|  |  |
| --- | --- |
|  | **Namal University Mianwali**  **Department of Computer Science** |

## **Lab 3**

# **SE Project: Use Cases and Use Case Diagram**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course** | **Name** | **Roll No** | **Submitted to** | **Department** |
| Software Engineering | Usaira Shahbaz  **NUM-BSCS-2022-27** | Malik Muhammad Hassan  **NUM-BSCS-2022-47** | Miss Sonia Safeer | Computer Science, Namal University, Mianwali |

**Actors:**

**Primary Actors:**

* **Recruiter (Job Applicant)** → Applies for jobs, submits resumes, and attends interviews.
* **HR (Employer)** → Posts jobs, shortlists resumes, and selects final candidates.

**Secondary Actors:**

* **AI Recruit System** → Processes resumes, ranks candidates, and facilitates online interviews.

**Use Cases & Flows:**

**1. User Login**

**Regular Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System Response** |
| |  | | --- | | User enters email and password |  |  | | --- | |  | | |  | | --- | | System verifies credentials |  |  | | --- | |  | |
| |  | | --- | | If valid, user is redirected to their dashboard |  |  | | --- | |  | | Dashboard is displayed based on role (HR/Recruiter) |

**Alternative Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System Response** |
| |  | | --- | | User enters incorrect credentials |  |  | | --- | |  | | |  | | --- | | System displays an error message |  |  | | --- | |  | |
| |  | | --- | | User forgets password |  |  | | --- | |  | | System provides password recovery option |

**2. HR Posts a Job**

**Regular Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System Response** |
| HR logs in and navigates to "Post Job" section | System loads job posting form |
| HR fills job details (Title, Description, Requirements) | System validates input fields |
| HR submits the job post | Job is posted and visible to recruiters |

**Alternative Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System Response** |
| HR submits incomplete details | System prompts for missing information |
| HR wants to edit/delete a job | System allows modification or removal |

**3. Recruiter Applies for a Job**

**Regular Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System response** |
| Recruiter logs in and browses job listings | System displays available jobs |
| Recruiter selects a job and clicks "Apply" | System prompts for resume upload |
| Recruiter uploads resume and submits application | System stores the application |

**Alternative Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System Response** |
| Recruiter applies without uploading a resume | System shows an error |
| Recruiter uploads an unsupported file format | System prompts for correct format (e.g., PDF, DOCX) |

**4. AI Shortlists Resumes**

**Regular Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System Response** |
| System processes submitted resumes | AI analyzes resume content and structure |
| AI shortlists resumes based on job relevance | System filters resumes and stores shortlisted ones |
| HR receives a notification of shortlisted candidates | HR can review the shortlisted resumes |

**Alternative Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System Response** |
| AI detects low-quality resumes | System flags them for HR review |
| AI fails to match enough resumes | System notifies HR for manual review |

**5. HR Shortlists Final Candidates**

**Regular Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System Response** |
| HR logs in and views AI-shortlisted resumes | System displays the list of candidates |
| HR manually selects top candidates | System marks them as "Final Shortlist" |
| HR rejects unqualified candidates | System notifies rejected recruiters |

**Alternative Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System Response** |
| HR wants to override AI selections | System allows manual adjustments |
| HR needs more resumes | System fetches additional resumes |

**6. Online Interview**

**Regular Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System Response** |
| Shortlisted recruiters receive interview invite | System sends email/SMS notification |
| Recruiters start online interview (Text or Video) | System records answers for HR review |
| AI analyzes and ranks interviews based on responses | |  | | --- | |  |  |  | | --- | | System stores ranked candidates | |
| HR reviews top-ranked candidates | System provides hiring recommendations |

**Alternative Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System Response** |
| Recruiter fails to complete the interview | |  | | --- | |  |  |  | | --- | | System sends reminder notification | |
| AI finds interview responses unclear | System flags them for HR review |

**7. HR Selects Final Candidates**

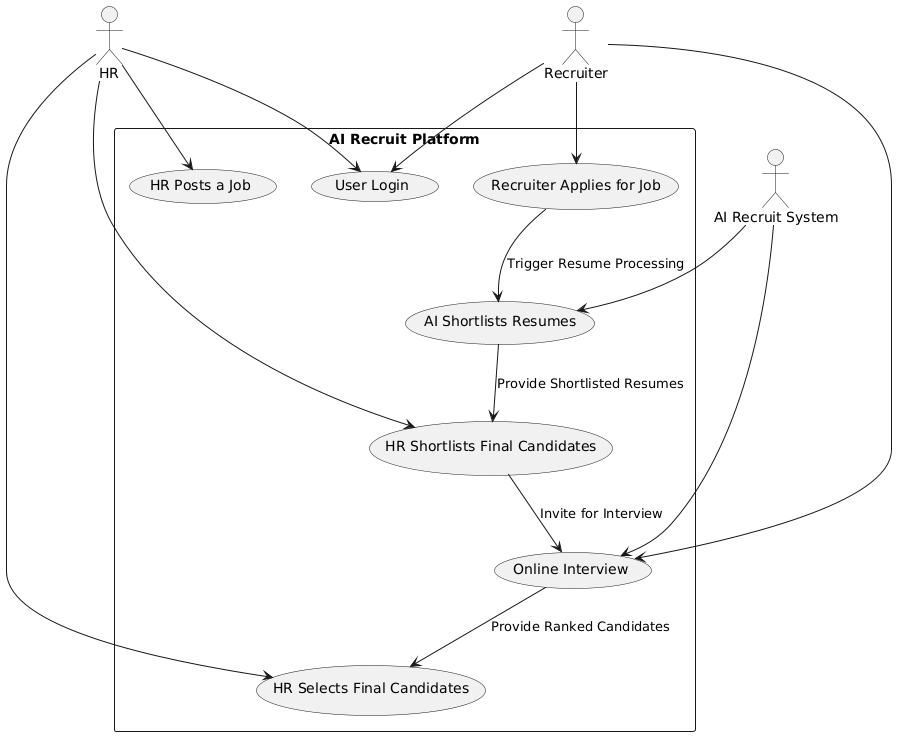
**Regular Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System Action** |
| HR reviews AI-ranked candidates | System displays final rankings |
| HR selects candidates for hiring | |  | | --- | |  |  |  | | --- | | System updates candidate status | |
| HR sends offer letters to selected candidates | System notifies recruiters via email |

**Alternative Course of Actions:**

|  |  |
| --- | --- |
| **Action** | **System Response** |
| HR wants to interview more candidates | System allows adding more candidates |
| HR changes hiring decision | System updates the hiring list |

**UML Diagram**

****