## **Unit and Integration Test Plans**

Christian Crush

The test approach is the overall test strategy that underpins the whole test plan. A test approach asks, "How are you going to test the software?" If this Test Plan is part of a larger parent project and there are other Test Plans for other parts of the overall system then the test approach should dovetail with the other test approaches. Also, consider if you are going to use established, documented test processes or procedures or if you will need to tailor tests specifically for this project. If so, then name these documents and include them in the reference section.

**Use the templates below.**

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| Test Tools |
| 1 - Xunit |
| 2 - Selenium IDE |

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| Loom Videos |
| <https://www.loom.com/share/7641953434c440649ea8585c09fa9d79> |
| <https://www.loom.com/share/b9f6a0da45d84bd38f90e95abf3e0b45> |
| <https://www.loom.com/share/3288ba3f6e3c4aa7bc9fa657aaafe282> |
| <https://www.loom.com/share/e83fcbb42c374702a05c098843976ccd> |

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| COMPONENT TESTING | | | | |
| Component: | User Registration Module | | Name of Developer: | Noah Funderburgh |
| Name of Reviewer: | Noah Funderburgh | | | |
| Component Test Checklist | | | | |
| N/A | Pass/Fail | Reviewed by Developer | Comments | |
| **Functionality** | | | | |
|  | Pass | Noah Funderburgh | Ensure all registration fields are correctly validated and stored. | |
| N/A | Fail | Noah Funderburgh | Check Google Auth0 integration for user authentication. (Not implemented yet) | |
| Date: | 7/14/2024 | | | |
| **Performance** | | | | |
|  | Pass | Noah Funderburgh | Test the registration process under varying loads. | |
|  | Pass | Noah Funderburgh | Measure the time taken for registration completion. | |
| Date: | 7/14/2024 | | | |
| **Final Sign-Off and Approval** | | | | |
| Project Name: | Christian Crush | | | |
| Date: | 7/14/2024 | | | |

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| **UNIT TESTING** | | | | | | | | |
| **Project:** | Christian Crush | | | | **Name of Developer:** | | | Noah Funderburgh |
| **Name of Reviewer:** | | | | Noah Funderburgh | | | | |
| **Unit Test Checklist** | | | | | | | | |
| **N/A** | **Pass** | **Test** | | | | **Reviewed by Developer** | **Comments** | |
| **Functionality** | | | | | | | | |
|  | Pass | Registration/Login | | | | Noah Funderburgh | All registration and login functionality tested and working as expected. | |
| N/A | Fail | Google Auth0 | | | | Noah Funderburgh | Google Auth0 integration to be completed.  (Not implemented yet) | |
| Date: | 7/14/2024 | | | | | | | |
| **Other Validations** | | | | | | | | |
|  | Pass | Input Validation | | | | Noah Funderburgh | Input validation tested for all fields. | |
| Date: | 7/14/2024 | | | | | | | |
| **Processing** | | | | | | | | |
|  | Pass | Registration process | | | | Noah Funderburgh | Registration process flow tested. | |
|  | Pass | Login process | | | | Noah Funderburgh | Login process flow tested. | |
| Date: | 7/14/2024 | | | | | | | |
| **Code QA Checklist** | | | | | | | | |
| **N/A** | **Pass** | **Category** | | | | **Reviewed by Developer** | **Comments** | |
| **Format and Style** | | | | | | | | |
|  | Pass | Indentation and spacing | | | | Noah Funderburgh | Code follows C# coding standards and conventions. | |
|  | Pass | Comments and Documentation | | | | Noah Funderburgh | Code is clean, well-documented, and consistent with style guidelines. | |
|  | Pass | Naming Conventions | | | | Noah Funderburgh | Variable and method names are descriptive | |
| Date: | 7/14/2024 | | | | | | | |
| **Coding Standards & Practices ( General I)** | | | | | | | | |
|  | Pass | Error Handling | | | | Noah Funderburgh | Adequate error handling is implemented, and exceptions are properly managed. | |
|  | Pass | Code Reusability | | | | Noah Funderburgh | Code is modular and components are reusable. | |
|  | Pass | Issues/Bugs | | | | Noah Funderburgh | No Major issues/bugs | |
| Date: | 7/14/2024 | | | | | | | |
| **Performance (if applicable)** | | | | | | | | |
|  | Pass | General Performance | | | | Noah Funderburgh | Program has little to no load time | |
| Date: | 7/14/2024 | | | | | | | |
| **Final Sign-Off and Approval** | | | | | | | | |
| Project Name- | | | Christian Crush | | | | | |
| Date- | | | 7/14/2024 | | | | | |

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| **ACCEPTANCE TEST FINAL REPORT** | | | | |
| **Project Name: Noah Funderburgh** | | | **Date: 7/14/2024** | |
| **Final Sign-Off and Approval (if applicable):** | | | | |
| The acceptance test effort for the Christian Crush project's login functionality is designed to ensure that this critical feature meets the specified requirements and provides a seamless user experience. This phase involves verifying that the login system operates as expected in a real-world environment and satisfies the needs of the end users. The acceptance test effort will encompass several key areas, including functionality, performance, usability, and security, specifically for both native and Google Auth0 login methods. Ensuring that users can securely and efficiently log into the system is paramount, as it forms the gateway to accessing all other features of the application. | | | | |
| **Unresolved Defects** | | | | |
| **Issue/Defect** | **Impact**  **(H, M, L)** | **Risk Mitigation (If known)** | | **Work Around**  **(If known)** |
| Google Auth0 Login | H | Implement alternative authentication method | | Users can login through the systems native login method |
| Google Auth0 Registration | H | Implement alternative registration method | | Users can register through the system’s native registration method |

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| **Requirements Testing** | | | | | |
| Step | Operator Action | Expected Results | Observed Results | Pass/Fail | Date |
| 1 | Login to the system | User should be able to log in the system and home page screen appears for entering data. | The user can log in the system and enter data | Pass | 7/14/2024 |
| 2 | Register as a new user | User should be able to register to create an account to login | The user can register a new account | Pass | 7/14/2024 |
| 3 | Can’t register with duplicate email | User can only register if the email is unique | The user cannot register if email isn’t unique | Pass | 7/14/2024 |
| 4 | Password encryption | User's password should be encrypted before storing in the database | The user's password is encrypted and stored securely | Pass | 7/14/2024 |
| 5 | Logout functionality | User should be able to log out of the system | The user can log out successfully | Fail | 7/14/2024 |

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| **Reference Documents** |

1. If you are going to use established, documented test processes or procedures or if you will need to tailor tests specifically for this project, name these documents and include them in this reference section.

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| **Overall Instructor Feedback/Comments** |