

Verification and Validation Report: Software Engineering

Team #22, TeleHealth Insights

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1 Revision History

Date	Version	Notes
Date 1	1.0	Notes
Date 2	1.1	Notes

2 Symbols, Abbreviations and Acronyms

symbol	description
T	Test

[symbols, abbreviations or acronyms – you can reference the SRS tables if needed
—SS]

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This document contains the team's verification and validation report for the TeleHealth Insights project. This document features functional requirements evaluation, nonfunctional requirements evaluation, unit testing, changes due to testing, automated testing, trace to requirements, trace to modules, and code coverage metrics.

3 Functional Requirements Evaluation

The following section covers all the functional requirements tests specified in the project's VnV Plan document. The coverage can be traced in Table X.

3.1 Authentication

The test cases below focus on ensuring users can safely and securely login, create and access their accounts without worrying about others accessing their information.

Test Case Identifier: FR-ST-A1

Input: Selection of Parent account role for login

Expected Output: The expected result is the Parent account role is selected and User is brought to the Parent login screen

Actual Output:

Expected and Actual Output Match: True

Relevant Functional Requirement(s): FR-A1

3.2 Data Collection and Storage

The test cases below focus on ensuring data is collected and stored correctly. We test to make sure no identifiable information is stored in the database and we also check that all multimedia data is linked correctly to user assignment.

Test Case Identifier: FR-ST-DSC1

Input: Insertion of multimedia files into the database

Expected Output: A success message in the console for both storing and retrieving the data; the retrieved files are uncorrupted and match the original

files

Actual Output: A success message in the console and a link to multimedia file

Expected and Actual Output Match: True

Relevant Functional Requirement(s): FR-DSC1

Test Case Identifier: FR-ST-DSC2

Input: Insertion of a test assessment session with video, audio files, flagged occurrences, and timestamps for each assessment question

Expected Output: Creation of a JSON file containing the flagged occurrences and timestamps stored alongside the session data

Actual Output: A JSON file was created in AWS with the correct expected output

Expected and Actual Output Match: True

Relevant Functional Requirement(s): FR-DSC2

Test Case Identifier: FR-ST-DSC3

Input: Attempted insertion of a record containing personally identifiable information (e.g. address)

Expected Output: The console throws an error as no such field exists for personal information

Actual Output: The database throws an invalid payload error

Expected and Actual Output Match: True

Relevant Functional Requirement(s): FR-DSC3

Test Case Identifier: FR-ST-DSC4

Input: Insertion of multiple sessions, each tagged with a unique user identifier

Expected Output: All session data is stored and correctly grouped under their

respective unique user identifiers

Actual Output: The database creates folders based on the unique identifiers

Expected and Actual Output Match: True

Relevant Functional Requirement(s): FR-DSC4

Test Case Identifier: FR-ST-DSC5

Input: Insertion of an assessment report linked to a patient's unique identifier

Expected Output: The report is successfully stored, linked to the corresponding patient identifier

Actual Output: The assessment is put into the correct folder and is added to the JSON that links multimedia to assignment

Expected and Actual Output Match: True

Relevant Functional Requirement(s): FR-DSC5

3.3 Video and Audio Data Analysis

The test cases below ensure that both video and audio data is correctly accessed, processed and stored in its respective user folder with no errors.

Test Case Identifier: FR-ST-VDA1

Input: Request by the analysis model to access video and audio data from a completed session

Expected Output: All requested videos and audio files are processed successfully with a corresponding success message logged

Actual Output: A success message in the console after video and audio are finished processing

Expected and Actual Output Match: True

Relevant Functional Requirement(s): FR-ST-VDA1

Test Case Identifier: FR-ST-VDA2, FR-ST-VDA3

Input: Video and audio data containing speech disturbances, interruptions, and other irregularities for analysis

Expected Output: A JSON file is generated that records the number of disturbances

Actual Output: A JSON file is created in the correct user folder with a link to the video and contains bias timestamps

Expected and Actual Output Match: True

Relevant Functional Requirement(s): FR-ST-VDA2, FR-ST-VDA3

3.4 Data Processing and Display

This set of test cases will help confirm the system's data retrieval, report generation, and display functionalities to ensure the clinician experience aligns with the project's goals.

Test Case Identifier: FR-ST-DPD1

Input: Query request for a specific patient's processed assessment data.

Expected Output: The expected result is the successful retrieval of all relevant assessment data, displayed without errors within MAX_PROCESSING_TIME

Actual Output: The expected result is the successful retrieval of all relevant assessment data, displayed with a minor error regarding the video recording progress bar within MAX_PROCESSING_TIME.

Expected and Actual Output Match: False

Relevant Functional Requirement(s): FR-DPD1

Test Case Identifier: FR-ST-DPD2

Input: Trigger for report generation based on a retrieved assessment dataset.

Expected Output: The expected result is a generated report containing all required data within MAX_PROCESSING_TIME.

Actual Output: The actual result is an online report dashboard containing all required data within MAX_PROCESSING_TIME.

Expected and Actual Output Match: True

Relevant Functional Requirement(s): FR-DPD2

Test Case Identifier: FR-ST-DPD3

Input: Clinician dashboard query to display the generated report.

Expected Output: The expected result is a report displayed in the clinician's dashboard with accurate formatting, charts, and tables, fully loaded within MAX_PROCESSING_TIME.

Actual Output: The actual result is a report displayed in the clinician's dashboard with accurate formatting and graphs, loaded within MAX_PROCESSING_TIME.

Expected and Actual Output Match: True

Relevant Functional Requirement(s): FR-DPD3

Test Case Identifier: FR-ST-DPD4

Input: Clinician request to access a specific previously generated report.

Expected Output: The expected result is successful retrieval and display of the requested report without errors, within MAX_PROCESSING_TIME.

Actual Output: The expected result is successful retrieval and display of the requested report displayed with a minor error regarding the video recording progress bar, within MAX_PROCESSING_TIME. **Expected and Actual Output Match:** False

Relevant Functional Requirement(s): FR-DPD4

3.5 System Set Up

The test cases below

Test Case Identifier: FR-ST-A1

Input: Selection of Parent account role for login

Expected Output: The expected result is the Parent account role is selected and User is brought to the Parent login screen

Actual Output:

Expected and Actual Output Match: True

Relevant Functional Requirement(s): FR-A1

3.6 Assessment Interface

The test cases below

Test Case Identifier: FR-ST-A1

Input: Selection of Parent account role for login

Expected Output: The expected result is the Parent account role is selected and User is brought to the Parent login screen

Actual Output:

Expected and Actual Output Match: True

Relevant Functional Requirement(s): FR-A1

4 Nonfunctional Requirements Evaluation

The following section covers all the nonfunctional requirements specified in the project's VnV Plan document. The coverage can be traced in Table X.

4.1 Look and Feel Requirements

These test cases ensure that all appearance and style requirements are addressed effectively, covering navigation, user-friendliness, brand consistency, visual appeal, and responsiveness.

Test Case Identifier: LF-ST-LFR1

Input: Conduct user tests with participants performing core tasks like starting an assessment, navigating menus, and viewing results.

Expected Output: The expected result is that at least VERY_HIGH_SUCCESS_RATE of users can complete all core tasks independently

Actual Output: The actual result is that at least VERY_HIGH_SUCCESS_RATE of users can complete all core tasks independently

Expected and Actual Output Match: True

Relevant Nonfunctional Requirement(s): LF-AR1, LF-AR2, LF-AR4

Test Case Identifier: LF-ST-LFR2

Input: Perform visual inspection and feedback collection, along with response-time measurements for interactive elements.

Expected Output: The expected result is that there is VERY_HIGH_SUCCESS_RATE consistency in design across all pages, HIGH_SUCCESS_RATE of user interactions provide immediate feedback within SHORT_PROCESSING_TIME, and positive feedback from usability testing participants is received regarding appearance.

Actual Output: The actual result is that there is VERY_HIGH_SUCCESS_RATE consistency in design across all pages, HIGH_SUCCESS_RATE of user interactions provide immediate feedback within SHORT_PROCESSING_TIME, and positive feedback from usability testing participants is received regarding appearance.

Expected and Actual Output Match: True

Relevant Nonfunctional Requirement(s): LF-AR3, LF-AR5, LF-SR1, LF-SR2

4.2 Usability and Humanity

The test cases below

Test Case Identifier: FR-ST-A1

Input: Selection of Parent account role for login

Expected Output: The expected result is the Parent account role is selected and User is brought to the Parent login screen

Actual Output:

Expected and Actual Output Match: True

Relevant Nonfunctional Requirement(s): FR-A1

4.3 Performance

The test cases outlined below ensures proper performance and stability of our system and database.

Test Case Identifier: PR-ST-SL1

Input/Condition: User navigates through various web pages.

Expected Output/Results: All web pages load completely with all functionalities within MAX_LOAD_TIME.

Actual Output/Results: All web pages load with correct data within MAX_LOAD_TIME.

Expected and Actual Output Match: True

Relevant Functional Requirement(s): PR-ST-SL1

Test Case Identifier: PR-ST-SL2

Input/Condition: A session is recorded during which two faces appear and a keyword is said.

Expected Output/Results: The latency between video and recorded playback remains below SHORT_PROCESSING_TIME.

Actual Output/Results: The latency is within the SHORT_PROCESSING_TIME when reviewing on clinician side

Expected and Actual Output Match: True

Relevant Functional Requirement(s): PR-ST-SL2

Test Case Identifier: PR-ST-SL3

Input/Condition: A video recorded during an assessment session is stored and later retrieved.

Expected Output/Results: The retrieved video meets or exceeds AVERAGE_RESOLUTION.

Actual Output/Results: Video is AVERAGE_RESOLUTION

Expected and Actual Output Match: True

Relevant Functional Requirement(s): PR-ST-SL3

Test Case Identifier: PR-ST-PA1, PR-ST-PA3

Input/Condition: Analysis model loaded with sample audio and video data containing known speech disturbances and multiple faces.

Expected Output/Results: The model detects speech and multiple faces with an accuracy of VERY_HIGH_SUCCESS_RATE.

Actual Output/Results: The model detects multiple faces with VERY_HIGH_SUCCESS_RATE but not speeches

Expected and Actual Output Match: False

Relevant Functional Requirement(s): PR-ST-PA1, PR-ST-PA3

Test Case Identifier: PR-ST-RFT1

Input/Condition: Simulate a common user errors (e.g., invalid inputs).

Expected Output/Results: The system displays clear error messages for at least VERY_HIGH_SUCCESS_RATE of the errors encountered.

Actual Output/Results: System gives correct feedback to user with a VERY_HIGH_SUCCESS_RATE

Expected and Actual Output Match: True

Relevant Functional Requirement(s): PR-ST-RFT1

Test Case Identifier: PR-ST-CR2

Input/Condition: Data stored in the database approaches the annual MIN_STORAGE threshold.

Expected Output/Results: The system accommodates the data volume without performance degradation.

Actual Output/Results: The system accommodates the MIN_STORAGE threshold with room to increase data storage

Expected and Actual Output Match: True

Relevant Functional Requirement(s): PR-ST-CR2

Test Case Identifier: PR-ST-LR1

Input/Condition: Monitor system stability over successive updates on the release build.

Expected Output/Results: The system's failure rate remains below LOW_FAILURE_RATE during updates.

Actual Output/Results: system failur rate remains below LOW_FAILURE_RATE during deployment of versions

Expected and Actual Output Match: True

Relevant Functional Requirement(s): PR-ST-LR1

Test Case Identifier: PR-ST-LR2

Input/Condition: The system is run on multiple operating systems (Windows, macOS).

Expected Output/Results: The system functions correctly on all tested platforms without issues.

Actual Output/Results: The system functions correctly on multiple operating systems

<p>Expected and Actual Output Match: True</p> <p>Relevant Functional Requirement(s): PR-ST-LR2</p>
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4.4 Operational and Environmental

The test cases below

<p>Test Case Identifier: FR-ST-A1</p> <p>Input: Selection of Parent account role for login</p> <p>Expected Output: The expected result is the Parent account role is selected and User is brought to the Parent login screen</p> <p>Actual Output:</p> <p>Expected and Actual Output Match: True</p> <p>Relevant Nonfunctional Requirement(s): FR-A1</p>
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4.5 Maintainability and Support

The test cases below

<p>Test Case Identifier: FR-ST-A1</p> <p>Input: Selection of Parent account role for login</p> <p>Expected Output: The expected result is the Parent account role is selected and User is brought to the Parent login screen</p> <p>Actual Output:</p> <p>Expected and Actual Output Match: True</p> <p>Relevant Nonfunctional Requirement(s): FR-A1</p>
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4.6 Cultural

These tests ensure that the platform respects cultural sensitivities and provides full bilingual support, enhancing inclusiveness and accessibility for diverse user groups.

Test Case Identifier: CU-ST-CUR1

Input: User acceptance testing gathers feedback from a diverse set of users.

Expected Output: The expected result is MAX_SUCESS_RATE of reviewed content is confirmed as culturally sensitive with no instances of offensive language or imagery.

Actual Output: The actual result is MAX_SUCESS_RATE of reviewed content is confirmed as culturally sensitive with no instances of offensive language or imagery.

Expected and Actual Output Match: True

Relevant Nonfunctional Requirement(s): CU-CR1

Test Case Identifier: CU-ST-CUR2

Input: Platform is available in both English and Mandarin, with all interface elements and assessments translated.

Expected Output: The expected result is MAX_SUCCESS_RATE of assessment content is fully translated and functional in both English and Mandarin with no untranslated elements.

Actual Output: The actual result is MAX_SUCCESS_RATE of assessment content is fully translated and functional in English, but only the assessment itself is also available in Mandarin.

Expected and Actual Output Match: False

Relevant Nonfunctional Requirement(s): CU-CR2

4.7 Security

The test cases below

Test Case Identifier: FR-ST-A1

Input: Selection of Parent account role for login

Expected Output: The expected result is the Parent account role is selected and User is brought to the Parent login screen

Actual Output:

Expected and Actual Output Match: True

Relevant Nonfunctional Requirement(s): FR-A1

4.8 Compliance

The test cases below

Test Case Identifier: FR-ST-A1

Input: Selection of Parent account role for login

Expected Output: The expected result is the Parent account role is selected and User is brought to the Parent login screen

Actual Output:

Expected and Actual Output Match: True

Relevant Nonfunctional Requirement(s): FR-A1

5 Comparison to Existing Implementation

As this project does not have existing implementations, this section is not appropriate for the TeleHealth Insights project.

6 Unit Testing

7 Changes Due to Testing

[This section should highlight how feedback from the users and from the supervisor (when one exists) shaped the final product. In particular the feedback from the Rev 0 demo to the supervisor (or to potential users) should be highlighted. —SS]

8 Automated Testing

8.1 Linters

To maintain a good coding standard, we integrated linters into our development workflow. For JavaScript files, we rely on Prettier to automatically format code, ensuring consistent indentation and spacing. By running Prettier as part of our pre-commit checks, any formatting concerns are addressed before merging into our main repository, which helps minimize merge conflicts and maintain a clean codebase.

8.2 Unit Testing

We use Jest as our primary JavaScript testing framework to automatically verify critical parts of our code before changes are merged into the main branch. This approach helps us catch issues early, maintain code quality, and keep the overall system stable.

8.3 Continuous Integration

We used continuous integration (CI) pipeline to automate test execution and provide immediate feedback whenever new code is committed. We configure GitHub Actions trigger to run our Jest unit tests, linters and document tests on each pull request or direct push to main, ensuring that only code meeting quality standards is always met.

9 Trace to Requirements

Table 1: Traceability Table Between System Test Cases and Functional Requirements
(Part 1)

	FR-ST-A1	FR-ST-A2	FR-ST-A3	FR-ST-A4	FR-ST-A5	FR-ST-A6	FR-ST-A7	FR-ST-A8	FR-ST-DSC1	FR-ST-DSC2	FR-ST-DSC3	FR-ST-DSC4	FR-ST-DSC5	FR-ST-VDA1	FR-ST-VDA2
FR-A1	X	X													
FR-A2			X	X											
FR-A3					X	X									
FR-A4							X								
FR-A5								X							
FR-SS1															
FR-SS2															
FR-SS3															
FR-SS4															
FR-SS5															
FR-AI1															
FR-AI2															
FR-AI3															
FR-AI4															
FR-AI5															
FR-AI6															
FR-AI7															
FR-DSC1									X						
FR-DSC2										X					
FR-DSC3											X				
FR-DSC4												X			
FR-DSC5													X		
FR-VADA1														X	
FR-VADA2															X
FR-VADA3															
FR-DPD1															
FR-DPD2															
FR-DPD3															
FR-DPD4															

Table 2: Traceability Table Between System Test Cases and Functional Requirements
(Part 2)

	FR-ST-VDA3	FR-ST-DPD1	FR-ST-DPD2	FR-ST-DPD3	FR-ST-DPD4	FR-ST-SS1	FR-ST-SS2	FR-ST-SS3	FR-ST-SS4	FR-ST-SS5	FR-ST-AI1	FR-ST-AI2	FR-ST-AI3	FR-ST-AI4	FR-ST-AI5	FR-ST-AI6	FR-ST-AI7
FR-A1																	
FR-A2																	
FR-A3																	
FR-A4																	
FR-A5																	
FR-SS1						X											
FR-SS2							X										
FR-SS3								X									
FR-SS4									X								
FR-SS5										X							
FR-AI1											X						
FR-AI2												X					
FR-AI3													X				
FR-AI4														X			
FR-AI5															X		
FR-AI6																X	
FR-AI7																	X
FR-DSC1																	
FR-DSC2																	
FR-DSC3																	
FR-DSC4																	
FR-DSC5																	
FR-VADA1																	
FR-VADA2																	
FR-VADA3	X																
FR-DPD1		X															
FR-DPD2			X														
FR-DPD3				X													
FR-DPD4					X												

10 Trace to Modules

Table 3: Traceability Table Between System Test Cases and Nonfunctional Requirements (Part 1)

	LF-ST-LFR1	LF-ST-LFR2	UH-ST-EOU1	UH-ST-PI1	UH-ST-LI2	PR-ST-SL1	PR-ST-SL2	PR-ST-SL3	PR-ST-PA1	PR-ST-PA3	PR-ST-PA4	PR-ST-RFT1	PR-ST-RFT2	PR-ST-CR1	PR-ST-CR2	PR-ST-SE1	PR-ST-LR1
LF-AR1	X																
LF-AR2	X																
LF-AR3		X															
LF-AR4	X																
LF-AR5		X															
LF-SR1		X															
LF-SR2		X															
UH-EOU1			X														
UH-EOU2			X														
UH-PI1				X													
UH-LI1			X														
UH-LI2					X												
UH-UP1			X														
UH-AR1			X														
PR-SL1						X											
PR-SL2							X										
PR-SL3								X									
PR-SL4																	
PR-SCL1																	
PR-PA1									X								
PR-PA2									X								
PR-PA3										X							
PR-PA4											X						
PR-PA5											X						
PR-RFT1												X					
PR-RFT2													X				
PR-RFT3												X					
PR-CR1														X			
PR-CR2															X		
PR-CR3														X			
PR-CR4														X			
PR-SE1																X	
PR-SE2															X		
PR-SE3															X		
PR-LR1																	X
PR-LR2																	
OE-EPE1																	
OE-WE1																	
OE-WE2																	
OE-IA1																	
MS-MR1																	
MS-SR1																	
MS-SR2																	
MS-AR1																	
SR-AC1																	
SR-AC2																	
SR-AC3																	
SR-AC4																	
SR-P1																	
SR-P2																	
SR-P3																	
SR-IM1																	
CU-CR1																	
CU-CR2																	
CR-STD1																	

11 Code Coverage Metrics

References

Table 4: Traceability Table Between System Test Cases and Nonfunctional Requirements (Part 2)

	PR-ST-LR2	OE-ST-EPE1	EO-ST-WE1	OE-ST-IA1	MS-ST-MSA1	MS-ST-MSA2	MS-ST-MSA3	CU-ST-CUR1	CU-ST-CUR1	SR-ST-AC1	SR-ST-AC2	SR-ST-AC3	SR-ST-AC4	SR-ST-DM1	CR-ST-D1	SR-ST-P1	SR-ST-P2	SR-ST-P3
LF-AR1																		
LF-AR2																		
LF-AR3																		
LF-AR4																		
LF-AR5																		
LF-SR1																		
LF-SR2																		
UH-EOU1																		
UH-EOU2																		
UH-P11																		
UH-L11																		
UH-L12																		
UH-P11																		
UH-AR1																		
PR-SL1																		
PR-SL2																		
PR-SL3																		
PR-SL4																		
PR-SCL1																		
PR-PA1																		
PR-PA2																		
PR-PA3																		
PR-PA4																		
PR-PA5																		
PR-RFT1																		
PR-RFT2																		
PR-RFT3																		
PR-CR1																		
PR-CR2																		
PR-CR3																		
PR-CR4																		
PR-SE1																		
PR-SE2																		
PR-SE3																		
PR-LR1																		
PR-LR2	X																	
OE-EPE1		X																
OE-WE1			X															
OE-WE2			X															
OE-IA1				X														
MS-MR1					X													
MS-SR1					X													
MS-SR2						X												
MS-AR1							X											
SR-AC1									X									
SR-AC2										X								
SR-AC3											X							
SR-AC4												X						
SR-P1															X			
SR-P2																X		
SR-P3																	X	
SR-DM1													X					
CU-CR1							X											
CU-CR2								X										
CR-STD1														X				

Appendix — Reflection

The information in this section will be used to evaluate the team members on the graduate attribute of Reflection.

The purpose of reflection questions is to give you a chance to assess your own learning and that of your group as a whole, and to find ways to improve in the future. Reflection is an important part of the learning process. Reflection is also an essential component of a successful software development process.

Reflections are most interesting and useful when they're honest, even if the stories they tell are imperfect. You will be marked based on your depth of thought and analysis, and not based on the content of the reflections themselves. Thus, for full marks we encourage you to answer openly and honestly and to avoid simply writing "what you think the evaluator wants to hear."

Table 5: Traceability Table Between System Test Cases and Modules

	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17
FR-ST-A1	X	X	X		X			X									
FR-ST-A2	X	X	X		X			X									
FR-ST-A3		X	X		X			X									
FR-ST-A4		X	X		X			X									
FR-ST-A5	X		X		X			X									
FR-ST-A6	X		X		X			X									
FR-ST-A7					X			X									
FR-ST-A8					X			X									
FR-ST-DSC1				X		X		X									
FR-ST-DSC2				X		X	X			X		X	X				
FR-ST-DSC3				X	X												
FR-ST-DSC4				X	X												
FR-ST-DSC5				X				X		X	X						
FR-ST-VDA1				X			X					X	X				
FR-ST-VDA2				X			X	X				X	X				
FR-ST-VDA3				X			X	X				X	X				
FR-ST-DPD1				X		X		X		X	X						
FR-ST-DPD2				X		X		X		X	X						
FR-ST-DPD3	X			X		X		X		X	X						
FR-ST-DPD4	X			X		X		X		X	X						
FR-ST-SS1		X	X														
FR-ST-SS2		X	X														
FR-ST-SS3		X	X														
FR-ST-SS4		X	X														
FR-ST-SS5		X	X						X								
FR-ST-AI1		X	X	X			X		X			X	X	X	X	X	
FR-ST-AI2		X	X	X			X		X			X	X	X	X	X	
FR-ST-AI3		X	X	X			X		X			X	X	X	X	X	
FR-ST-AI4		X	X	X			X		X			X	X	X	X	X	
FR-ST-AI5		X	X	X		X	X		X			X	X	X	X	X	
FR-ST-AI6		X	X	X			X		X			X	X	X	X	X	
FR-ST-AI7		X	X	X			X		X			X	X	X	X	X	X

Please answer the following questions. Some questions can be answered on the team level, but where appropriate, each team member should write their own response:

1. What went well while writing this deliverable?
2. What pain points did you experience during this deliverable, and how did you resolve them?
3. Which parts of this document stemmed from speaking to your client(s) or a

proxy (e.g. your peers)? Which ones were not, and why?

4. In what ways was the Verification and Validation (VnV) Plan different from the activities that were actually conducted for VnV? If there were differences, what changes required the modification in the plan? Why did these changes occur? Would you be able to anticipate these changes in future projects? If there weren't any differences, how was your team able to clearly predict a feasible amount of effort and the right tasks needed to build the evidence that demonstrates the required quality? (It is expected that most teams will have had to deviate from their original VnV Plan.)

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