Software Quality Assurance Plan

FitMate Mobile Application

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Revision History

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* Generated the table of contents page
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* Generated Purpose and Scope section
* Generated Definitions and Acronyms section
* Generated Reference Documents section

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* Added links to reference documents section

Table of Figures

Contents

[Purpose and scope 5](#_Toc178959027)

[Definitions and acronyms 5](#_Toc178959028)

[Reference documents 5](#_Toc178959029)

[SQA plan overview 5](#_Toc178959030)

[Organization and independence 5](#_Toc178959031)

[Software product risk 5](#_Toc178959032)

[Tools 5](#_Toc178959033)

[Standards, practices, and conventions 5](#_Toc178959034)

[Effort, resources, and schedule 5](#_Toc178959035)

[Activities, outcomes, and tasks 5](#_Toc178959036)

[Product assurance 5](#_Toc178959037)

[Evaluate plans for conformance 5](#_Toc178959038)

[Evaluate product for conformance 5](#_Toc178959039)

[Evaluate product for acceptability 5](#_Toc178959040)

[Evaluate product life cycle support for conformance 5](#_Toc178959041)

[Measure products 5](#_Toc178959042)

[Process assurance 5](#_Toc178959043)

[Evaluate life cycle processes for conformance 5](#_Toc178959044)

[Evaluate environments for conformance 5](#_Toc178959045)

[Evaluate subcontractor processes for conformance 5](#_Toc178959046)

[Measure processes 6](#_Toc178959047)

[Assess staff skill and knowledge 6](#_Toc178959048)

[Additional considerations 6](#_Toc178959049)

[Contract review 6](#_Toc178959050)

[Quality measurement 6](#_Toc178959051)

[Waivers and deviations 6](#_Toc178959052)

[Task repetition 6](#_Toc178959053)

[Risk to performing SQA 6](#_Toc178959054)

[Communications strategy 6](#_Toc178959055)

[Non-conformance process 6](#_Toc178959056)

[SQA records 6](#_Toc178959057)

[Analyze, identify, collect, file, maintain and dispose 6](#_Toc178959058)

[Availability of records 6](#_Toc178959059)

## Purpose and scope

## The purpose of this Software Quality Assurance Plan (SQAP) is to establish the framework for ensuring the quality of the FitMate Mobile Application being developed by CodeCrafters Ltd. for VitalTech Solutions under the terms of the development contract. This plan defines the quality objectives, standards, and processes that both parties have agreed to, ensuring the software product meets the specified requirements and adheres to industry standards.

## The scope of this SQAP covers all phases of the software development lifecycle, from requirements gathering, design, and implementation through to testing, deployment, and maintenance. It applies to all activities outlined in the development contract, including quality reviews, testing, audits, defect tracking, and corrective actions. The plan also defines the roles and responsibilities of both VitalTech Solutions and CodeCrafters Ltd., ensuring that there is clear accountability for meeting contractual quality obligations.

## Definitions and acronyms

### Definitions

* **Software Quality Assurance (SQA)**: A set of activities conducted to ensure that the software development process and its deliverables meet predefined quality standards. These activities include reviews, audits, and testing to prevent defects and ensure that the product functions as intended.
* **Development Contract**: A legally binding agreement between **VitalTech Solutions** and **CodeCrafters Ltd.** outlining the terms and conditions for developing the **FitMate Mobile Application**. The contract includes specifications, timelines, deliverables, and quality requirements that must be met by both parties.
* **User Acceptance Testing (UAT)**: The final phase of the software testing process in which the software is tested by the end users (or representatives of the customer) to ensure that it meets their requirements and functions as expected in real-world conditions.
* **Corrective Action**: A measure taken to address defects or issues identified during testing or audits, ensuring that the software complies with the requirements outlined in the development contract. Corrective actions are critical to maintaining software quality.
* **Defect**: Any deviation from the specified requirements of the **FitMate Mobile Application**. Defects can include software bugs, unexpected behavior, or failure to meet functional or performance criteria.

### Acronyms

* **SQA**: Software Quality Assurance
* **SQAP**: Software Quality Assurance Plan
* **UAT**: User Acceptance Testing
* **IEEE**: Institute of Electrical and Electronics Engineers
* **SDLC**: Software Development Life Cycle

## Reference documents

1. **Development Contract: VitalTech Solutions and CodeCrafters Ltd.**  
   Description: This contract outlines the scope, deliverables, timelines, and quality requirements for the development of the FitMate Mobile Application. It also specifies the roles and responsibilities of both parties and includes the acceptance criteria for the final product.
2. [**IEEE 730-2014 Standard for Software Quality Assurance Plans**](https://ieeexplore-ieee-org.byui.idm.oclc.org/document/6835311)  
   Description: The IEEE 730-2014 standard provides guidelines and best practices for developing and implementing Software Quality Assurance Plans, which form the basis for this document.

## SQA plan overview

### Organization and independence

### Software product risk

### Tools

### Standards, practices, and conventions

### Effort, resources, and schedule

# Activities, outcomes, and tasks

## Product assurance

### Evaluate plans for conformance

### Evaluate product for conformance

### Evaluate product for acceptability

### Evaluate product life cycle support for conformance

### Measure products

## Process assurance

### Evaluate life cycle processes for conformance

### Evaluate environments for conformance

### Evaluate subcontractor processes for conformance

### Measure processes

### Assess staff skill and knowledge

# Additional considerations

## Contract review

## Quality measurement

## Waivers and deviations

## Task repetition

## Risk to performing SQA

## Communications strategy

## Non-conformance process

# SQA records

## Analyze, identify, collect, file, maintain and dispose

## Availability of records