# BIRLA VISHWAKARMA MAHAVIDHYALAYA

(ENGINEERING COLLEGE)

(AN AUTONOMOUS INSTITUTION)

INFORMATION TECHNOLOGY DEPARTMENT 4IT33 – MAJOR PROJECT

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# INTRODUCTION

OneDesk is an all-in-one business platform that combines essential tools to streamline operations and improve efficiency. It includes modules for recruitment management, allowing businesses to track applicants, manage interviews, and handle onboarding seamlessly. Additionally, it helps track work hours, manage payroll, schedule tasks and meetings, and securely store files—all in one place. By replacing multiple separate tools, OneDesk saves time, reduces errors, and enhances collaboration, making it easier for teams to stay organized and productive.

# PROBLEM

- **TOOL OVERLOAD** – BUSINESSES RELY ON MULTIPLE SEPARATE TOOLS FOR DIFFERENT TASKS, LEADING TO INEFFICIENCY AND CONFUSION.
- **TIME WASTED SWITCHING APPS** – CONSTANTLY MOVING BETWEEN DIFFERENT SOFTWARE SLOWS DOWN PRODUCTIVITY.
- **DATA FRAGMENTATION** – IMPORTANT FILES AND INFORMATION ARE SCATTERED ACROSS DIFFERENT PLATFORMS, MAKING IT HARD TO FIND WHAT'S NEEDED.
- **COMMUNICATION GAPS** – TEAM MEMBERS STRUGGLE TO STAY ALIGNED WHEN USING MULTIPLE TOOLS THAT DON'T INTEGRATE WELL.
- **RECRUITMENT INEFFICIENCIES** – HIRING PROCESSES ARE OFTEN SLOW AND DISORGANIZED WHEN MANAGED THROUGH SEPARATE TOOLS.
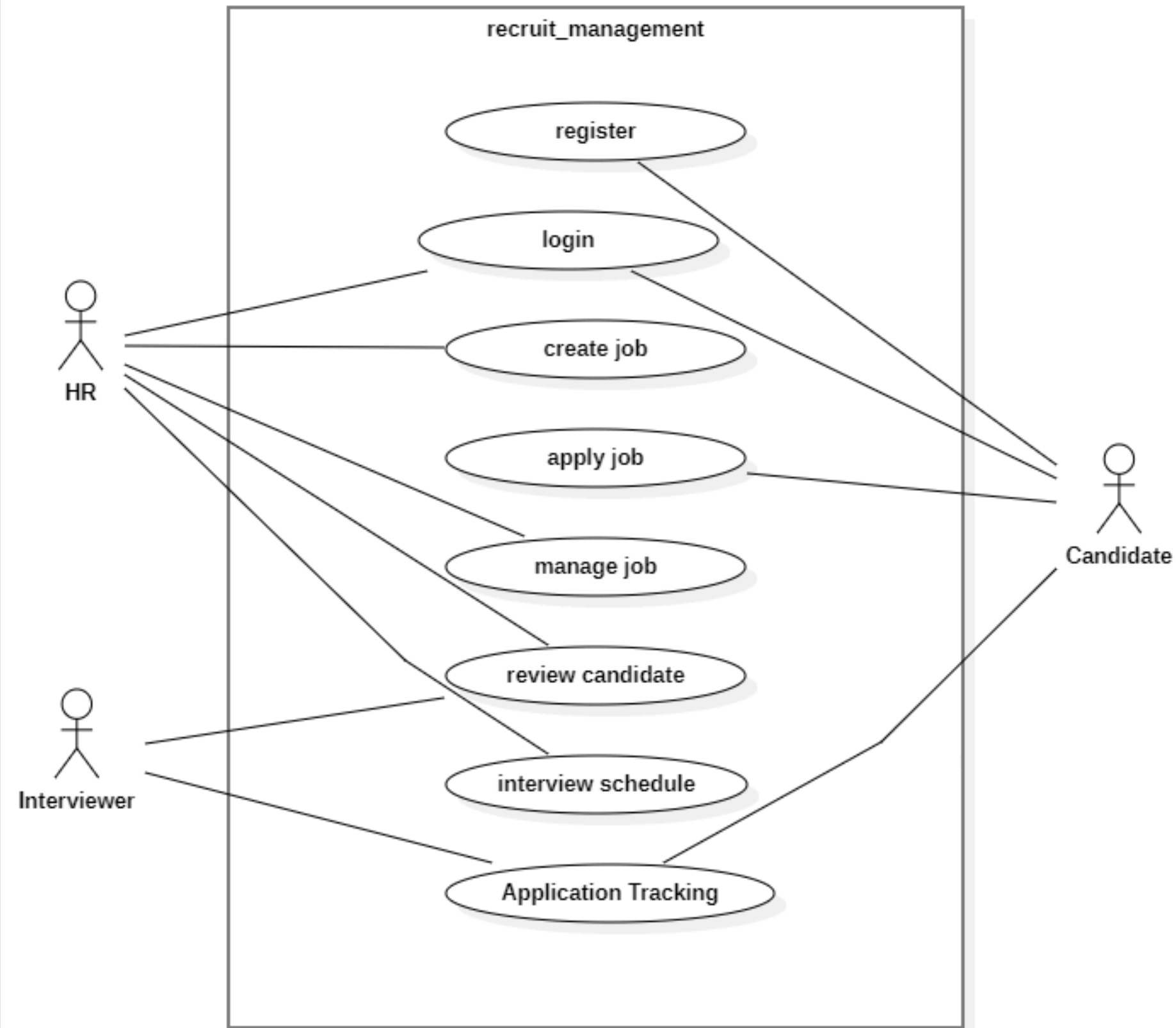
# MODULES

- **INDIVIDUAL SESSION**:- FACILITATES PERSONALIZED, BI-WEEKLY OR PERIODIC REPORTING BETWEEN HR AND EMPLOYEES.

- **REQUEST TRACKING** :- ALLOWS EMPLOYEES TO SUBMIT REQUESTS FOR RESOURCES, EQUIPMENT, OR ANY OTHER NEEDS TO THEIR HIGHER AUTHORITIES.

- **PRESENCE MODULE**:- ALLOWS TRACKING OF AN EMPLOYEE PRESENCE.

- **CHAT MODULE** :- FACILITATES SEAMLESS COMMUNICATION AMONG TEAM MEMBERS, ENABLING THEM TO COLLABORATE EFFECTIVELY IN REAL TIME.

- **TASK TRAIL** :- IT ALLOWS TEAMS TO MANAGE AND MONITOR TASKS EFFICIENTLY.

- **OCCASION MODULE** :- HELPS MANAGE COMPANY EVENTS AND OCCASIONS, WHETHER DEPARTMENT-SPECIFIC OR ORGANIZATION-WIDE.

- **RECRUITMENT MANAGEMENT** :- STREAMLINES THE HIRING PROCESS BY TRACKING APPLICANTS, MANAGING INTERVIEWS, AND FACILITATING SEAMLESS ONBOARDING.
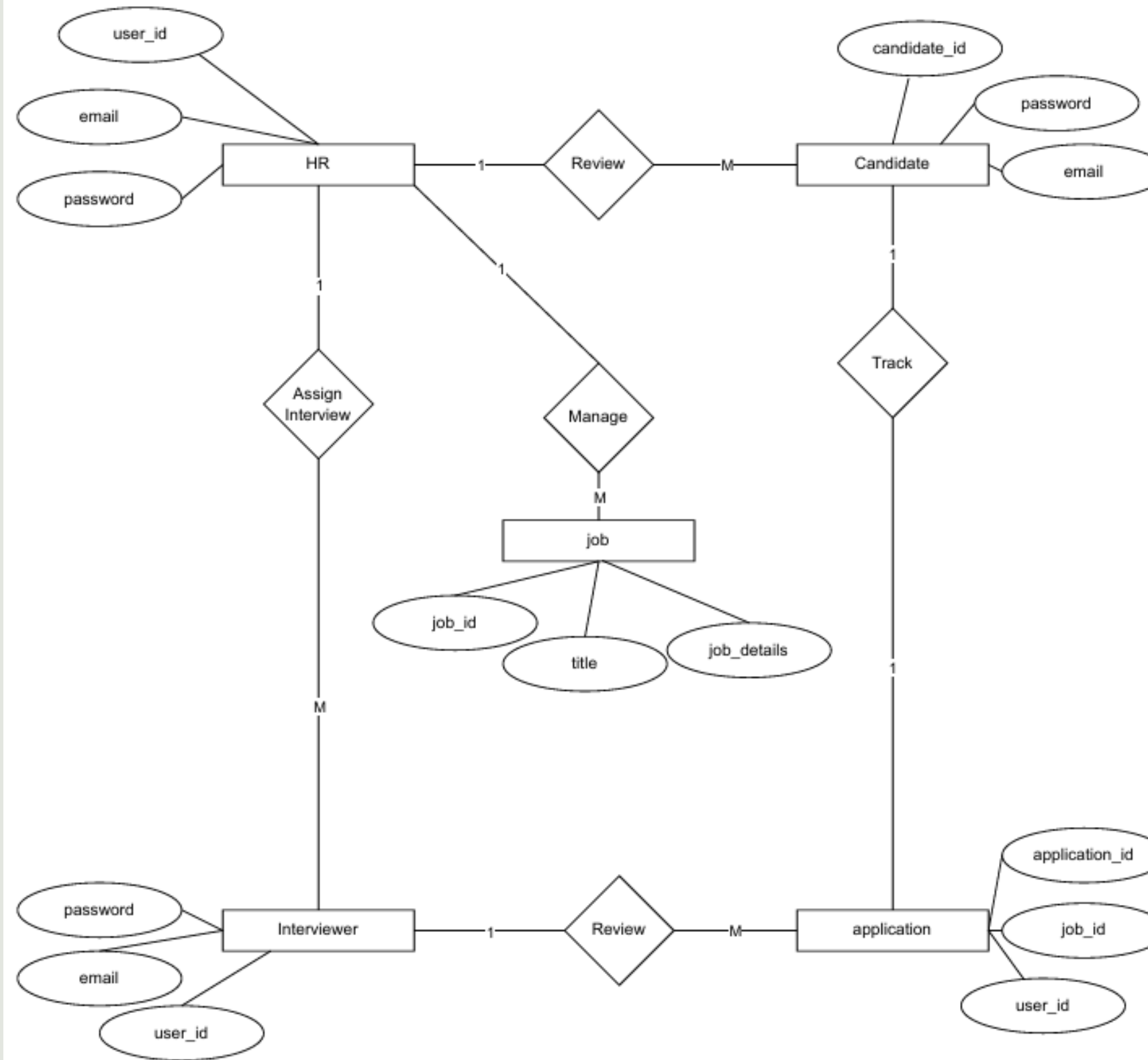
# RECRUIT MODULES

- **AUTHENTICATION & USER MANAGEMENT –** ENABLES SECURE USER REGISTRATION, LOGIN, AND ROLE-BASED ACCESS, WITH FEATURES LIKE PASSWORD RESET, OTP AUTHENTICATION, AND PROFILE MANAGEMENT.

- **JOB MANAGEMENT MODULE –** ALLOWS HR TO CREATE AND MANAGE JOB POSTINGS WHILE ENABLING CANDIDATES TO SEARCH, FILTER, AND APPLY FOR JOBS WITH THEIR RESUMES AND COVER LETTERS.

- **APPLICATION TRACKING & MANAGEMENT –** PROVIDES REAL-TIME TRACKING OF APPLICATION STATUSES FOR CANDIDATES, WITH HR HAVING THE ABILITY TO REVIEW, SHORTLIST, AND SEND AUTOMATED STATUS NOTIFICATIONS.

- **HR MODULE –** EMPOWERS HR TO MANAGE JOB POSTINGS, APPLICATIONS, INTERVIEW ASSIGNMENTS, HIRING REPORTS, AND INTERVIEW SCHEDULING EFFICIENTLY.

- **INTERVIEWER MODULE –** ALLOWS INTERVIEWERS TO VIEW ASSIGNED CANDIDATES, RECEIVE INTERVIEW SCHEDULES, AND PROVIDE FEEDBACK OR REVIEWS ON CANDIDATES' PERFORMANCE.
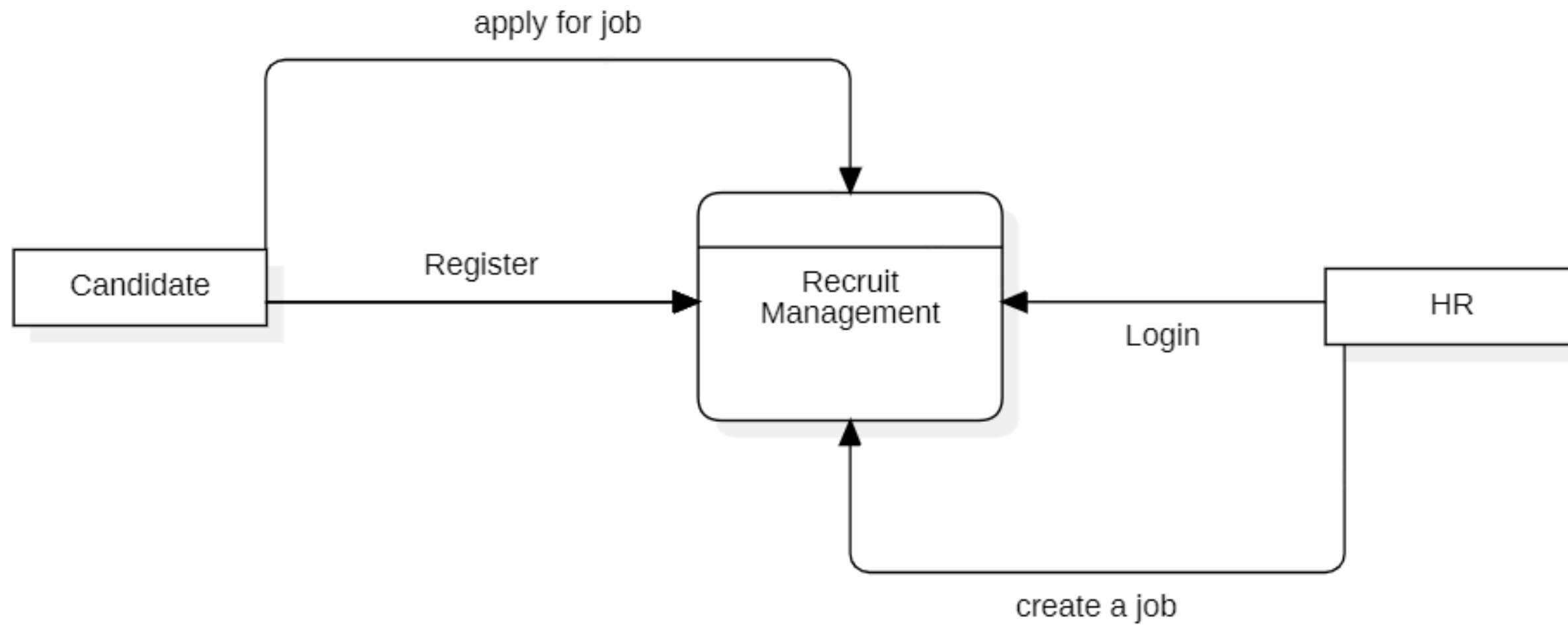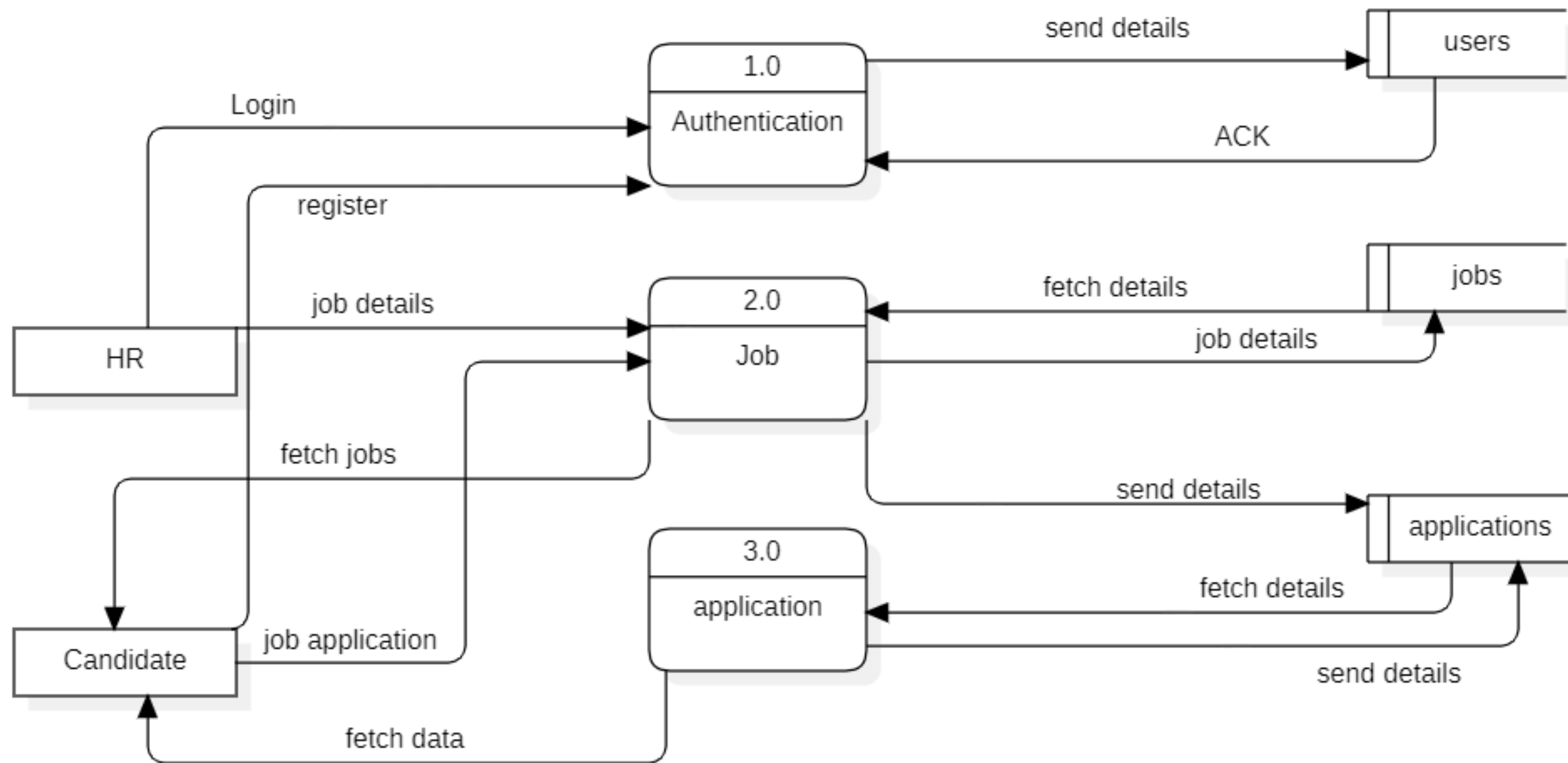
# USE CASE DIAGRAM



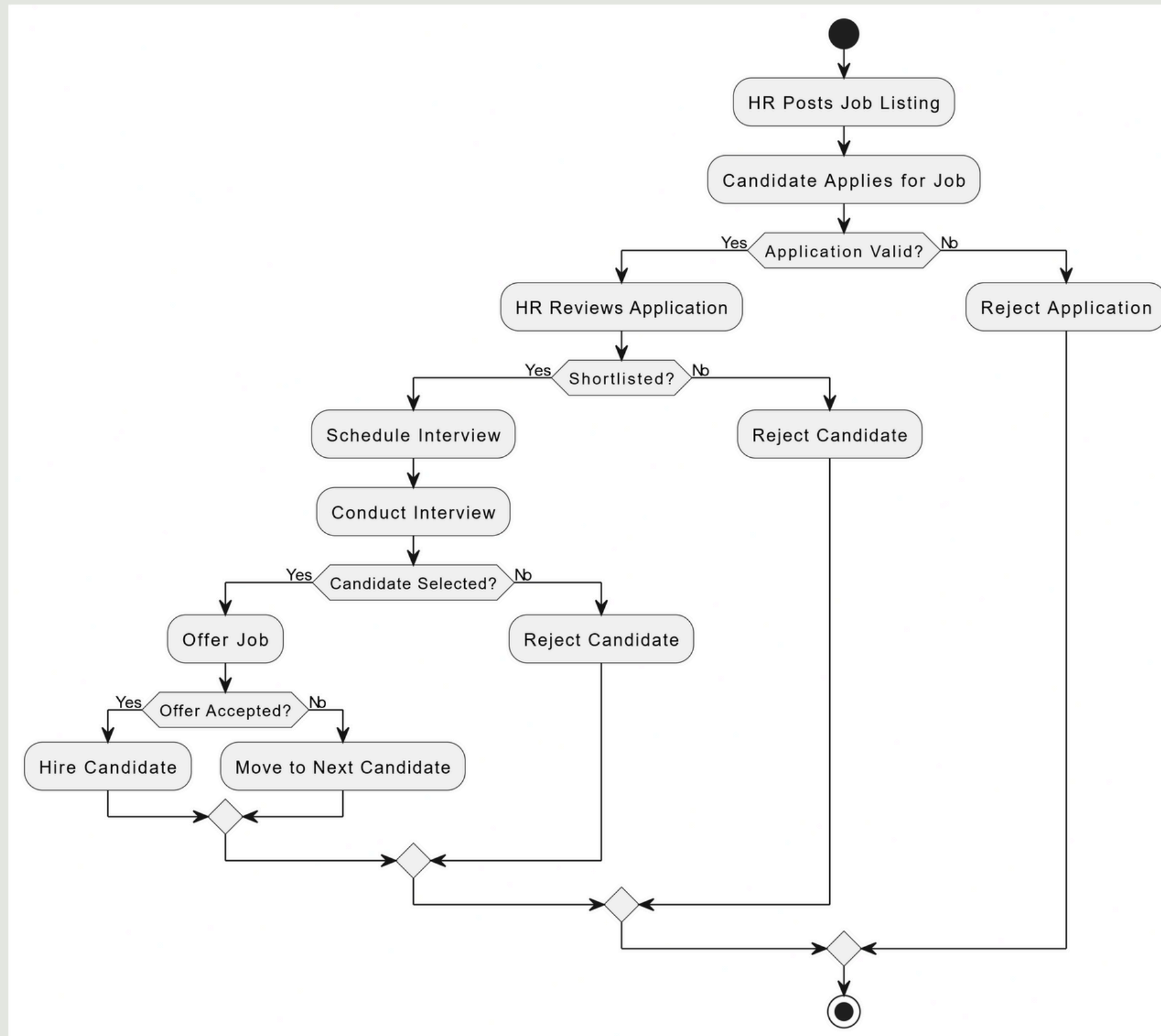recruit_management

- register
- login
- create job
- apply job
- manage job
- review candidate
- interview schedule
- Application Tracking

HR

Interviewer

Candidate

# ER DIAGRAM

# DFD LEVEL 0

# DFD LEVEL 1

# ACTIVITY DIAGRAM

# TECHNOLOGY USED

**FRONTEND FRAMEWORK :- REACT, TYPESCRIPT**

**BACKEND FRAMEWOEK :- NODEJS**

**DATASBASE :- POSTGRESQL**

# REFERENCE

**POSTGREESQL** :- HTTPS://WWW.POSTGRESQL.ORG/

**MDN DOCS** :- HTTPS://DEVELOPER.MOZILLA.ORG/EN-US/DOCS/WEB/JAVASCRIPT

**TANSTACK QUERY/ TABLE**:- HTTPS://TANSTACK.COM/QUERY/LATEST/DOCS/FRAMEWORK/REACT/OVERVIEW

**SHADNCN** :- HTTPS://UI.SHADCN.COM/DOCS

**REACTJS** :- HTTPS://REACTJS.ORG

**GITHUB**:- HTTPS://GITHUB.COM

**STACKOVERFLOW** :- HTTPS://STACKOVERFLOW.COM

# Thank You

For your attention