



Software Testing Plan

Introduction For all software produced at KentSoft, we will be doing the following testing

Black Box Testing

| TestID | Test objective | Pre-condition | Steps | Expected outcome | Actual outcome | Status |
|--------|---------------------|---|--|---|---|--------|
| 1 | Login | User is not logged in | <ol style="list-style-type: none">1. User provides username, password and requested access rights.2. System records authentication attempt.3. System authenticates user.4. System provides requested access rights. | User is authenticated and has the correct access rights | User is authenticated and has the correct access rights | Pass |
| 2 | Logout | User is logged in and has access rights | <ol style="list-style-type: none">1. User logs out.2. Server revokes access rights.3. Server records end of authentication. | User is logged out and no longer has access rights | User is logged out and no longer has access rights | Pass |
| 3 | Authorisation Check | User is authenticated | <ol style="list-style-type: none">1. An authorisation check record is made.2. Check the user's authorisation to complete the requested action.3. Grant requested access. | User's authorisations are checked, and access is either granted or denied depending on check. | User's authorisations are checked, and access is either granted or denied depending on check. | Pass |

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|---|--------------------------------|--|---|---|---|------|
| 4 | Read Personal Details | User is authenticated and personal details exists. | <ol style="list-style-type: none"> 1. Request personal details record. 2. Authorization check 3. HR Database delivers record to user. 4. User finishes has access to record. | User can access and read personal detail record. | User can access and read personal detail record. | Pass |
| 5 | Create Personal Details Record | HR Employee is authenticated | <ol style="list-style-type: none"> 1. HR Employee requests a new personal details record. 2. Authorisation check. 3. A new personal details record is created. 4. New record is saved in the HR Database. | HR Employee is able create new personal detail record in HR database. | HR Employee is able create new personal detail record in HR database. | Pass |
| 6 | Amend Personal Details Record | HR Employee is authenticated and personal details exists | <ol style="list-style-type: none"> 1. Authorisation check to obtain write access. 2. Amend the record. 3. Save amended record to HR Database. | HR Employee is able to amend personal detail records. | HR Employee is able to amend personal detail records. | Pass |
| 7 | Create New Review Record | User is authenticated | <ol style="list-style-type: none"> 1. Employee requests a new review record. 2. Authorisation check. 3. A new review record is created. 4. Employee completes the details in the record. 5. New review record is saved in the HR Database. | Employee creates new review record in the HR database. | Employee creates new review record in the HR database. | Pass |

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|----|------------------------------------|--|--|---|---|------|
| 8 | Read Review Record | User is authenticated and the review record exists | <ol style="list-style-type: none"> 1. Request review record. 2. Authorization check 3. HR Database delivers record to user. 4. User finishes with access to the record. | User is able to read review record. | User is able to read review record. | Pass |
| 9 | Amend Review Record | User is authenticated and the review record exists | <ol style="list-style-type: none"> 1. Authorisation check to obtain write access. 2. Read review record. 3. Amend the record. 4. Save amended record to HR Database. | User is able to amend review record. | User is able to amend review record. | Pass |
| 10 | Read Past Completed Review Records | User is authenticated and completed review record exists | <ol style="list-style-type: none"> 1. Request review records. 2. Authorization check 3. HR Database delivers records to user. 4. User finishes with access to the records. | User is able to read past completed record. | User is able to read past completed record. | Pass |
| 11 | Perform Review | Date is within 2 weeks of the reviewee's employment date | <ol style="list-style-type: none"> 1. Reviewers and Employee meet to perform annual performance review for the employee. 2. Read past completed review records. 3. Amend review record 4. HR Employee is informed of the | Review is completed and added to database. | Review is completed and added to database. | Pass |

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|----|-------------------|------------------------------|--|--|--|------|
| | | | completed review. | | | |
| 12 | Allocate Reviewer | HR Employee is authenticated | <ol style="list-style-type: none"> 1. HR Employee requests access to HR Database to record reviewer details. 2. Authorisation check. 3. Immediate Manager/Director of employee assigned to be a reviewer. 4. HR Employee records details of 2nd Reviewer. 5. HR Employee informs Employee and Manager/Director reviewers of the review details. | A reviewer is added to carry out the review. | A reviewer is added to carry out the review. | Pass |

White Box Testing

We used JUnit tests along with automated Gradle tasks. We also used automated Pipeline JUnit tests.