

# Project: Placement Portal

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## Entities

1. Student
2. Jobs
3. Companies
4. Test
5. Selected Candidate
6. Placement Coordinator

## Attributes

1. **Student:-** RollNo(Primary Key), Name, CPI, Email, Branch, Backlogs
2. **Jobs:-** JID(Primary key), position, salary, job description, Eligibility(Composite attribute) has CPI and Branch
3. **Companies:-** CID(Primary key), Name, Location(multi-valued), email
4. **Test:-** TestID(Primary Key), Type, Date, Duration, Mode
5. **Selected Candidate:-** SelectionID(Primary key), Joining Date, location
6. **Placement Coordinator:-** PCID(Primary key), Role

## Relationship between Entities

1. Students apply for a Job (Many to Many instances). **Description:** A student can apply for multiple jobs, and a job can receive applications from multiple students.
2. Companies offer Jobs (One to Many Jobs). **Description:** A company can offer multiple job openings, but each job is offered by a single company.
3. Students, Jobs, and Tests have a ternary relationship. **Description:** A student applies for a job while taking tests. The test is associated with both the student and the job they are applying for which is treated a collective entity by aggregation.
4. Students apply for jobs while taking some tests selected for companies.
5. Students who are placement coordinators supervise the whole process.

