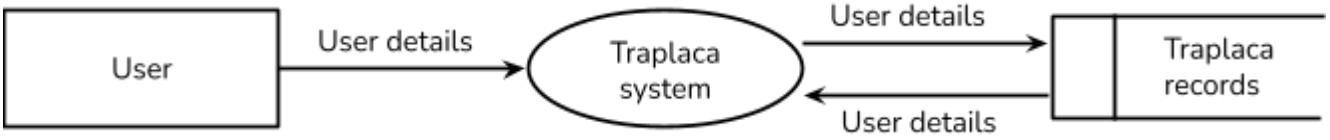

Start
Registration
Login
False
Check
True
Manage Jobs
View Applicants
Manage profile
Logout

4. Job Seeker:

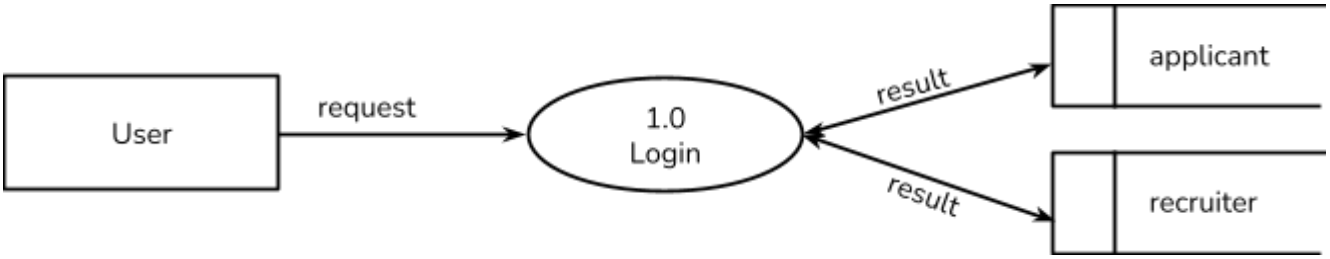

Start
Registration
Login
False
Check
True
Enroll for Training
Apply for Job
Search careers
Manage profile
Logout

3.4 Data Flow Diagram

1. **TraPlaCa System:**

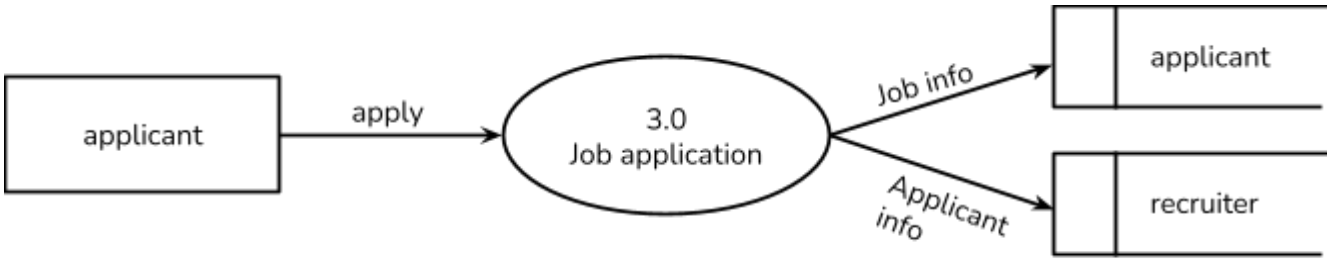


2. **Login Process:**



3. **Registration Process:**

4. Job Application



5. Admin

3.5 Data Dictionary

1. Applicant Table:

Name	Datatype	Size	Constraints	Description
st_id	bigint	20	Primary Key	Stores unique Job Seeker id
name	varchar	255	Not Null	name of the job seeker
course	varchar	255	Not Null	Stores name of course
email	varchar	255	Not Null	Stores the email of Job Seeker
pass	varchar	255	Not Null	Stores the password of Job Seeker
location	varchar	255	Not Null	Stores the preferred location
resume	blob		Not Null	Stores the resume file
profile picture	blob		Not Null	Stores the Job Seeker image
job_id	int		Null	Stores the applied job id

2. Recruiter Table:

Name	Datatype	Size	Constraints	Description
rec_id	bigint	20	Primary Key	Stores unique recruiter id
name	varchar	255	Not Null	Stores name of the recruiter
email	varchar	255	Not Null	Stores recruiter email
password	varchar	255	Not Null	Stores login password
contact	varchar	255	Not Null	Stores the address and contact
rec_address	varchar	255	Not Null	Stores address of company

3. Job Post Table:

Name	Datatype	Size	Constraints	Description
job_id	bigint	20	Primary Key	Stores unique job id
rec_id	varchar	20	Foreign Key	Stores unique recruiter id
title	varchar	255	Not Null	Stores the job title
desc	varchar	255	Not Null	Stores the job description
last_date	date		Not Null	Stores last application date
post_image	BLOB		Not Null	Stores image relevant to job

4. Course Table:

Name	Datatype	Size	Constraints	Description
course_id	bigint	20	Primary Key	Stores unique course id
course_name	varchar	20	Not Null	Stores course name

5. Admin Table:

Name	Datatype	Size	Constraints	Description
id	int		Primary Key	Stores unique admin id
ad_name	varchar	128	Not Null	Stores admin name
ad_email	varchar	128	Not Null	Stores admin email
add_pass	varchar	128	Not Null	Stores admin password

6. Career_Training Table:

Name	Datatype	Size	Constraints	Description
id	int		Primary Key	Stores unique id
type	varchar	128	Not Null	Stores type of details
links	varchar	128	Not Null	Stores link to job careers
title	varchar	128	Not Null	Stores title or job or career options

User Manual

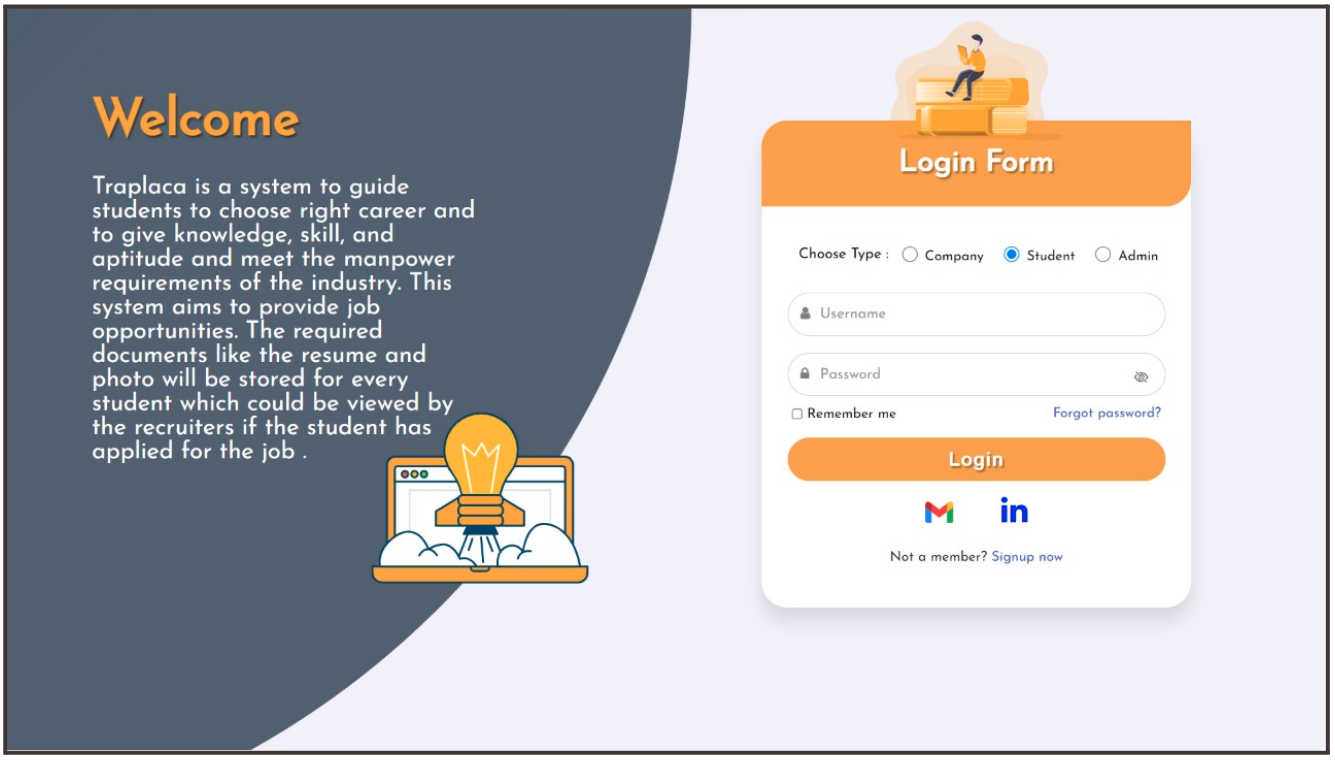
Operational Instructions:

1. The system requires a stable internet connection to use features of the TraPlaCa system.

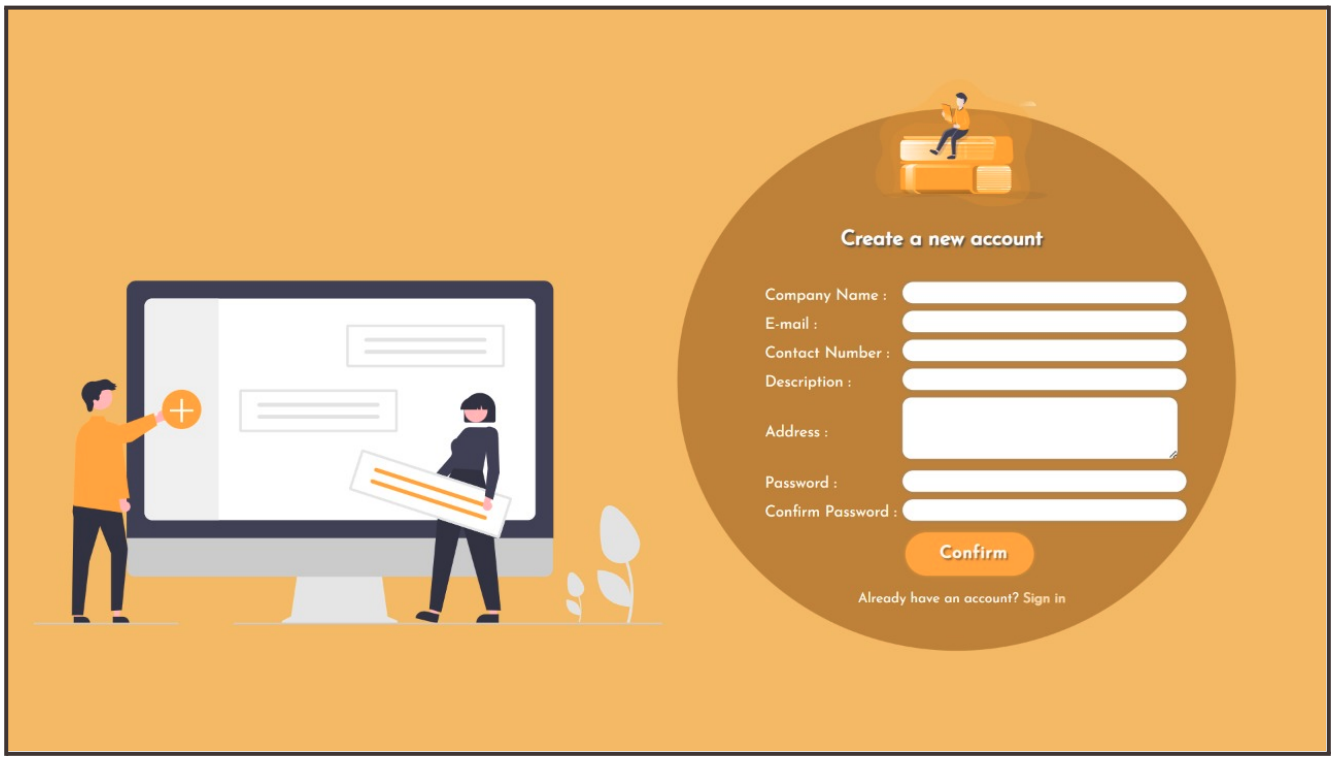
2. Types of users:
    a. Admin:
        i. Admin of the system is responsible for the operations in TraPlaCa.
        ii. Admin can view details about registered Job Seekers and companies in the TraPlaCa sytem.
    b. Company:
        i. Companies can register on the website through the signup form provided in TraPlaCa.
    c. Job Seeker:
        i. Job Seekers can register and give their details with documents like resumes and photos through a profile section provided in TraPlaCa.
        ii. TraPlaCa will verify whether a Job Seeker is already registered by checking the Job Seeker's email id.

USER INTERFACE SCREENS

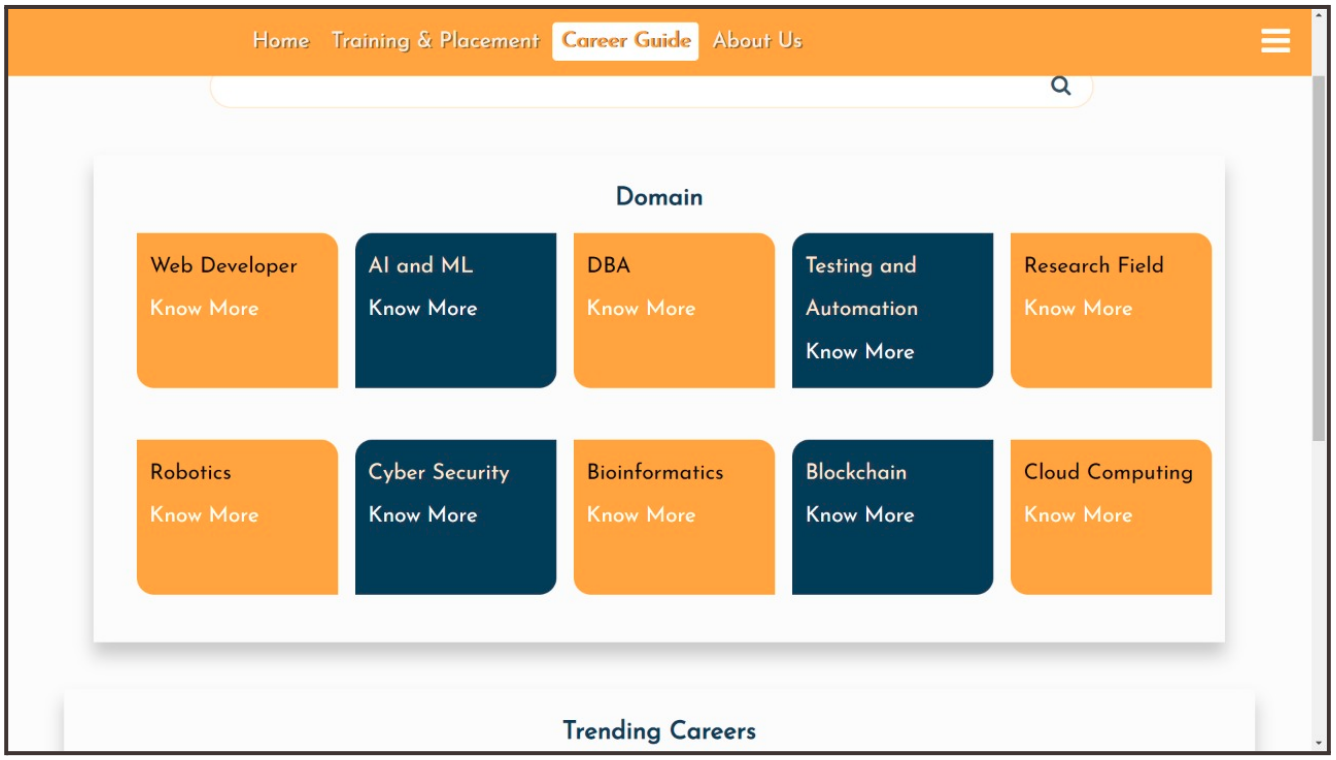
1. Login Page:



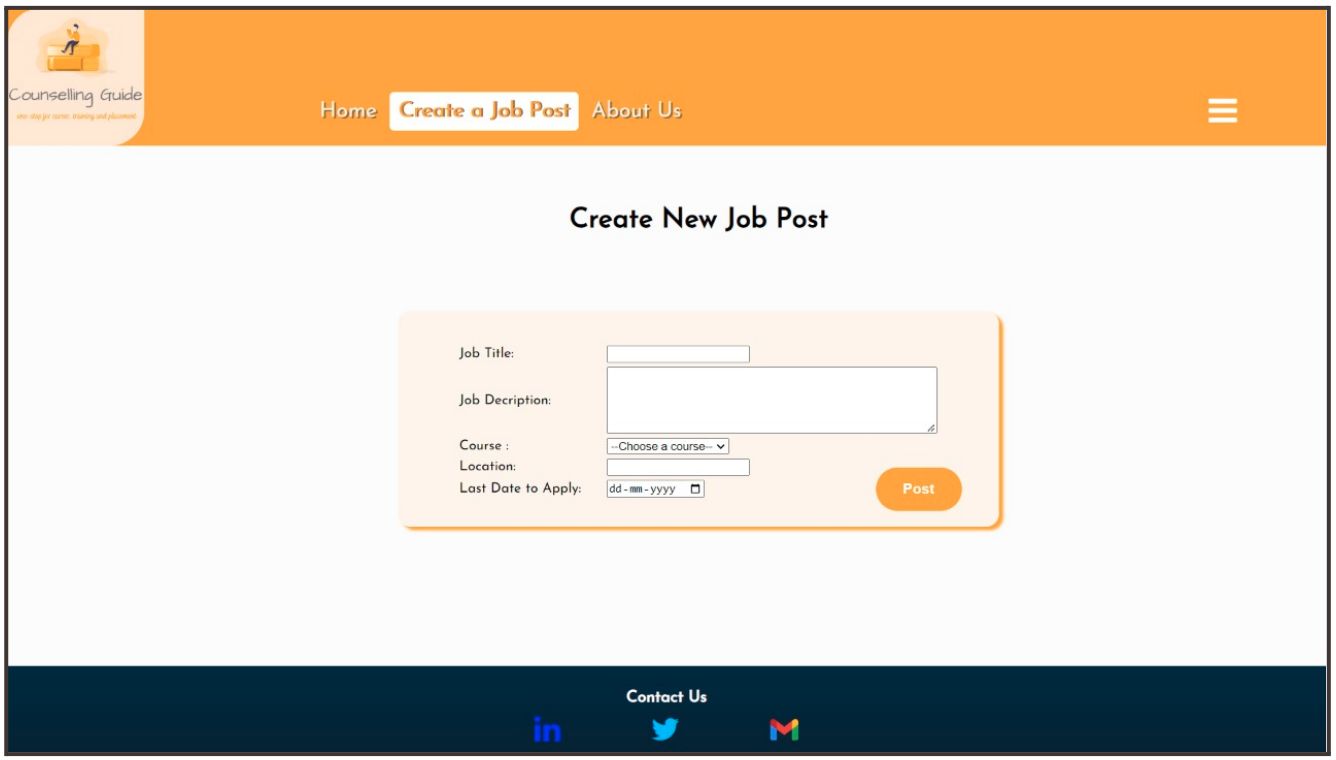
2. Company -SignUp:



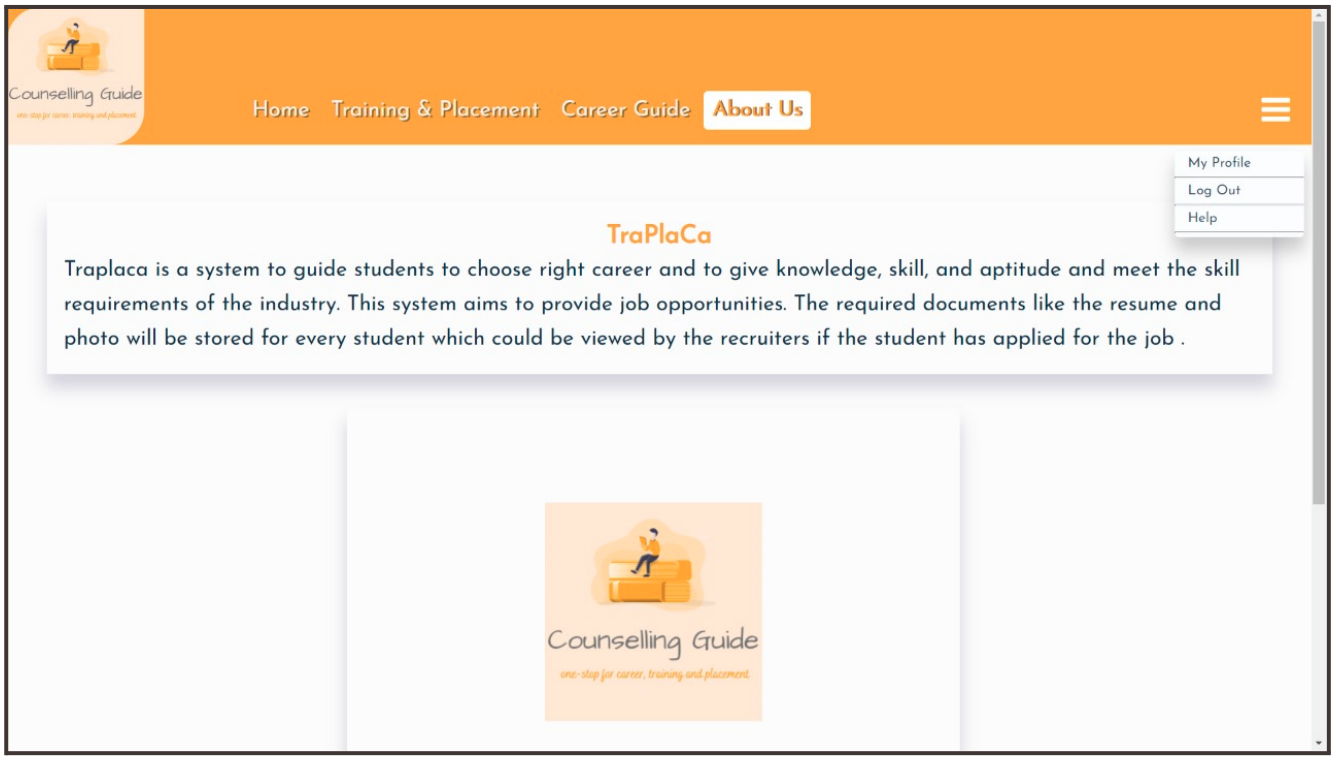
3. Student - Career Guide:



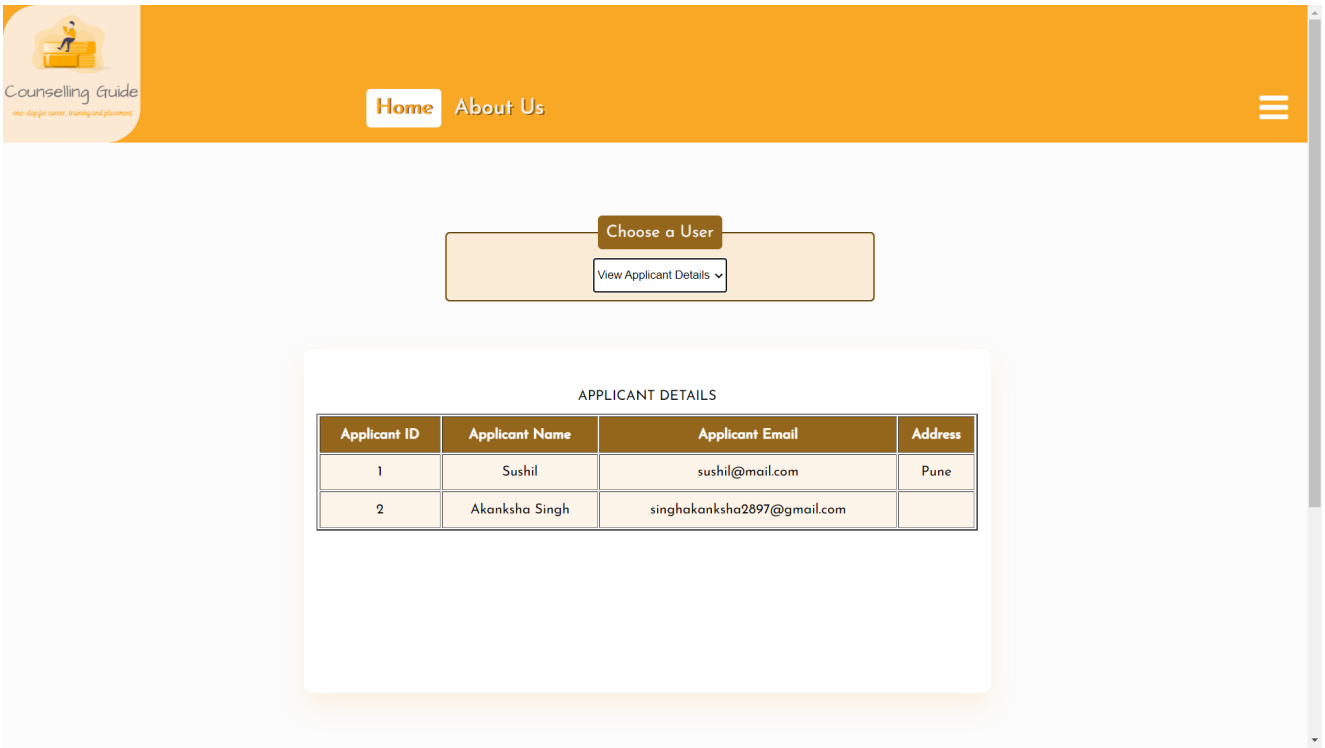
4. Create a Job Post:



5. About Us:



6. Admin Home Page:



System Limitation

During the course of all project work, certain boundaries were identified. The following points are briefly expressed so that the person who may be involved in future improvement will have an overview of the process of this project.

- Currently, there is no feature to verify if the registered Company is genuine.Similarly a job seeker's genuinity is also not verified.
- Login through social media accounts is not allowed.
- Job Seeker will be notified if his application is accepted through email by company only.There is no involvement of the system in this process.

Future Enhancement

- Paid courses can be added to boost the revenue from the system.
- Using the AI/ML career guidance module can be enhanced to improve the recommendation and trending courses.
- Verification of companies and job seekers registering on the website so as to maintain the trustworthiness and genuinity of other users could also be implemented to escalate the system.

Conclusion

- The system developed is able to meet all the basic requirements.
- The development and implementation of this system has been carried out successfully.
- Advancing features of the present system are added, considering the present system design has been developed.
- It is very simple and comfortable to understand at all levels.
- The system was tested, validated and found to be a working prototype.
- The system is flexible and all the modules can be integrated and modified easily.
- TraPlaCa provides training, career guidance and job opportunities all at one place which saves time for job seekers.

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  - https://www.javatpoint.com/java-tutorial
  - https://icons8.com

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