### Definition of Done (DoD) Document

\*\*Project Name: GadgetHub\*\*

\*\*Version: 1.0\*\*

\*\*Date: 03/06/2024\*\*

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#### Purpose

The Definition of Done (DoD) is a shared understanding of expectations that a piece of work must live up to in order to be considered complete. This ensures quality and consistency across the project.

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#### General Criteria

1. \*\*Code Conventions\*\*

    - Code must adhere to the project's coding standards and guidelines.

    - Code is reviewed and approved by at least one peer.

2. \*\*Acceptance Criteria\*\*

    - All acceptance criteria outlined in the user stories are met.

    - Functional requirements specified in the user story are implemented.

3. \*\*Testing\*\*

    - Unit tests are written and passing.

    - Integration tests are written and passing.

    - System/End-to-end tests are conducted and passing.

    - No critical bugs or high-priority issues are outstanding.

4. \*\*Documentation\*\*

    - Code is commented where necessary.

    - User documentation (if applicable) is updated.

    - Any relevant diagrams or flowcharts are updated.

5. \*\*Branching and Merging\*\*

    - Changes are made on a feature branch.

    - Branch is up-to-date with the main branch before merging.

    - Code is successfully merged into the main branch without conflicts.

6. \*\*Deployment\*\*

    - The feature is deployed to the staging environment.

    - Smoke tests on the staging environment pass.

7. \*\*Approval\*\*

    - Product Owner/Manager has reviewed and approved the feature.

    - Stakeholder sign-off (if applicable) is obtained.

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#### Detailed Criteria

1. \*\*Code Conventions\*\*

    - Code is formatted according to the project’s coding standards.

    - Proper naming conventions are followed.

    - No commented-out code in the final submission.

2. \*\*Acceptance Criteria\*\*

    - Every acceptance criterion in the user story is verified with tests.

    - Edge cases are considered and tested.

3. \*\*Testing\*\*

    - \*\*Unit Tests\*\*

        - Coverage of at least 80%.

        - No failing tests.

    - \*\*Integration Tests\*\*

        - All integrations with external systems are tested.

    - \*\*System Tests\*\*

        - User flows are tested from end to end.

        - Performance tests meet the defined benchmarks.

    - \*\*Manual Testing\*\*

        - User interface is tested for usability and accessibility.

        - Regression testing is performed to ensure new changes do not affect existing functionality.

4. \*\*Documentation\*\*

    - Inline comments for complex logic.

    - Updated README with instructions for setup and usage (if applicable).

    - API documentation (if applicable) is updated.

5. \*\*Branching and Merging\*\*

    - The feature branch is regularly rebased with the main branch to minimize merge conflicts.

    - The final merge into the main branch is done through a pull request.

    - Pull request is reviewed and approved by at least one other team member.

6. \*\*Deployment\*\*

    - Feature is deployed to a staging environment for final verification.

    - All deployment scripts are tested and verified.

    - Post-deployment smoke tests confirm the feature works as expected in staging.

7. \*\*Approval\*\*

    - Product Owner/Manager checks that all acceptance criteria are met.

    - Sign-off from any relevant stakeholders.

    - All feedback from reviews and testing is addressed.

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#### Final Notes

- \*\*Continuous Improvement\*\*: The DoD is a living document and should be reviewed regularly and updated as necessary to reflect changes in project standards and practices.

- \*\*Quality Assurance\*\*: Adherence to the DoD ensures high-quality deliverables that are consistent and meet stakeholder expectations.

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\*\*Approved by:\*\*

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\*\*Version History:\*\*

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| Version | Date | Description | Author |
| 1.0 | 03/06/2024 | Initial Version | Me |

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