

## Use Case Scenarios

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<i>Use case name</i>	Log in
<i>Participating actors</i>	User, Authentication server
<i>Flow of events: Normal flow</i>	<ol style="list-style-type: none"> <li>1. User provides user name and password and requested access rights.</li> <li>2. System records authentication attempt.</li> <li>3. System authenticates user.</li> <li>4. System provides requested access rights.</li> </ol>
<i>Flow of events: Alternative flow</i>	<p>Invalid user name or password. 3. Authentication fails.</p> <p>User does not have request access rights. 3. Authentication fails.</p>
<i>Pre-condition</i>	User is not currently logged in with the requested access rights.
<i>Post-condition</i>	<p>System has recorded an authentication attempt and its outcome.</p> <p>User has validated access rights or authentication fails.</p>
<i>Notes</i>	Specializations of User can have different access levels from ordinary users, but might wish to login without elevated privileges.

<i>Use case name</i>	Log out
<i>Participating actors</i>	User, Authentication server
<i>Flow of events: Normal flow</i>	<ol style="list-style-type: none"> <li>1. User logs out.</li> <li>2. Server revokes access rights.</li> <li>3. Server records end of authentication.</li> </ol>
<i>Flow of events: Alternative flow</i>	<p>Log out failure</p> <ol style="list-style-type: none"> <li>1. User remains logged in.</li> </ol>
<i>Pre-condition</i>	User is logged in and has validated access rights.
<i>Post-condition</i>	<p>User is logged out and has no access rights.</p> <p>User remains logged in.</p> <p>An end-of-authentication record has been made.</p>

<i>Use case name</i>	Authorisation check
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<i>Participating actors</i>	Authorisation, HRDatabase
<i>Flow of events: Normal flow</i>	<ol style="list-style-type: none"> <li>1. An authorization check record is made.</li> <li>2. Check the user's authorisation to complete the requested action.</li> <li>3. Grant requested access.</li> </ol>
<i>Flow of events: Alternative flow</i>	<p>User does not have the required authorisation rights.</p> <ol style="list-style-type: none"> <li>3. Deny access.</li> </ol>
<i>Pre-condition</i>	User is authenticated.
<i>Post-condition</i>	<p>User is authenticated.</p> <p>Access granted or access denied.</p> <p>An authorisation-check record has been made.</p>

<i>Use case name</i>	Read personal details
<i>Participating actors</i>	User, HRDatabase
<i>Flow of events: Normal flow</i>	<ol style="list-style-type: none"> <li>1. Request personal details record.</li> <li>2. Include: Authorisation check</li> <li>3. HRDatabase delivers record to user.</li> <li>4. User finishes with access to the record.</li> </ol>
<i>Flow of events: Alternative flow</i>	<p>Authorisation check fails.</p> <ol style="list-style-type: none"> <li>3. No records are delivered to the user.</li> </ol>
<i>Pre-condition</i>	<p>User is authenticated.</p> <p>Record exists in the database.</p>
<i>Post-condition</i>	<p>User is authenticated.</p> <p>User can read the personal details record.</p> <p>Record is unchanged in the database.</p>

<i>Use case name</i>	Create personal details record.
<i>Participating actors</i>	HREmployee, HRDatabase
<i>Flow of events: Normal flow</i>	<ol style="list-style-type: none"> <li>1. HREmployee requests a new personal details record.</li> <li>2. Include: Authorisation check.</li> <li>3. A new personal details record is created.</li> <li>4. HREmployee completes the details in the record.</li> <li>5. New record is saved in the HRDatabase.</li> </ol>
<i>Flow of events: Alternative flow</i>	<p>Authorisation check fails.</p> <p>3. No new record is created.</p> <p>Record is not or cannot be saved.</p> <p>5. New details are lost.</p> <p>6. New record is deleted.</p>
<i>Pre-condition</i>	<p>HREmployee is authenticated.</p> <p>Record does not exist.</p>
<i>Post-condition</i>	<p>HREmployee is authenticated.</p> <p>New personal details record has been created in the HRDatabase or HRDatabase is unchanged.</p>

<i>Use case name</i>	Amend personal details record
<i>Participating actors</i>	User, HREmployee, HRDatabase
<i>Flow of events: Normal flow</i>	<ol style="list-style-type: none"> <li>1. HREmployee requests to alter a personal details record.</li> <li>2. Include: Authorisation check.</li> <li>3. Include: Read personal details.</li> <li>4. Amend the record.</li> <li>5. Save amended record to HRDatabase.</li> </ol>
<i>Flow of events: Alternative flow</i>	<p>Authorisation check fails.</p> <p>2. Write access to the record is denied.</p> <p>Record can not be retrieved.</p> <p>4. Record is not available.</p> <p>Amendment cancelled by user.</p> <p>4. Record remains unchanged.</p> <p>Record not saved.</p> <p>5. Amended details are lost.</p>

<i>Pre-condition</i>	HREmployee is authenticated. Personal details record for user exists.
<i>Post-condition</i>	HREmployee is authenticated. Personal details record for user exists. Record has been amended or Record remains unchanged.

<i>Use case name</i>	Create new review record.
<i>Participating actors</i>	Employee, HRDatabase, Authorisation
<i>Flow of events: Normal flow</i>	<ol style="list-style-type: none"> <li>1. Employee requests a new review record.</li> <li>2. Include: Authorisation check.</li> <li>3. A new review record is created.</li> <li>4. Employee enters details in the record.</li> <li>5. New review record is saved in the HRDatabase.</li> </ol>
<i>Flow of events: Alternative flow</i>	<p>Authorisation check fails.</p> <p>3. No new review record is created.</p> <p>Record is not or cannot be saved.</p> <p>5. New details are lost.</p>
<i>Pre-condition</i>	<p>Current date is within 2 weeks of the employee's employment date.</p> <p>Employee is authenticated.</p> <p>Record does not exist.</p>
<i>Post-condition</i>	<p>Current date is within 2 weeks of the employee's employment date.</p> <p>Employee is authenticated.</p> <p>New review record has been created in the HRDatabase or HRDatabase remains unchanged.</p>

<i>Use case name</i>	Read review record
<i>Participating actors</i>	ReviewParticipant, HRDatabase
<i>Flow of events: Normal flow</i>	<ol style="list-style-type: none"> <li>1. ReviewParticipant request review record.</li> <li>2. Include: Authorisation check</li> <li>3. HRDatabase delivers record to ReviewParticipant.</li> <li>4. ReviewParticipant finishes with access to the record.</li> </ol>
<i>Flow of events: Alternative flow</i>	<p>Authorisation check fails.</p> <p>3. No records are delivered to the user.</p>

<i>Pre-condition</i>	ReviewParticipant is authenticated. Review record exists.
<i>Post-condition</i>	ReviewParticipant is authenticated. ReviewParticipant was or was not shown a record. Record is unchanged in the database.
<i>Notes</i>	While a Director, HREmployee, the direct manager of the employee and a Manager given access to the employee's files by HR can read the review records, these systems are not being modelled in this UML, so we have chosen to exclude these situations from this scenario.

<i>Use case name</i>	Amend review record
<i>Participating actors</i>	ReviewParticipant, HRDatabase
<i>Flow of events: Normal flow</i>	<ol style="list-style-type: none"> <li>1. ReviewParticipant requests to amend record.</li> <li>2. Include: Authorisation check.</li> <li>3. Include: Read review record.</li> <li>4. Amend the record.</li> <li>5. Save amended record to HRDatabase.</li> </ol>
<i>Flow of events: Alternative flow</i>	<p>Authorisation check fails. 2. Write access to the record is denied.</p> <p>Record cannot be retrieved. 3. Record is not available.</p> <p>Record not be saved. 4. Amended details are lost.</p> <p>ReviewParticipant cancels amendment. 5. Amended details are lost.</p>
<i>Pre-condition</i>	ReviewParticipant is authenticated. Review record exists.
<i>Post-condition</i>	ReviewParticipant is authenticated. Review record exists. Record has been amended or Record remains unchanged.

<i>Use case name</i>	Read past completed review records
<i>Participating actors</i>	ReviewParticipant, HRDatabase, Authorisation
<i>Flow of events: Normal flow</i>	<ol style="list-style-type: none"> <li>1. ReviewParticipant requests review records.</li> <li>2. Include: Authorization check</li> </ol>

	3. HRDatabase delivers list of records to ReviewParticipant. 4. Include: Read review record. 5. ReviewParticipant finishes with access to the records.
<i>Flow of events: Alternative flow</i>	Authorisation check fails. 2. No records are delivered to the user.
<i>Pre-condition</i>	ReviewParticipant is authenticated. Past review records for employee exist.
<i>Post-condition</i>	ReviewParticipant is authenticated. ReviewParticipant is/is not shown review records. Records are unchanged in the database.
<i>Notes</i>	Same as "Read Review Record"

<i>Use case name</i>	Record allocated reviewer
<i>Participating actors</i>	HREmployee, Manager, Director, Reviewer, HRDatabase
<i>Flow of events: Normal flow</i>	1. HREmployee requests access to HRDatabase to record reviewer details. 2. Include: Authorisation check. 3. Immediate Manager/Director of employee assigned to be a Reviewer. 4. HREmployee records details of 2nd Reviewer.
<i>Flow of events: Alternative flow</i>	2 <sup>nd</sup> reviewer can not be identified. 4. Allocation remains incomplete.
<i>Pre-condition</i>	Current date is within 2 weeks of the reviewee's employment date. HREmployee is authenticated. Incomplete review record exists. 2 <sup>nd</sup> Reviewer is not allocated.
<i>Post-condition</i>	Current date is within 2 weeks of the reviewee's employment date. HREmployee is authenticated. HRDatabase stores identity of the second reviewer for a particular employee or review record remains unchanged. 2 <sup>nd</sup> Reviewer is allocated or 2 <sup>nd</sup> Reviewer is not allocated.

<i>Use case name</i>	Sign off review
<i>Participating actors</i>	ReviewParticipant, HRDatabase

<i>Flow of events: Normal flow</i>	<ol style="list-style-type: none"> <li>1. ReviewParticipant(s) meet to perform annual performance review for the employee.</li> <li>2. Include: Read past completed review records.</li> <li>3. Include: Amend review record</li> <li>4. HREmployee is informed of the completed review.</li> </ol>
<i>Flow of events: Alternative flow</i>	<p>Agreement not reached on outcomes of the review.</p> <ol style="list-style-type: none"> <li>3. Review record not amended.</li> </ol> <p>Review not completed in the session.</p> <ol style="list-style-type: none"> <li>4. Follow-up meeting scheduled.</li> </ol>
<i>Pre-condition</i>	<p>ReviewParticipant is authenticated.</p> <p>Date is within 2 weeks of the reviewee's employment date.</p>
<i>Post-condition</i>	<p>ReviewParticipant is authenticated.</p> <p>Review is completed, review record amended and HR informed or Review is incomplete.</p> <p>All participants have now signed then the record is marked as read-only.</p>