Job Portal System - Complete UML Documentation

1. UML Class Diagram

```
Classes:
- Job (id, name, description)
- Candidate (id, name, additionalInfo)
- Employer (id, name, email)
- LocalEmployer (country) extends Employer
- GlobalEmployer (country) extends Employer
- Package (id, packageName, price)
- CandidatePackage (jobApplyLimit)
- EmployerPackage (jobSubmitLimit)

Relationships:
- Candidate applies Job (Many-to-Many)
- Employer posts Job (One-to-Many)
- Candidate buys Package
- Employer buys Package
```

2. ER Diagram (Entity Relationship)

```
Entities:
Candidate (PK: id)
Employer (PK: id)
Job (PK: id, FK: employer_id)
Package (PK: id)
Candidate_Package (FK: candidate_id, package_id)
Employer_Package (FK: employer_id, package_id)
Application (FK: candidate_id, job_id)

Relationships:
Candidate --< Application >-- Job
Employer --< Job
Candidate --< Candidate_Package >-- Package
Employer --< Employer_Package >-- Package
```

3. Use Case Diagram

```
Actors:
- Candidate
- Employer
- Admin (Optional)

Candidate Use Cases:
- Register/Login
- Apply Job
- Update Profile
- Buy Package
- Change Password

Employer Use Cases:
- Post Job
- Update Job
- View Applications
- Buy Package
- Change Password
```

4. Sequence Diagram (Apply Job)

```
Candidate -> System: Login()
Candidate -> System: View Jobs()
Candidate -> System: Apply Job()
System -> Database: Save Application
Database -> System: Success
System -> Candidate: Application Confirmation
```