How to Use the Form:

- 1. All BLACK text shall remain in the document. BLUE text serves as instructions, description, or examples and is to be deleted, modified and replaced. All GREY text is to be evaluated for relevance within the SOP, if the GREY text is relevant the text shall be turned BLACK, if the GREY text is not relevant it shall be deleted.
- 2. All text shall be BLACK when completed.
- 3. Delete this page after creating the document.

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Project Development Plan for <Offering ID>

PROJECT DEVELOPMENT PLAN APPROVALS

The following people acknowledge that:

The appropriate Project Development activities are to be conducted for the <Offering ID>.

Approval Signatures:

Role	Signature (Printed Name)	Date (dd-MMM-yyyy)
		, 33337
<offering manager="" or<br="">Delivery Manager></offering>	<reviewer's name="" printed=""></reviewer's>	
Development Manager	<reviewer's name="" printed=""></reviewer's>	
Quality and Regulatory Lead	<reviewer's name="" printed=""></reviewer's>	
Architecture	<reviewer's name="" printed=""></reviewer's>	
Independent Reviewer	<reviewer's name="" printed=""></reviewer's>	

Project Development Plan - < Offering ID>

Date: <dd-MMM-yyyy>

Version: <Insert version of Plan>

Initiator(s): <Insert the name(s) of person(s)

who are completing the form>

Role: <Insert the Initiator(s) Role(s)>

1 Purpose

2 Scope

1.1. In Scope

1.2. Out of Scope

3 Definitions, Abbreviations, Acronyms

Terms listed here are found within the content of this document.

General terms are defined in black and required for all SOPs and Work Instructions. The table should be sorted by Term, alphabetically.

Term	Definition	Abbrev./ Acronym
Code of Federal Regulations	Is the codification of the general and permanent rules and regulations (sometimes called administrative law) published in the Federal Register by the executive departments and agencies of the federal government of the United States	CFR
Good x (Clinical, Manufacturing, Laboratory) Practices	Good "anything" Practices per Watson Health QMS specific to food, drug, biologics or devices	GxP Also (GCP, GMP, GLP)
Offering or Solution	IBM Watson Health software, hardware, or services designed to deal with a problem or need, which is comprised of technology and/or support, and is packaged, sold, delivered and/or offered commercially.	

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Project	The highest level of organization of an offering. It represents the entire system that is offered to a client. It encompasses all of the activity from planning to validation and release of the offering to the market. The Project results in the creation of the Device History File (DHF) and encompasses one or more instances of offerings released to the market (e.g., same base software developed for different markets, applications, etc.). The Project is authorized by the Decision Execution Team (DET) or the Delivery Executive. The Project can continue indefinitely over the life cycle of the offering to control subsequent releases under Change Management.	
Quality Management System	A collection of business processes focused on achieving quality policy and quality objectives to meet customer and regulatory requirements (includes organizational structure, policies, procedures, and resources).	QMS
Record	A document retained as evidence of action that needs formal management under a QMS.	
Standard Operating Procedure	Established or prescribed methods to be followed routinely for the performance of designated operations or in designated situations	SOP
Watson Health	IBM Healthcare unit	WH

References

4.1 Prerequisites

List of procedures or documents that must be read or trained on prior to using this procedure.



4.1.1 First prerequisite, etc.

4.2 Dependencies

List of procedures or documents associated with this procedure that may need update if this document is changed, refer to the Document Log XXX for dependencies

4.2.1 First dependency, etc.

4.3 Regulations / Guidance / Standards

List regulations, guidance documents, or standards that apply to the procedure (if listed in background, corresponds here); if global requirements apply, address generally

4.3.1 First Regulations/Guidance/Standards, etc.

5 Project Overview

<Insert Goals and Objectives of the project (i.e., what is to be developed)>

6 Project Roadmap

<Insert or attach high-level roadmap showing planned releases with the associated
functionality(ies) for each release>

7 Major Tasks and Deliverables

<Identify major tasks to be undertaken, deliverables for the tasks and corresponding individuals or teams responsible for completing the tasks>

Role	Key De	livera	ble				
R - Responsible (creating deliverable) A - Accountable (ensures deliverable is done) C - Contributor I - Informed	Project Development Plan	Design Input Specification	Build	Verification and Validation Plan	Verification and Validation Protocol	Vernication and Validation Summary Report	<add as="" needed=""></add>
Project Leader	R	1		- 1	Α	- 1	
Tester		С	-	R,C	R,C	R,C	
Quality and Regulatory Representative	I	I	-	I	А	I	

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Quality and Regulatory Lead	I		-	-	I	I	
Offering Manager	С	R,C	-	-	Α	I	
Functional Manager of Architect	С	С	-	-	-	I	
Development Team	С	R,C	R	С	С	С	
Independent Reviewer (Name)	I	I	-	-	-	I	
Functional Manager of Development	С	С	С	I	I	I	
<add (e.g.,="" as="" lead)="" needed="" technical=""></add>							

<Or use the approach below>

Planning (include timing at the high-level (eg., Q2 2017))

Project Planning

- Task- Create Project Development Plan (this document)
 - Deliverable Project Development Plan (this document).
 - Teams Development, Testing Lead, Architecture, Offering Management, Quality and Regulatory, Independent Reviewer, Analytics, Commercial Operations, Project Leader
- Task Plan Design Review
 - o Deliverable Design Review record
 - Teams Development, Testing Lead, Architecture, Offering Management, Quality and Regulatory, Independent Reviewer, Analytics, Commercial Operations, Project Leader

Design Inputs: (ie. High Level & Detailed Requirements)

- Tasks —Create High Level Requirements
 - o Deliverables Design High Level Input Specifications
 - Teams Development, Testing, Architecture, Offering Management, Quality and Regulatory, Independent Reviewer, Analytics, Commercial Operations, Project Leader

Project Development Plan - <Offering ID> Document Number: <#> Version: <#>

- Tasks High Level Requirements Review
 - Deliverable Design Review record
 - Teams Development, Testing Lead, Architecture, Offering Management, Quality and Regulatory, Independent Reviewer, Analytics, Commercial Operations, Project Leader
- Task Create Detailed Requirements
 - Deliverable Design Detailed Input Specifications
 - Teams Development, Testing Lead, Architecture, Offering Management, Quality and Regulatory, Independent Reviewer, Analytics, Commercial Operations, Project Leader
- Task Detailed Level Requirements Review
 - Deliverable Design Review Record
 - Teams Technical Reviewer, Q&R Rep

Design Outputs

Tasks – Design, code, unit tests

Deliverables – build of executables

Design Verification and Validation

- Tasks Create and Review Verification and Validation Plan-
 - Deliverable Verification and Validation Plan (Comprehensive Test Plan)
 - Teams Testing, Project Leader, Quality and Regulatory
- Tasks Create and Review the Verification Validation Test Protocol
 - Deliverable Verification Validation Test Protocol
 - Teams Testing, Project Leader, Quality and Regulatory
- Task Test Execution/Defect Management
 - Deliverable Completed test cases
 - Teams QA, Project Leader, Quality and Regulatory
- Task Create the Verification and Validation Summary Report
 - Deliverable Validation Summary Report

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 Teams – Development, QA Testing Lead, Architecture, Offering Management, Quality and Regulatory, Independent Reviewer, Analytics, Commercial Operations, Project Leader

- Task Testing Review
 - Deliverable Design Review record
 - o Teams Development, QA Testing Lead, Architecture, Offering Management, Quality and Regulatory, Independent Reviewer, Analytics, Commercial Operations, Project Leader

Design Transfer and Deployment to Pre-Production (see Installation SOP (WH QMS SOP 0019 for information)

- Tasks a verification test(s) confirm the functionality of the Offering prior to release into a production environment
 - Team Installers
 - Deliverable Offering Release Record, Release of the Offering

Design Changes

- Task Manage design changes
 - Deliverables Change Request Form
 - o Teams Development, QA Testing Lead, Architecture, Offering Management, Quality and Regulatory, Independent Reviewer, Analytics, Project Leader

Risk Management

- Task Create the Risk Management file
 - Deliverables Risk Management Plan, Risk Assessments
 - o Teams Development, QA Testing Lead, Architecture, Offering Management, Quality and Regulatory, Independent Reviewer, Analytics, Project Leader

Document Control (Maintenance and Management of Design History File)

- Task- Manage all project records
 - Deliverables compilation of all the DHF records

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8 Definition of timing of the Release and approvals to move to the next phase of the Release.

<Insert or reference timeline for releases and approval gates>

9 Identification of Offering Classification

<Insert classification >

10 Identification of Major Interdependencies of Key Activities

<List and describe any interdependencies of key activities>

11 Software Development Approach

<Identify the software development life cycle procedure that will be followed including any specific *tailoring* of the process. Include all supporting procedural documentation that will be used in the development of the software including vendor-supplied documentation (e.g., user/reference manuals).

12 Integration Planning

<Indicate the high level plan for integration of the components of the Offering>

13 Verification and Validation Planning

<Indicate the high-level Verification and Validation Plan>

14 Plan for Software of Unknown Provenance (SOUP)

<Indicate the plan for Software of Unknown Provenance (SOUP) which includes open source, off-the-shelf, or previously developed for which adequate records of the development process are not available. Consider the controls that will be around it (e.g., code reviews), rationale for how the SOUP will be dealt with, how the software will be incorporated and maintained, specify any specific verification and validation processes</p>

SOUP plan must include at a minimum the requirements associated with the SOUP, plus verification and validation plans. The amount of detail needed for controlling SOUP is dependent on the safety risk to the end user and patients and any other relevant information (e.g., business needs).>

15 Software Configuration and Change Management

<Indicate the plan for addressing the software configuration and change management processes in the development (including the SOUP (Software of Unknown Provenance) configuration items and software used to support development)>

16 Software Used to Support Development

<List the software used to support development of the Offering>

17 Software Resolution Plan

<Indicate the plan for software resolution and handling problems detected in the software products, deliverables and activities at each stage of the development>

18 Risk Management Plan

<Indicate high level risk management plan>

19 Traceability Plan

<Indicate the plan for addressing traceability between system requirements, software requirements, design information, software system tests, and risk control measures implemented in the software.>

20 Document Control and Records Management

<Indicate plan for document control and records management>

21 Description of Planned Deviations (if applicable)

<Description of planned deviations>

22 Design Review Committee Members Selection

- Planning Review Committee
 - <Insert Review Committee Member Name (Role) and indicate lead with a *>
 - <Name (Offering Manager/Delivery Manager), Name (Quality and Regulatory Lead), Name (Development Manager), Name (Senior Architect), Name (Independent Reviewer)>
- Requirements Review Committee
 - <Insert Review Committee Member Name (Role) and indicate lead with a *>
 - <Name (Offering Manager/Delivery Manager), Name (Development Manager), Name (Tester), Name (Architect), Name (Quality and Regulatory Lead), Name (Independent Reviewer)
- Testing Review Committee
 - <Insert Review Committee Member Name (Role) and indicate lead with a *>
 - <Name (Offering Manager/Delivery Manager), Name (Development Manager), Name (Tester), Name (Quality and Regulatory Lead), Name (Independent Reviewer)>

Template Version History

Version	Change	Revised By	Date (dd-MMM-yyyy)
1.0	Original	N/A	
2.0	Describe	Author Name	