AI-AUGMENTED TEAM DESIGN SPRINT

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Framework Overview

6 Days • Strategic AI Integration • Design Sprint Methodology

60%
Human Stakeholders
Product, Design, Engineering, Business)

30%
Design Leadership
Facilitation, Strategic Decisions)

10%
AIAssistant
Research, Analysis, Intelligence)

DAY 1

Foundation & Intelligence Gathering

- Stakeholder Interview 45 min
- User Research Synthesis 15 min
- Problem Prioritization & HMW 30 min
- Journey Mapping & Sprint Focus 60 min)

AI Contribution

DAY 2

Ideation & Strategic Pivoting

- Competitive Review 20 min
- Crazy 8s 20 min
- Concept Refinement 30 min)
- Solution Evaluation 90 min
- Strategic Decision 90 min

AI Contribution
Feature Inspiration Research

DAY 3

Architecture & Flow Design

- User Flow Mapping 30 min
- Ethical Design Integration 20 min
- Uncertainty Patterns 30 min
- Risk Analysis 60 min)
- Success Metrics 60 min

AI Contribution
Risk Assessment & Monitoring

Competitive Analysis & Bias Detection

DAY 4

Rapid Prototyping & Testing

- AI Accelerated Prototyping 2 hours)
- Integration Testing 60 min
- Stakeholder Review 90 min
- Testing Protocol Design 60 min

AI Contribution

UI Scaffolding & Content

DAY 5

Validation & Learning

- User Testing 5 hours)
- Learning Integration 90 min
- Optional Additional Testing

AI Contribution

Real-time Insight Synthesis

DAY 6

Launch Strategy & Presentation

- Implementation Roadmap 3 hours)
- Presentation Prep 2 hours)
- Executive Presentation 60 min)

AI Contribution

Timeline Estimation

Day-by-Day Structure

Day 1 Foundation & Intelligence Gathering

Morning: Strategic Alignment 2 hours)

Expert Stakeholder Interview 45 min

Using JJ Smart's Expert Interview Framework:

- What is the product (what it does, who uses it)? What is the
- problem the product is trying to solve? Who is using the product
- currently and who would we like to use it?
- If there were no problems, what would the product look like in 2 years?
- Define business goals, constraints, success metrics

1

User Research Synthesis 15 min

Designer Pre-work: Use AI to analyze existing research data

- Present user research insights to stakeholders
- Present AI-generated systematic categorization: functional, accessibility, privacy, aesthetic, reliability
- Human team validates and adds contextual business insights

2

Problem Prioritization & HMW Generation 30 min

Parallel Process: HMW generation during stakeholder listeningsessions

- Collaborative How Might We statement development
- AI bias detection and blind spot identification
- Output: **Focused problem statement(s) for sprint**

3

Afternoon: Context Mapping 1 hour

User Journey Mapping & Sprint Focus Alignment 60 min

- Quick journey map: Discovery   Learning   Using   End Goal 20 minutes)
- High-level feasibility discussion integrated into journey mapping
- Confirm which part of user journey addresses the problem statement
- Align team on sprint scope and objectives
- Output: **Target journey segment for sprint focus**

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Day 2 Ideation & Strategic Pivoting

Morning: Divergent Thinking 3 hours)

Competitive Inspiration Review 20 min

Team reviews and takes notes on AI-generated competitivefeature analysis. Identify key insights and inspiration for ideation.

AI Enhanced Crazy 8s 20 min

Individual ideation focusing on AI vs. non-AI vs. hybrid approaches. Consider: What humans might not want to do (automation opportunities)

Individual Concept Refinement 30 min

Each person refines one concept adding necessary notestoexplainthe concept and decisions

Solution Evaluation 90 min

Team evaluates concepts and votes on top concepts considering automation potential, data requirements, and cognitive friction

Afternoon: Solution Convergence 1.5 hours)

Strategic Decision Point 90 min

- Final concept selection with documented rationale
- Define AI-human collaboration approach for remainingdays

Day 3 Architecture & Flow Design

Morning: System Design 1.5 hours)

Core User Flow Mapping 30 min

Map essential steps for users to achieve their goal. Noteoverallinputs and outputs at high level. Detailed flow creation with AIprobabilistic decision points.

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Ethical Design Integration 20 min

Systematic bias assessment at each touchpoint. AI discriminationrisk identification. Inclusive design principle integration.

11

Uncertainty Design Patterns 30 min

Confidence score visualization strategies. AI decision-making transparency mechanisms. User trust-building communicationpatterns.

12

Afternoon: Risk & Resilience 2 hours)

Comprehensive Risk Analysis 60 min

AI identifies technical failure modes. Human team assessesbusiness and user experience risks. Mitigation strategy development.

13

Success Metrics & Monitoring Strategy 60 min

AI monitoring and feedback loop design. Success metricsandfailure signal identification.

14

Day 4 Rapid Prototyping & Testing

Morning: Prototype Development 3 hours)

AI Accelerated Prototyping 2 hours)

AI generates UI scaffolding and content. Human team refineswith contextual design decisions. Real-time stakeholder feedback integration.

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Integration Testing 60 min

Testing the coherence and functionality of the AI-humancollaboration within the prototype. Human-AI handoff point validationandedgecase scenario testing.

16

Afternoon: Validation & Iteration 2.5 hours)

Stakeholder Review Session 90 min

Cross-functional feedback integration. AI surfaces overlooked implications. Rapid iteration and refinement. Documentassumptions that need to be validated with users.

17

User Testing Protocol Design 60 min

Testing approach with AI assistance. Hypothesis formationfor validation. Success/failure criteria establishment.

18

Day 5 Validation & Learning

Full Day: Testing & Learning 6.5 hours)

Rapid User Testing 5 hours)

AI-assisted real-time insight synthesis. Human observationand contextual interpretation. Live prototype iteration capability.

19

Learning Integration & Prototype Updates 90 min

Collaborative insight synthesis. Priority refinementsandstrategic pivots. Changes to prototype based on research insights.

20

Day 6 Launch Strategy & Presentation

Full Day: Strategic Planning & Stakeholder Communication 6 hours)

Implementation Roadmap Development 3 hours)

AI timeline estimation with human resource constraints.Phasedrollout strategy with success metrics. Technical and businessfeasibility alignment.

21

Stakeholder Presentation Preparation 2 hours)

Compile research findings and insights. Finalize designsolutionsand rationale. Prepare implementation roadmap presentation.

22

Executive Stakeholder Presentation 60 min

Present research findings, design solutions, and implementation roadmap. Future evolution and AI capability developmentplan.Q&Aand next steps alignment.

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Key AI Prompts for Sprint Success

User Research Analysis Pre-Sprint)

"Analyze this user research data: [INSERT RESEARCH DATA] Extract and categorize user pain points into: 1. Functional needs (core feature requirements) 2. Accessibility needs (inclusive design requirements) 3. Privacy needs (data protection concerns) 4. Aesthetic needs (visual/emotional preferences) 5. Reliability needs (performance and trust expectations) Provide specific examples and priority ranking for each category."

Competitive Analysis Day 1

"Analyze [PRODUCT CATEGORY] competitive landscape for strategic insights: 1. Direct competitors and their key differentiators 2. Technical approaches (AI/non-AI/hybrid) and effectiveness 3. User experience patterns and innovative features 4. Market gaps and opportunities 5. Actionable recommendations for our product strategy"

Bias Detection Day 1

"Evaluate these problem statements for potential biases: [INSERT STATEMENTS] Identify: - Demographic exclusions or assumptions - Cultural/socioeconomic blind spots - Accessibility gaps - Technical barriers for user groups Provide inclusive alternative framings for each issue identified."

Feature Inspiration Research Day 2

"Research solutions addressing: [PROBLEM STATEMENT] Provide: 1. Competitor features solving similar problems 2. AI vs non-AI vs hybrid approach examples 3. User experience patterns worth adapting 4. Implementation complexity estimates 5. Innovation opportunities not yet explored Format as actionable inspiration for ideation."

Risk Assessment Day 3

"Analyze potential risks for this solution: [SOLUTION DESCRIPTION] Identify: 1. Technical failure modes and likelihood 2. User experience friction points 3. Ethical implications and bias risks 4. Business/operational challenges 5. Mitigation strategies for top 3 risks Prioritize by impact and probability."

Framework is informational. Adapt timing and techniques based on team size, complexity, and organizational constraints.