

1) Functional Testing:

| Test Case ID | Test Case Title | Test Scenario | Preconditions | Test Steps | Test Data/Input | Expected Result | Actual Result | Status | Priority | Severity |
|--------------|-------------------------------------|---|---|--|--------------------|--|---------------|--------|----------|----------|
| TC01 | Verify login with valid credentials | To ensure successful login using correct email and password | User must have a valid LinkedIn account | Open LinkedIn → Enter valid email & password → Click Sign In | Valid credentials | User should be redirected to homepage | | | High | Major |
| TC02 | Verify login with invalid password | To check system response for wrong password | User has valid email ID | Enter valid email & wrong password → Click Sign In | Wrong password | Error message 'Incorrect password' displayed | | | High | Major |
| TC03 | Verify login with blank email | To ensure error when email is missing | Login page open | Leave email empty → Enter password → Click Sign In | Empty email field | System should prompt to enter email | | | Medium | Minor |
| TC04 | Check password reset process | To validate the password recovery feature | User has registered email | Click 'Forgot password' → Follow reset link → Enter new password | Registered email | Password reset successfully | | | High | Major |
| TC05 | Verify new account registration | To ensure user can create a new | Registration page available | Enter valid name, email, | Valid user details | Account created successfully | | | High | Major |

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| | | LinkedIn account | | password → Submit | | | | | | |
| TC06 | Verify logout functionality | To ensure user can log out securely | User logged into LinkedIn | Click profile icon → Select Logout | Active session | User logged out, redirected to login page | | | Medium | Minor |
| TC07 | Check Remember Me option | To confirm Remember Me works properly | User has a LinkedIn account | Select Remember Me → Login → Close and reopen browser | Valid credentials | User stays logged in automatically | | | Medium | Minor |
| TC08 | Verify connection request | To validate sending a connection request | User logged in | Search for a user → Click Connect | Target user name | Connection request sent | | | Medium | Major |
| TC09 | Verify post creation | To check if user can create a new post | User logged in | Click 'Start a post' → Add content → Click Post | Text content | Post successfully uploaded | | | High | Major |
| TC10 | Verify comment on a post | To ensure commenting works | User logged in | Open a post → Type comment → Post it | Comment text | Comment visible under post | | | Medium | Minor |
| TC11 | Verify like functionality | To ensure user can like a post | User logged in | Open a post → Click Like | Post | Like count increases | | | Medium | Minor |
| TC12 | Verify share functionality | To check if post can be shared | User logged in | Open post → Click Share → Confirm | Post | Post shared on user's feed | | | Medium | Minor |

2)UI Testing

| Test Case ID | Test Case Title | Test Scenario | Preconditions | Test Steps | Test Data/Input | Expected Result | Actual Result | Status | Priority | Severity |
|--------------|---------------------------------|---|-----------------------------------|--|-----------------|---|---------------|--------|----------|----------|
| TC13 | Verify LinkedIn logo visibility | Ensure LinkedIn logo is properly visible on all pages | User opens LinkedIn home page | Check header section for LinkedIn logo | Home page URL | Logo displayed clearly at top-left corner | | | Medium | Minor |
| TC14 | Check login button alignment | Verify login button is properly aligned and visible | Login page open | Inspect login button placement | Login page | Login button centered below input fields | | | Medium | Minor |
| TC15 | Check color contrast of buttons | Ensure color contrast meets accessibility standards | LinkedIn page open | Compare button color with background | Any page | Text and background contrast ratio should be proper | | | Medium | Minor |
| TC16 | Verify font consistency | Ensure all text elements use consistent fonts | LinkedIn dashboard open | Inspect fonts in menus, posts, and buttons | Dashboard page | Font style and size consistent across site | | | Low | Minor |
| TC17 | Check image loading | Ensure all profile and post images load correctly | User logged in | Scroll through feed and profiles | Feed page | All images load without distortion | | | High | Major |
| TC18 | Verify responsiveness on mobile | Ensure UI adapts on smaller screens | Access LinkedIn on mobile browser | Resize window or open on phone | Mobile device | Layout adjusts correctly without overlaps | | | High | Major |

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| TC19 | Check post button visibility | Ensure post button is always visible on feed | User logged in | Open home feed and locate 'Start a post' button | Feed page | 'Start a post' button visible at top | | | Medium | Minor |
| TC20 | Verify icon clarity | Ensure all icons are sharp and clearly visible | LinkedIn dashboard open | Inspect all icons (message, bell, profile) | Dashboard | Icons appear sharp with proper resolution | | | Low | Minor |
| TC21 | Check placeholder text visibility | Ensure placeholders are visible in text fields | Open login or signup page | Inspect input boxes for placeholder text | Login page | Placeholder text readable and properly aligned | | | Low | Minor |
| TC22 | Verify button hover effect | Ensure hover effect works correctly for buttons | User logged in | Hover mouse over action buttons | Feed page | Hover effect (color change or highlight) visible | | | Low | Minor |
| TC23 | Check scroll bar functionality | Ensure scroll bars appear when content exceeds screen size | Open long LinkedIn page | Scroll vertically and horizontally | Any page | Scroll bar visible and works properly | | | Medium | Minor |
| TC24 | Verify dark mode appearance | Ensure UI elements adapt to dark mode properly | User enabled dark mode | Switch LinkedIn theme to dark mode | Settings | All components visible in dark mode | | | Medium | Minor |
| TC25 | Check alignment of profile picture and name | Ensure profile picture and username | User logged in | View profile page | Profile page | Profile picture and name | | | Medium | Minor |

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| | | align properly | | | | properly aligned | | | | | |
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3) Security Testing

| Test Case ID | Test Case Title | Test Scenario | Precondition s | Test Steps | Test Data/Inpu t | Expected Result | Actua l Resul t | Status | Priorit y | Severit y |
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| TC2 6 | Verify password encryption | Ensure passwords are stored in encrypted format | Admin access to DB | Register new user → Check DB storage | New credentials | Password stored encrypted | | | High | Major |
| TC2 7 | Check login with SQL injection | Prevent login using SQL injection inputs | Login page open | Enter ` OR '1'='1` in email field | Malicious input | Error message, no login success | | | High | Critical |
| TC2 8 | Verify session timeout | Ensure user session expires after inactivity | User logged in | Stay idle for 15+ mins | Idle user | System logs out automatically | | | Medium | Major |
| TC2 9 | Check HTTPS connection | Ensure data transmission is secure via HTTPS | LinkedIn open | Check URL protocol | Website URL | HTTPS enabled with lock icon | | | High | Major |
| TC3 0 | Verify password strength validation | Ensure password policy is enforced | Registration page | Enter weak password | weak123 | Message shown 'Weak password' | | | High | Major |

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| TC3 1 | Verify account lock after multiple failed logins | Ensure account locks after 5 failed attempts | User account exists | Enter wrong password multiple times | Invalid password | Account temporarily locked | | | High | Major |
| TC3 2 | Check forgot password email security | Verify reset link is secure and unique | User has email registered | Click 'Forgot Password' → Check email | Registered email | Unique reset link sent | | | High | Major |
| TC3 3 | Verify 2-step verification | Ensure OTP verification works correctly | User enabled 2FA | Login with credentials → Enter OTP | Valid credentials & OTP | Access granted | | | High | Major |
| TC3 4 | Check logout clears session | Ensure session cookie is cleared after logout | User logged in | Logout → Check browser cookies | Active session | Session cookie removed | | | Medium | Major |
| TC3 5 | Verify profile data privacy | Ensure only connections can view restricted data | User logged in | Visit profile privacy settings | Profile data | Restricted data hidden from non-connections | | | Medium | Major |
| TC3 6 | Check protection from XSS attack | Ensure site prevents cross-site scripting | Comment field available | Enter script <script>alert('hack')</script> | Malicious input | Script ignored, sanitized | | | High | Critical |
| TC3 7 | Verify secure password reset link expiry | Ensure reset link expires after limited time | User requests password reset | Click link after expiry time | Expired link | Link expired message displayed | | | Medium | Major |

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| TC3 8 | Check unauthorized access to pages | Ensure restricted pages require login | Open LinkedIn dashboard directly | Dashboard URL | Restricted page | Redirected to login page | | | High | Major |
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4) Usability Testing

| Test Case ID | Test Case Title | Test Scenario | Preconditions | Test Steps | Test Data/Input | Expected Result | Actual Result | Status | Priority | Severity |
|--------------|---------------------------------------|---|----------------------|--------------------------------------|-----------------|--|---------------|--------|----------|----------|
| TC39 | Verify clarity of navigation menu | Ensure navigation menu is easy to understand | User logged in | Open dashboard → Check menu labels | Dashboard menu | Labels are clear and self-explanatory | | | Medium | Minor |
| TC40 | Check accessibility of key features | Validate users can access main features easily | User logged in | Locate 'Jobs', 'Messages', 'Network' | Dashboard | All features visible within 2 clicks | | | Medium | Minor |
| TC41 | Verify feedback after form submission | Ensure user gets clear feedback messages | Form submission page | Submit form with valid details | Form data | Message 'Submitted successfully' displayed | | | High | Major |
| TC42 | Check placement of error messages | Validate errors appear near relevant fields | Login page open | Enter invalid credentials | Wrong input | Error shown below input field | | | Medium | Minor |
| TC43 | Verify language readability | Ensure all messages are simple and understandable | LinkedIn open | Read text across site | Text content | Sentences easy to understand | | | Low | Minor |
| TC44 | Check consistency of icons | Ensure icons have consistent | User logged in | Inspect icons (home, message, jobs) | Dashboard icons | All icons consistent and intuitive | | | Low | Minor |

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| | | shapes and meanings | | | | | | | | |
| TC45 | Verify profile edit process | Ensure profile update process is user-friendly | User logged in | Edit profile → Save changes | Profile data | Profile updates without confusion | | | Medium | Major |
| TC46 | Check navigation between pages | Ensure users can move between pages easily | LinkedIn open | Click links and return to home | Various links | Pages open quickly without confusion | | | Medium | Minor |
| TC47 | Verify search bar usability | Ensure users can find what they want quickly | User logged in | Type keyword in search bar | 'Developer', 'Jobs' | Accurate and relevant suggestions shown | | | High | Major |
| TC48 | Check clarity of notification messages | Ensure notifications are descriptive | User logged in | Open Notifications tab | Various alerts | Each alert has clear purpose | | | Medium | Minor |
| TC49 | Verify help or support availability | Ensure users can access help easily | LinkedIn open | Scroll down → Click 'Help Center' | Help link | Help Center opens successfully | | | Medium | Minor |
| TC50 | Check button labels clarity | Ensure button names clearly describe action | LinkedIn open | Inspect all action buttons | Buttons | Labels like 'Apply', 'Connect' are clear | | | Low | Minor |
| TC51 | Verify new user onboarding flow | Ensure new users understand setup steps | New LinkedIn account | Register and follow steps | Registration form | Clear prompts guide user to complete profile | | | High | Major |
| TC52 | Check visual feedback on actions | Ensure system gives feedback when actions occur | User logged in | Like or comment on a post | Post click | Small animation or count change visible | | | Medium | Minor |

5) Performance Testing

| Test Case ID | Test Case Title | Test Scenario | Preconditions | Test Steps | Test Data/Input | Expected Result | Actual Result | Status | Priority | Severity |
|--------------|------------------------------------|--|--------------------------|------------------------------------|-------------------|----------------------------------|---------------|--------|----------|----------|
| TC53 | Verify home page load time | Ensure LinkedIn homepage loads within 3 seconds | User logged out | Open LinkedIn in browser | Homepage URL | Page loads within 3 seconds | | | High | Major |
| TC54 | Check login response time | Verify login completes within acceptable time | User registered | Enter credentials → Click Sign In | Valid credentials | Login completes within 2 seconds | | | High | Major |
| TC55 | Validate post upload speed | Check how quickly posts are published | User logged in | Create and post text update | Post content | Post uploaded within 3 seconds | | | Medium | Major |
| TC56 | Measure feed refresh performance | Ensure feed refresh is quick | User logged in | Scroll or refresh feed | User activity | Feed loads smoothly | | | Medium | Minor |
| TC57 | Check image upload time | Ensure profile images upload quickly | User logged in | Upload a new profile photo | Image file | Upload completes under 5 seconds | | | Medium | Major |
| TC58 | Verify scalability under high load | Check system performance under 1000 concurrent users | Load testing environment | Simulate multiple users logging in | Concurrent users | System remains stable | | | High | Major |

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| TC59 | Test page transition speed | Ensure switching pages is smooth | User logged in | Move between dashboard, jobs, and messages | Navigation clicks | Page loads within 2 seconds | | | Medium | Minor |
| TC60 | Check search performance | Validate response time for search results | User logged in | Search for 'Software Engineer' | Keyword input | Results displayed in <3 seconds | | | High | Major |
| TC61 | Verify notifications update time | Ensure notifications appear in real time | User logged in | Trigger new message or connection | Notification event | Notification appears instantly | | | High | Major |
| TC62 | Validate chat performance | Ensure messaging system is responsive | Two users logged in | Send and receive messages | Chat input | Messages delivered instantly | | | Medium | Major |
| TC63 | Check video post upload time | Ensure video uploads complete within limit | User logged in | Upload a short video | MP4 file | Upload within 10 seconds | | | Medium | Major |
| TC64 | Measure API response time | Verify LinkedIn APIs respond under 2 seconds | API access enabled | Trigger LinkedIn API call | API endpoint | API responds in <2 seconds | | | High | Critical |
| TC65 | Validate system behavior during downtime | Check stability during server overload | Test environment | Simulate high traffic | Stress load | System stays available with minimal delay | | | High | Major |
| TC66 | Verify download | Ensure attachment | User logged in | Download attached resume | File link | File downloads | | | Medium | Minor |

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| | speed of attachments | download is fast | | | | under 5 seconds | | | | |
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6) Compatibility Testing

| Test Case ID | Test Case Title | Test Scenario | Preconditions | Test Steps | Test Data/Input | Expected Result | Actual Result | Status | Priority | Severity |
|--------------|---|--|-------------------------|-------------------------------|-----------------|---------------------------------------|---------------|--------|----------|----------|
| TC67 | Verify website compatibility on Chrome | Ensure LinkedIn works properly on Chrome browser | LinkedIn URL accessible | Open LinkedIn in Chrome | Chrome browser | Website loads and functions normally | | | High | Major |
| TC68 | Verify website compatibility on Firefox | Check LinkedIn works properly on Firefox browser | LinkedIn URL accessible | Open LinkedIn in Firefox | Firefox browser | Website loads without UI distortion | | | Medium | Minor |
| TC69 | Verify website compatibility on Safari | Ensure LinkedIn functions correctly on Safari | LinkedIn URL accessible | Open LinkedIn in Safari | Safari browser | Website loads and functions correctly | | | Medium | Minor |
| TC70 | Verify compatibility on Edge browser | Ensure no rendering issues occur | LinkedIn accessible | Open LinkedIn in Edge browser | Edge browser | Layout and UI render correctly | | | Medium | Minor |

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| TC71 | Check mobile responsiveness on Android | Ensure UI adjusts properly on Android | LinkedIn mobile app or browser | Open LinkedIn on Android device | Android device | Layout fits screen properly | | | High | Major |
| TC72 | Check mobile responsiveness on iOS | Ensure LinkedIn adapts well on iPhones | LinkedIn mobile app installed | Open LinkedIn on iPhone | iPhone | UI and buttons work properly | | | High | Major |
| TC73 | Verify cross-platform login functionality | Ensure login works on multiple platforms | Valid LinkedIn account | Login from mobile and desktop | Same credentials | Login successful across devices | | | High | Major |
| TC74 | Check font rendering on different OS | Ensure fonts appear consistently | LinkedIn open on multiple OS | Compare text on Windows, macOS, Linux | Operating systems | Fonts display clearly and consistently | | | Low | Minor |
| TC75 | Verify post sharing on all browsers | Ensure post sharing works on all browsers | User logged in | Share a post on Chrome, Firefox, Edge | Browser inputs | Post successfully shared on all | | | Medium | Major |
| TC76 | Validate link previews on devices | Check preview generation for shared links | User logged in | Share external links | Post URL | Preview displays on web and mobile | | | Medium | Minor |
| TC77 | Check video playback on all platforms | Ensure videos play smoothly everywhere | Video post available | Play video on mobile and desktop | Video URL | Playback smooth and synchronized | | | Medium | Major |

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| TC78 | Verify file uploads on various browsers | Ensure file upload works across browsers | User logged in | Upload resume or document | File attachment | File uploads successfully on all | | | High | Major |
| TC79 | Check alignment across screen sizes | Ensure consistent layout across resolutions | LinkedIn open | Resize browser window | Vary screen sizes | Layout adjusts properly | | | Medium | Minor |
| TC80 | Verify notifications sync between devices | Ensure notifications appear on all devices | User logged in on two devices | Send message or alert | Notification event | Notification appears on both devices | | | High | Major |

7) Accessibility Testing

| Test Case ID | Test Case Title | Test Scenario | Preconditions | Test Steps | Test Data/Input | Expected Result | Actual Result | Status | Priority | Severity |
|--------------|-----------------------------------|--|--------------------------|---|------------------------|---|---------------|--------|----------|----------|
| TC81 | Verify keyboard-only navigation | Ensure users can navigate using only keyboard | LinkedIn open in browser | Use Tab and Enter to move between links | Keyboard input | All interactive elements are accessible | | | High | Major |
| TC82 | Check screen reader compatibility | Validate LinkedIn supports screen readers | Screen reader installed | Open LinkedIn using NVDA/JAWS | Screen reader software | All elements read properly | | | High | Major |
| TC83 | Verify color contrast | Ensure text contrast meets accessibility standards | LinkedIn open | Check colors using contrast checker | Color codes | Contrast ratio \geq 4.5:1 | | | Medium | Minor |

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| TC84 | Check alt text for images | Ensure all images have alt text | LinkedIn open | Inspect images via developer tools | Image elements | Alt attributes present | | | Medium | Minor |
| TC85 | Verify focus indicator visibility | Ensure focus is visible on all buttons/links | LinkedIn open | Use Tab key to navigate | Keyboard navigation | Clear focus outline visible | | | High | Major |
| TC86 | Check form field labels | Validate each form element has label | Login/Signup forms | Inspect label tags | Form fields | Each input has descriptive label | | | Medium | Minor |
| TC87 | Validate captions for videos | Ensure uploaded videos include captions | Video post available | Play video with captions on | Video content | Captions displayed accurately | | | High | Major |
| TC88 | Verify dynamic content accessibility | Ensure live updates are read by assistive tools | Feed auto-refresh on | Use screen reader | Live feed | Updates announced correctly | | | Medium | Major |
| TC89 | Check ARIA attributes | Validate ARIA roles and properties used properly | LinkedIn page open | Inspect HTML elements | ARIA attributes | ARIA roles correctly applied | | | Medium | Minor |
| TC90 | Verify link descriptions | Ensure links have meaningful text | LinkedIn open | Hover over or inspect link text | Page links | Link text describes destination | | | Low | Minor |
| TC91 | Check error message accessibility | Ensure error messages are announced by screen readers | Form with invalid input | Submit invalid data | Invalid fields | Error messages announced clearly | | | Medium | Major |

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| TC92 | Verify heading structure | Ensure headings follow logical hierarchy | LinkedIn open | Inspect headings (H1–H3) | Page elements | Headings arranged sequentially | | | Low | Minor |
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8) Integration Testing

| Test Case ID | Test Case Title | Test Scenario | Preconditions | Test Steps | Test Data/Input | Expected Result | Actual Result | Status | Priority | Severity |
|--------------|--|---|---------------------------|-----------------------------------|----------------------|--|---------------|--------|----------|----------|
| TC93 | Verify login module integration | Ensure login module integrates correctly with LinkedIn database | Valid user exists | Enter credentials → Click Sign In | User credentials | User successfully authenticated | | | High | Major |
| TC94 | Check profile update synchronization | Validate profile updates reflect across modules | User logged in | Edit profile → Save | Updated profile info | Updated info visible on dashboard & search | | | Medium | Major |
| TC95 | Verify post and feed integration | Ensure user posts appear correctly in feed | User logged in | Create post → Refresh feed | Post content | New post visible in feed | | | High | Major |
| TC96 | Check job module with recommendation engine | Validate job recommendations update dynamically | User has profile info | View job suggestions | User preferences | Jobs shown based on skills and location | | | High | Major |
| TC97 | Verify messaging and notification link | Ensure messages trigger proper notifications | User logged in | Send message → Check notification | Message input | Notification instantly received | | | High | Major |
| TC98 | Check external authentication (Google/Apple) | Ensure third-party login works correctly | Linked accounts connected | Login using Google/Apple | External credentials | User logged in successfully | | | Medium | Major |

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| TC99 | Verify data integration with LinkedIn API | Ensure API returns correct user info | API key available | Fetch data via LinkedIn API | API endpoint | Correct JSON response with user data | | | High | Major |
| TC100 | Check analytics integration | Validate LinkedIn analytics updates when post is made | Analytics dashboard enabled | Create a post → Open analytics | Post activity | Analytics data updated immediately | | | High | Major |