

Distributed Resume Management System

Entity Relation Diagram

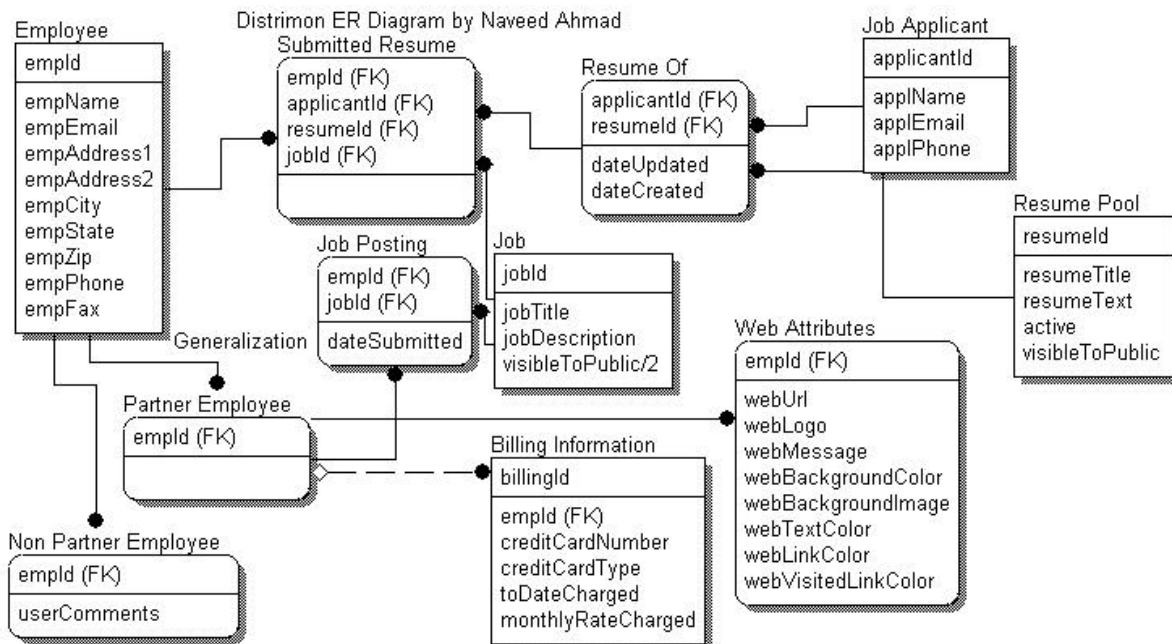
Version: DRAFT

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1)



2)

1. Entities

1.1 Employee

Employee is the person who is doing the job hiring and job posting process. He may be a human resource representative or the CEO of the company doing the candidate hunt or hiring process.

1.2 Partner Employee (inherits Employee)

Partner Employee is a person who has registered to the distrimon service and has put the distrimon url for the forms to gather resumes from candidates.

1.3 Non Partner Employee (inherits Employee)

Is a general person looking for candidate resumes to search from the public resume pool. The attribute visibleToPublic in the ResumePool entity indicates if the resume is available to public or is meant to be seen only by the Partner Employee to whom that resume is posted to.

1.4 Web Attributes

The Partner Employees can configure the look and feel of their resume gathering interface. They can specify the web attributes in the registration process.

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1.5 Billing Information

The billing information contains the information necessary to bill the partner employees.

1.6 Jobs

Jobs posted by a partner employee. Includes text and title.

1.7 Job Applicant

The person visiting the partner employees site or searching for public job postings and posting his resume.

1.8 Resume Pool

The resume created or posted by the Job Applicant

2. Relationships

2.1 Resume Of

Relation between the Job Applicant and the Resume in the Resume Pool.

2.2 Submitted To

Relation ship between the Resume, Job Applicant and the Partner Employee to whom the resume is posted to.

2.3 Job Posting

Relationship between the jobs and the employee who posted it.

2.4 Attributes Of (not represented by a table)

This is shown as a foreign key to the table.

2.5 Billing Information Of (not represented by a table)

This is shown as a foreign key to the table.

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3. Appendix A

This is a self generate SQL schema generated from the above ER diagram. This can be directly read into Oracle to form the tables for distrimon.

```
CREATE TABLE Billing_Information (
  billingId      CHAR(18) NOT NULL,
  empId          CHAR(18) NULL,
  creditCardNumber CHAR(18) NULL,
  creditCardType CHAR(18) NULL,
  toDateCharged CHAR(18) NULL,
  monthlyRateCharged CHAR(18) NULL
);
```

```
ALTER TABLE Billing_Information
  ADD ( PRIMARY KEY (billingId) );
```

```
CREATE TABLE Employee (
  empId      CHAR(18) NOT NULL,
  empName    CHAR(18) NULL,
  empEmail   CHAR(18) NULL,
  empAddress1 CHAR(18) NULL,
  empAddress2 CHAR(18) NULL,
  empCity    CHAR(18) NULL,
  empState   CHAR(18) NULL,
  empZip     CHAR(18) NULL,
  empPhone   CHAR(18) NULL,
  empFax     CHAR(18) NULL
);
```

```
ALTER TABLE Employee
  ADD ( PRIMARY KEY (empId) );
```

```
CREATE TABLE Job (
  jobId      CHAR(18) NOT NULL,
  jobTitle   CHAR(18) NULL,
  jobDescription CHAR(18) NULL,
  visibleToPublic_2 CHAR(18) NULL
);
```

```
ALTER TABLE Job
  ADD ( PRIMARY KEY (jobId) );
```

```
CREATE TABLE Job_Applicant (
  applicantId CHAR(18) NOT NULL,
  applName    CHAR(18) NULL,
```

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```

    applEmail    CHAR(18) NULL,
    applPhone    CHAR(18) NULL
);

```

```

ALTER TABLE Job_Applicant
    ADD ( PRIMARY KEY (applicantId) );

```

```

CREATE TABLE Job_Posting (
    empId        CHAR(18) NOT NULL,
    jobId        CHAR(18) NOT NULL,
    dateSubmitted CHAR(18) NULL
);

```

```

ALTER TABLE Job_Posting
    ADD ( PRIMARY KEY (empId, jobId) );

```

```

CREATE TABLE Non_Partner_Employee (
    empId        CHAR(18) NOT NULL,
    userComments CHAR(18) NULL
);

```

```

ALTER TABLE Non_Partner_Employee
    ADD ( PRIMARY KEY (empId) );

```

```

CREATE TABLE Partner_Employee (
    empId        CHAR(18) NOT NULL
);

```

```

ALTER TABLE Partner_Employee
    ADD ( PRIMARY KEY (empId) );

```

```

CREATE TABLE Resume_Of (
    applicantId  CHAR(18) NOT NULL,
    resumeId     CHAR(18) NOT NULL,
    dateUpdated  CHAR(18) NULL,
    dateCreated  CHAR(18) NULL
);

```

```

ALTER TABLE Resume_Of
    ADD ( PRIMARY KEY (applicantId, resumeId) );

```

```

CREATE TABLE Resume_Pool (
    resumeId     CHAR(18) NOT NULL,

```

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```

resumeTitle    CHAR(18) NULL,
resumeText     CHAR(18) NULL,
active         CHAR(18) NULL,
visibleToPublic CHAR(18) NULL
);

```

```

ALTER TABLE Resume_Pool
ADD ( PRIMARY KEY (resumeId) );

```

```

CREATE TABLE Submitted_Resume (
empId          CHAR(18) NOT NULL,
applicantId    CHAR(18) NOT NULL,
resumeId       CHAR(18) NOT NULL
);

```

```

ALTER TABLE Submitted_Resume
ADD ( PRIMARY KEY (empId, applicantId, resumeId) );

```

```

CREATE TABLE Web_Attributes (
empId          CHAR(18) NOT NULL,
webUrl         CHAR(18) NULL,
webLogo        CHAR(18) NULL,
webMessage     CHAR(18) NULL,
webBackgroundColor CHAR(18) NULL,
webBackgroundImage CHAR(18) NULL,
webTextColor   CHAR(18) NULL,
webLinkColor   CHAR(18) NULL,
webVisitedLinkColor CHAR(18) NULL
);

```

```

ALTER TABLE Web_Attributes
ADD ( PRIMARY KEY (empId) );

```

```

ALTER TABLE Billing_Information
ADD ( FOREIGN KEY (empId)
REFERENCES Partner_Employee );

```

```

ALTER TABLE Job_Posting
ADD ( FOREIGN KEY (jobId)
REFERENCES Job );

```

```

ALTER TABLE Job_Posting
ADD ( FOREIGN KEY (empId)
REFERENCES Partner_Employee );

```

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```
ALTER TABLE Non_Partner_Employee
ADD ( FOREIGN KEY (empId)
      REFERENCES Employee );
```

```
ALTER TABLE Partner_Employee
ADD ( FOREIGN KEY (empId)
      REFERENCES Employee );
```

```
ALTER TABLE Resume_Of
ADD ( FOREIGN KEY (resumeId)
      REFERENCES Resume_Pool );
```

```
ALTER TABLE Resume_Of
ADD ( FOREIGN KEY (applicantId)
      REFERENCES Job_Applicant );
```

```
ALTER TABLE Submitted_Resume
ADD ( FOREIGN KEY (applicantId, resumeId)
      REFERENCES Resume_Of );
```

```
ALTER TABLE Submitted_Resume
ADD ( FOREIGN KEY (empId)
      REFERENCES Employee );
```

```
ALTER TABLE Web_Attributes
ADD ( FOREIGN KEY (empId)
      REFERENCES Partner_Employee );
```