Practical No. 8

Aim: "Placement solution" is a placement agency associated with more than 100 companies across the city to offer placements to candidates registered with them. The agency keeps the company information for future referral. Whenever a candidate approaches the agency for employment, his personal, educational and professional information is recorded. When the company provides any job description, the candidate database is search for similar matches and call letter is sent to the candidates. After undergoing the interview, if the candidate is selected for a job, the agency charges 10% of the salary of the candidate from the company (nothing is charged to the candidate). This bill is submitted every month to the respective companies. After payment of the same a transaction is recorded.

For the above case study,

1. List the classes:

Agency: This class would represent the placement agency itself. It could include details like the agency's name, a list of companies associated with it, and a list of candidates.

Company: This class would represent the companies that work with the placement agency. It could include information like company name, address, industry type, and a list of job descriptions they offer.

Candidate: This class would represent the candidates registered with the agency. It would store personal, educational, and professional information, as well as their job preferences and applied positions.

JobDescription: This class would represent the job details provided by the companies. It would contain information like job title, job description, required qualifications, and other relevant details.
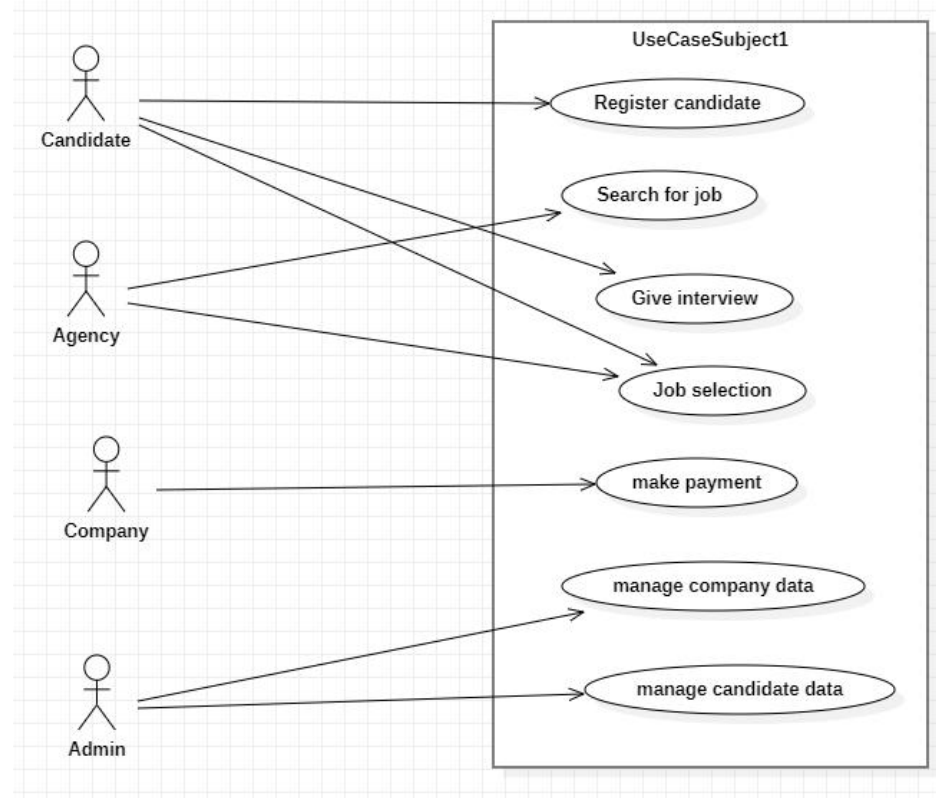
JobMatch: This class would represent the matching of candidates to job descriptions. It would be responsible for the matching process between candidates and job descriptions based on criteria like skills, education, and work experience.

Interview: This class could store the details of interviews that the candidates undergo, including interview dates, interviewers, results, and feedback.

Transaction: This class would represent the payment transactions between the agency and the company for the placement fee (10% of the candidate's salary). It would store details like transaction date, amount, and associated company.

Invoice: This class would represent the invoice generated for the placement fees, including invoice number, date, the amount charged, and payment status.

2. Use case diagram

3. Activity diagram