

Human-Centered Innovation: Q.U.E.S.T.

SELF-GUIDED WORKSHEET

This workbook will help guide you through a human-centered innovation process, helping you understand your challenge, connect with your users, explore creative possibilities, and ultimately define impactful solutions rooted in real needs.

A Focus on People and Stories

QUEST uniquely emphasizes uncovering and using the stories of your users throughout the entire process. This human-centered approach ensures you're addressing real needs and creating relatable solutions.

Be Open and Curious

Approach each stage with a willingness to explore new perspectives, challenge your assumptions, and embrace the unexpected.

Focus on Your Users

Continuously center your thinking around the needs, motivations, and pain points of the people you are designing for. Their experiences are the foundation of impactful innovation.

It's a Flexible Journey

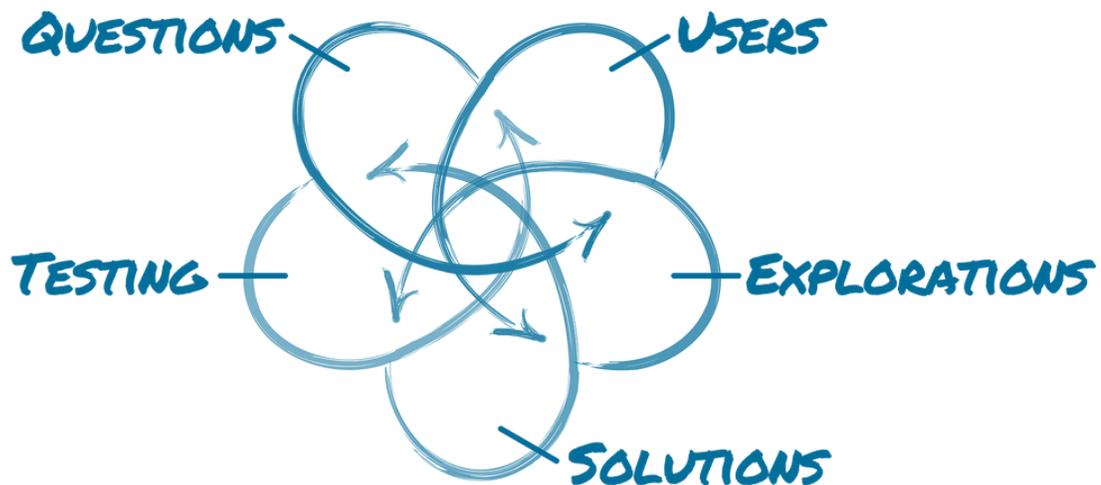
QUEST provides a structured path, but innovation rarely happens in a straight line. Feel free to revisit previous sections as you learn and your understanding deepens. This iterative process is key to achieving the best outcomes.

Capture Your Insights

Document your thoughts, ideas, and learnings for each prompt. There are no wrong answers in the exploration phase, and these notes will be invaluable as you progress.

Applicable to Anything

The principles of QUEST are universal. Whether you're working on digital products, physical services, or any other type of experience, this framework can help you innovate effectively.



QUESTIONS, GOALS + HYPOTHESES

Understand the core problem and initial context by asking critical questions to lay the groundwork for the entire process. This stage informs all subsequent stages by defining the focus.

Start with a clear Problem Statement

A _____ who feels _____ about _____ needs to _____ but faces _____.
<user role> <negative feeling> <reason> <step> <obstacle>

Credit: [Eightshapes](#)

Foundational Questions

Core challenge(s) to address

Customer benefits of addressing challenge(s)

What's confidently known or understood

What don't we know (with confidence)

Desired Business Outcomes

Desired User Outcomes

 Visit www.thequestmodel.com for additional resources

- Facts, Observations, Guesses (F.O.G.) session template
- Customer benefit workshop template

Iterative Pathways:

- If initial research reveals significant unmet user needs or a poorly understood problem, **consider moving directly to the Users stage** to conduct more in-depth generative research to inform the problem statement.
- If the desired outcomes are unclear or not aligned among stakeholders, **revisit this Questions stage** to have further discussions and refine the goals before proceeding.

USERS + ASSUMPTIONS

Develop deep empathy for users and identify underlying assumptions about them to ensure the solutions are relevant and user-centered. This understanding directly informs Exploration and Solution Exploration.

Who are our primary users?

Describe the main individuals or groups you are designing for. Be as specific as possible. Consider their roles, demographics, and any other relevant characteristics.

What are their needs, motivations, and pain points related to this challenge?

Consider what drives them, what they hope to achieve, and what frustrates them in their current situation. Reference any prior user research if available.

Current behaviors or experiences

Expectations of a potential solution

EXPLORATION

Generate a broad range of diverse and unconventional ideas without judgment to expand the solution space. This divergent thinking provides raw material for the more focused Solution Exploration.

“Crazy Eights” Brainstorming Exercise

- What are a wide range of potential approaches, even unconventional ones?
- What solutions exist in seemingly unrelated domains that could inspire us?
- What are different perspectives on this problem? Have we considered various angles?
- What if we challenged the initial constraints?
- What are some blue-sky ideas, unconstrained by immediate feasibility?

Start a timer for **8 minutes** and fill in each box with a different solution to your challenge. You may slow down after your first few obvious ideas but force yourself to keep working and fill the page. There are no right answers so don't allow yourself to filter out ideas at this stage.

Recap as a Group: Share, Listen, and Build

Once everyone has completed their first set of eight sketches, it's time to share the wealth! Each person should briefly present their ideas to the group. As you listen and look at the other sketches, actively seek out interesting elements, potential combinations, or even just different perspectives. Don't be afraid to jot down quick notes or sketches of these new thoughts. After everyone has shared, the magic happens: grab a new sheet of paper and do another round of Crazy Eights. This time, consciously try to incorporate or build upon the ideas you've just seen and heard. You'll be amazed at how this collaborative riffing can lead to unexpected breakthroughs!

On Your Own: Reflect and Repeat

If you're tackling this solo, take a few minutes after your first round to review your eight sketches.

- What are the most interesting or promising ideas?
- Are there any connections between them?
- How could you push a particular idea further or combine elements from different sketches?

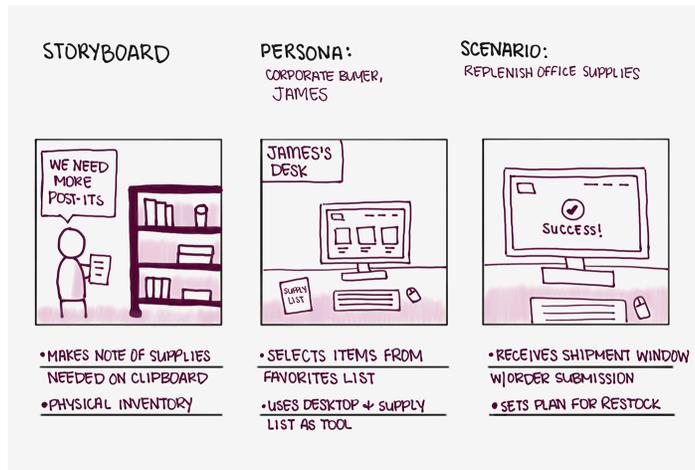
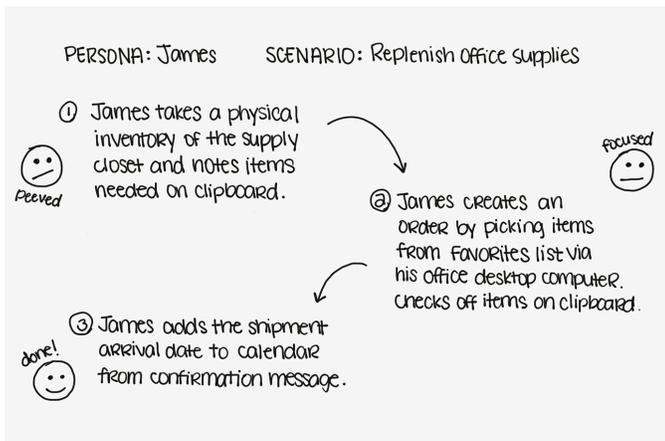
Now, take a fresh sheet of paper and dive back into another round of Crazy Eights. Use your reflections as fuel to generate a new set of eight ideas, aiming to explore the most promising avenues or challenge your initial assumptions. Repeating the exercise independently can help you uncover deeper and more creative solutions.

Visualize and Connect Ideas

Draw a Storyboard

Create a storyboard to visualize how a user might interact with your proposed solution. What are their motivations? What steps do they take? What are their key emotions at each stage?

- Storyboards depict a sequence of events from the user's perspective, showing how they interact with your solution to achieve a specific goal.
- Each panel of your storyboard should show the user in a specific situation, highlighting their motivations, actions, and emotions.
- By visualizing the user's journey, you can spot potential usability problems or areas of friction before investing significant development time.
- Storyboards provide a shared visual language that helps everyone on the team (and even stakeholders) understand the proposed solution and contribute to its refinement.

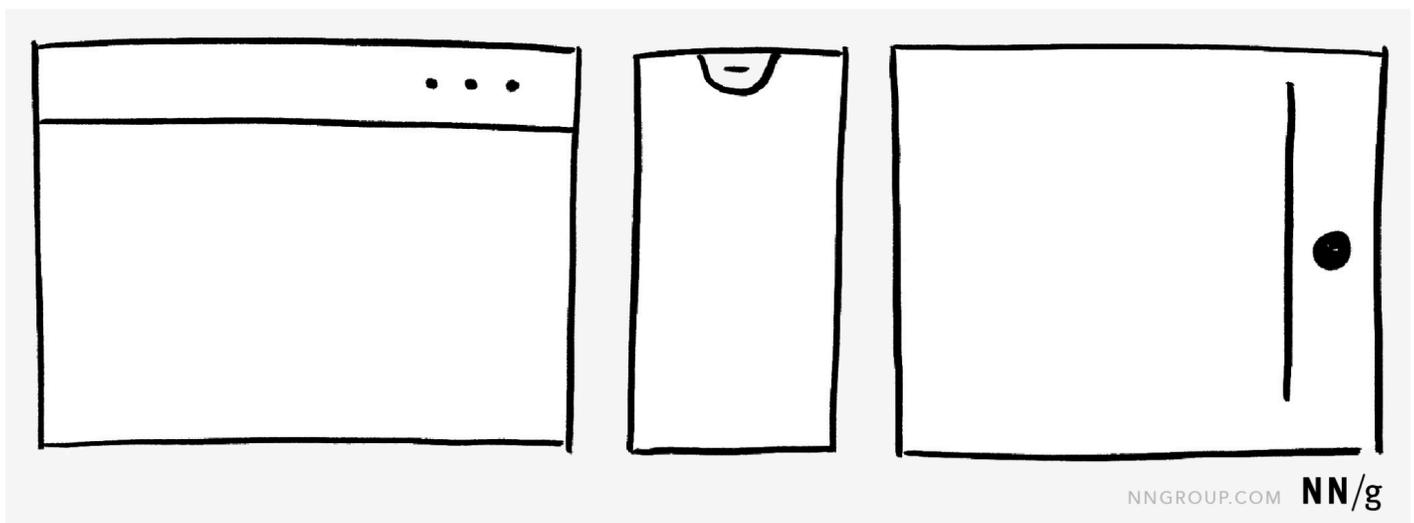


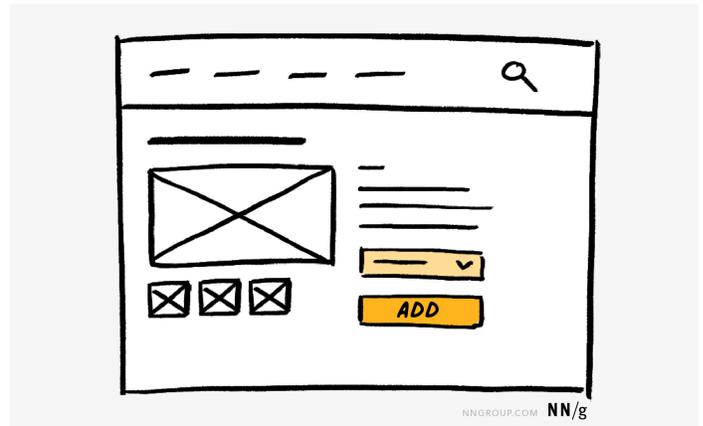
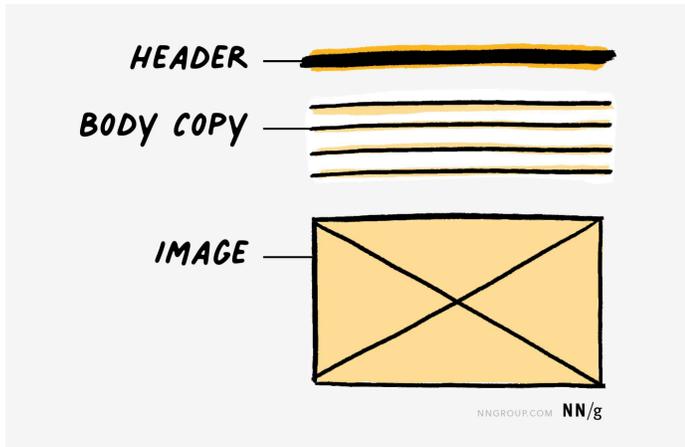
Credit: [Nng](#)

Sketch Out Wireframes

Don't let the feeling that you're not an artist stop you from sketching during the Exploration phase. The goal here isn't to create beautiful illustrations, but to **quickly visualize and communicate ideas**. Think of sketching as a fast and efficient way to get concepts out of your head and into a tangible form.

- If you can draw a square, a circle, and a line, you have all the skills you need to sketch wireframes and ideas. Don't worry about perfection.
- Even rough sketches can be powerful tools for communication and collaboration, helping your team understand and build upon each other's ideas.
- Rapid sketching allows you to explore many different ideas quickly without getting bogged down in details. It's about generating a high volume of visual concepts.





Credit: [NNG](#)

i Tip: Retry using various methods and mindsets:

- Outside-In: Mindset and exploration
- Adjacent: Mindset and exploration

🔄 Iterative Pathways:

- If the generated ideas don't seem to address the core user needs, **return to the Users stage** for a deeper re-evaluation or conduct further focused generative research to inspire new directions.
- If you're struggling to align ideas with desired outcomes, **return to the Questioning stage** to ensure the goals are clear and use them as a filter for your explorations.

SOLUTION DEFINITION

This stage narrows the possibilities generated in Exploration (and informed by User understanding) to a focused set of well-defined solution concepts ready for the Testing & Validation phase. Choose your convergence activities based on the range and definition of your explorations in consideration.

EXPLORATION OUTPUT: LOTS OF RAW IDEAS

- **Kano Model:** Plot each of your possible explorations in this 2x2 matrix against the degree of implementation (x-axis) and customer reaction (y-axis). This helps differentiate possible delighters from must-haves.

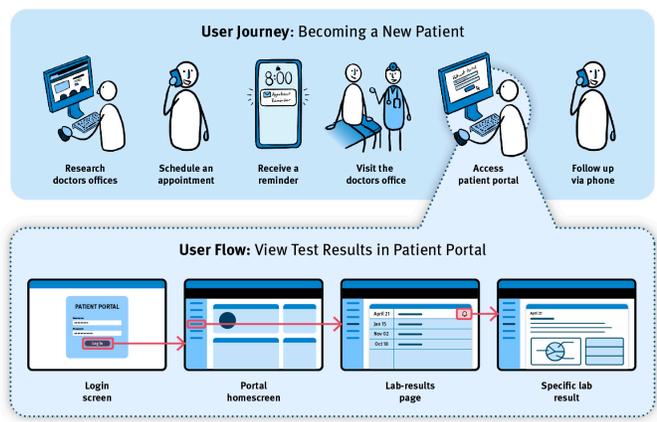
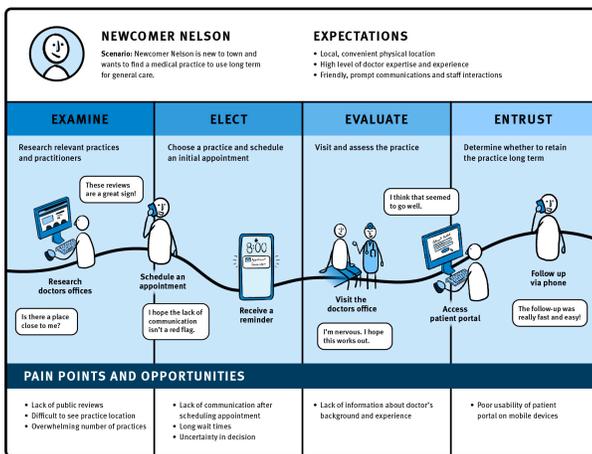


Credit: [Product School](#)

- **Feasibility, Viability, Desirability (FVD) Framework:** Evaluate each concept
 - Can we realistically build and implement this? (Technical, resource, time constraints)
 - Does this make sense from a business perspective? (Revenue, cost, sustainability)
 - Do our users truly want and need this? (Addresses their pain points, aligns with their motivations) Teams can score each concept against these criteria and then discuss which ones best meet all three.
- **Weighted Scoring:** Define a set of key criteria (e.g., user alignment, business value, technical feasibility, innovation potential) and assign a weight to each based on its importance. Team members then score each solution concept against each criterion. The weighted scores are totaled to provide a comparative ranking.
- **Dot Voting:** Present the defined solution concepts visually (on sticky notes or a whiteboard). Each team member gets a limited number of "votes" (dots) to place on the ideas they believe are most promising based on pre-defined criteria (e.g., user need alignment, feasibility, potential impact, business goals). The ideas with the most votes move forward.

EXPLORATION OUTPUT: PROMISING INITIAL CONCEPTS

- **"How Might We" (HMW) Revisited:** Take the most promising solution areas and reframe them as HMW questions. This can spark further, more focused ideation to refine the concepts. For example, if a top idea is "a mobile app," HMW questions could be "How might we make the onboarding process seamless?" or "How might we personalize the app experience?"
- **Sketching and Low-Fidelity Prototyping:** Encourage team members to quickly sketch out interfaces, workflows, or physical forms of the solution concepts. This visual representation can help clarify ideas, identify potential issues, and facilitate discussion. Low-fidelity prototypes (paper, cardboard) can also be used to simulate basic interactions.
- **"Crazy Eights" (Focused):** If a particular solution area seems promising but needs more specific features, do a focused "Crazy Eights" session around that concept. Each person rapidly sketches eight variations or features within that solution space in a short time.
- **Map Your User's Journey for Deeper Understanding:** Once you have potential solutions, create a "future state" user journey map to envision how the user's experience will change with your solution. This helps ensure a holistic and positive user experience across all touchpoints. A prompt could be: "Imagine your proposed solution is implemented. Map out the ideal future journey of your user. How will their actions, thoughts, and feelings evolve? What new touchpoints will exist?"
 - Unlike user flows that focus on task completion, journey maps illustrate the entire user experience, including their initial motivations, thoughts, feelings, and the broader context surrounding their interactions.
 - A key element of a journey map is tracking the user's emotional state throughout their experience, highlighting moments of frustration, delight, or neutrality.
 - By visualizing the journey, you can pinpoint specific moments where users struggle or where there are opportunities to improve their experience.
 - Journey maps help you identify all the different ways a user interacts with your product or service (or the problem space), across different channels.
 - Creating a user journey map collaboratively helps the entire team develop a shared understanding of the user's experience and prioritize areas for improvement or innovation.



EXPLORATION OUTPUT: MATURE POTENTIAL SOLUTIONS

- **Consensus Building:** Facilitate a discussion where the team explores the pros and cons of the top-ranked solutions. Aim for a shared understanding and agreement on which concept(s) to move forward with. Techniques like "fist to five" can gauge team alignment.
- **Trade-off Analysis:** If multiple promising solutions exist, conduct a structured discussion to weigh the trade-offs between them. What are the strengths and weaknesses of each? What are we willing to compromise on?
- **“Now, Wow, How”:** Categorize each solution.

Now	Wow	How
Ideas that are feasible to implement immediately.	Innovative and exciting ideas that could differentiate you.	Ideas that are more aspirational and require further development. This helps create a balanced portfolio of potential solutions

Tips for Facilitating Convergence:

- **Clearly Define Criteria:** Ensure the team agrees on the criteria for evaluating and prioritizing solutions upfront.
- **Time-Box Activities:** Keep the convergence activities focused and efficient by setting time limits.
- **Encourage Constructive Discussion:** Foster an environment where team members can openly share their perspectives and challenge ideas respectfully.
- **Visualize Information:** Use whiteboards, diagrams, and sticky notes to make the evaluation process transparent and collaborative.
- **Document Decisions:** Clearly record the rationale behind the chosen solution(s) for future reference.

Iterative Pathways:

- If the defined solutions don't clearly address the user needs, **revisit the Users stage** to ensure alignment.
- If the solutions lack innovation or don't feel significantly different from existing offerings, **return to the Exploration stage** for further brainstorming.
- If you struggle to evaluate the potential impact of the solutions against the desired outcomes, **return to the Questioning stage** to clarify the success metrics.

TESTING + VALIDATION

Gather feedback from real users on developed solutions and measure their impact against defined metrics to learn and iterate. This stage validates the assumptions made in earlier stages and informs future iterations of any stage.

- Plan Testing Methods: Determine the most appropriate research methodologies to gather relevant feedback.
- Conduct User Testing: Observe users interacting with prototypes or existing products.
- Gather Qualitative Feedback: Conduct interviews and gather open-ended responses to understand user experiences.
- Collect Quantitative Data: Utilize surveys, A/B testing, and analytics to measure user behavior and preferences.
- Analyze Findings: Identify key insights, usability issues, and areas for improvement.

Observational Testing: Watching Users Interact

Usability Testing with Think-Aloud	Observe users interacting with your prototype or product while asking them to verbalize their thoughts, feelings, and reasoning as they navigate.
Benefit	Uncovers friction points, areas of confusion, unexpected user behaviors, and provides deeper insights into the user's mental model and decision-making process.
When to Use	From early paper prototypes and wireframes to high-fidelity mockups and even launched products, whenever you want to understand both what users do and why.

Intercept Interviews (Contextual Inquiry)	Briefly engage users in their natural environment as they are performing tasks relevant to your product or problem space. Observe their behavior and ask short, focused questions to understand their context, motivations, and pain points in the moment.
Benefit	Provides rich, contextual understanding of user behavior in real-world scenarios, revealing needs and frustrations that might not surface in a lab setting.
When to Use	Early in the design process to understand user workflows and identify opportunities for intervention, or when observing use of existing products in their natural context.

Feedback Collection: Directly Asking Users for Their Opinions

User Interviews	Conduct one-on-one conversations with users to delve deeply into their experiences, needs, motivations, and opinions related to your solution.
Benefit	Yields rich, qualitative data that can uncover underlying needs, emotional responses, and valuable context that surveys might miss.
When to Use	Throughout the design process, from understanding the problem space to gathering feedback on specific concepts or prototypes.

Surveys & Questionnaires	Distribute a set of structured questions to a larger group of users to gather quantitative and qualitative data on their preferences, satisfaction, and demographics.
Benefit	Allows you to reach a broader audience and collect quantifiable data that can be statistically analyzed to identify trends and validate hypotheses.
When to Use	To gauge overall opinions, validate specific features or concepts with a larger sample, or gather demographic information.

Data-Driven Testing: Analyzing User Behavior Through Metrics

A/B Testing	Present two or more variations of a specific design element (e.g., button color, headline) to different segments of your user base and track which version performs better against a defined metric (e.g., click-through rate, conversion rate).
Benefit	Provides quantitative evidence for design decisions, allowing you to optimize for specific user behaviors and business goals based on real-world data.
When to Use	With live products or high-fidelity prototypes where you can track user interactions and measure specific outcomes.

Analytics Review	Analyze data collected on how users interact with your live product (e.g., website page views, feature usage, drop-off rates) to identify patterns, areas of friction, and opportunities for improvement.
Benefit	Reveals actual user behavior at scale, highlighting areas where users struggle, which features are most popular, and where optimizations might have the biggest impact.
When to Use	Primarily with launched products or services to understand real-world usage and identify areas for iteration.

 Visit www.thequestmodel.com for additional resources

- User Research resources

Iterative Pathways:

- If testing reveals fundamental misunderstandings of user needs, **return to Users stage** for more in-depth generative research.
- If testing shows that the solutions are not meeting the desired outcomes, **return to the Questions stage** to re-evaluate the goals or **go back to the Solution Definition or even Exploration stages** to pivot the solution.
- If testing uncovers significant usability issues, **iterate on the Solution** based on the feedback and conduct further targeted testing.

BONUS: Narration of the QUEST

Think of the entire QUEST journey you've undertaken as the careful construction of a powerful story. The initial Questions you posed illuminate the central tension – the unmet needs and frustrations of your users, explored deeply in the Users & Assumptions phase. The diverse avenues you ventured down during Exploration represent potential plotlines, while Solution Definition marks the emergence of your protagonist: the product or service designed to resolve that tension. Finally, Testing & Validation is akin to sharing your narrative with its intended audience, gauging its resonance and impact.

Craft the User's Transformation Narrative:

The Ordinary World (User's Initial State):

- Focusing on your "Users & Assumptions," describe the everyday life, routines, and status quo of your main user before they encounter the problem.
- What does a typical day look like for this user? What are their hopes, dreams, or everyday challenges? What are their current tools or workarounds?
- Make them the central character in this initial scenario.

The Inciting Incident (The Problem Emerges):

- Highlight the core challenge identified in your "Questioning" stage as the pivotal event that disrupts the user's ordinary world and creates a desire for something better.
- This is the catalyst that necessitates a solution.

The Transformation (The User's Journey):

- Based on your "Solution Definition," envision the future state of your user's life or work with your solution integrated.
- How has their daily routine changed? What frustrations have been alleviated? What new abilities or skills have they gained? What new perspective do they have? What new opportunities or satisfactions do they experience?
- Clearly articulate how the key features and benefits of your solution directly address the pain points and fulfill the needs identified in the "Users & Assumptions" stage. Emphasize how your solution empowers the user.
- Keep the user as the central character, now transformed and enabled by your solution.

The New Normal (The Resolution):

- Describe the user's "new normal" after successfully integrating your solution.
- What are the lasting positive outcomes and the fulfillment of their initial needs and desires? How has their life improved in the long term? What is their new status quo?
- Provide a sense of closure to the user's journey.

Glossary of Terms

Analogous Inspiration:

Seeking ideas and solutions from different, but related, fields or contexts to spark new thinking.

Assumptions:

Beliefs or suppositions held about users, their needs, or the problem space that need to be validated through research.

Brainstorming:

A group creativity technique designed to generate a large number of ideas in a non-judgmental environment.

Desired Outcomes:

The measurable goals and benefits expected for both users and the business if the innovation is successful in addressing the defined problem.

Empathy Building:

The process of understanding and sharing the feelings of others, particularly users, to gain deeper insights into their experiences and perspectives.

Feasibility:

The practicality and viability of a proposed solution, considering factors such as technical limitations, resource availability, and business viability.

Heuristic Evaluation:

A usability inspection method where experts evaluate a user interface against a set of established usability principles (heuristics).

Human-Centered Innovation:

An innovation process that prioritizes understanding the needs, behaviors, motivations, and contexts of the people (users) for whom the innovation is being developed.

Iteration:

The act of repeating a process or stage with the aim of making improvements based on feedback or new information.

Iterative Process:

A process characterized by repetition of steps or stages, allowing for refinement and improvement based on feedback and new insights gained in each iteration.

Problem Statement:

A clear and concise articulation of the core challenge or opportunity that the innovation process aims to address, often framed from a user-centric perspective.

Qualitative Feedback:

Non-numerical data, such as opinions, experiences, and descriptions, gathered through methods like interviews and open-ended survey questions.

Quantitative Data:

Numerical data that can be measured and analyzed statistically, often collected through surveys, analytics, and A/B testing.

Solution Concept:

A well-defined idea for addressing the identified problem, including a description of its features, functionalities, and how it would work.

Stakeholders:

Individuals or groups who have an interest in or are affected by the innovation process and its outcomes.

User Persona:

A semi-fictional representation of a typical user based on research and data, used to humanize the target audience and guide design decisions.

User Testing:

A research method where representative users interact with a prototype or existing product while researchers observe their behavior and gather feedback.

User Understanding:

A deep comprehension of the target users, including their needs, pain points, goals, behaviors, and the context in which they operate.

Validation:

The process of confirming the accuracy of assumptions and the effectiveness of proposed solutions through research and user feedback.