Product Requirements Document (PRD)

1. Introduction

Product Name: framePromptly

Purpose: framePromptly empowers UX practitioners to build flexible, multi-framework AI-driven workflows. Users select from a comprehensive library of UX frameworks (e.g., Design Thinking, Double Diamond, Google Design Sprint, Human-Centered Design, Jobs-to-Be-Done, Lean UX, Agile UX, HEART, Hooked) and associated tools at each stage. AI-generated prompts leverage prior stage outputs as context, ensuring coherent, progressive artifacts, all this to .e able to generate prompts to be used in any other Ai to create the ux tools or use framePromptly ai to generate the prompt to create or use those ux tools.

Scope:

- Support for all major UX frameworks:
- Design Thinking (Empathize, Define, Ideate, Prototype, Test)
- Double Diamond (Discover, Define, Develop, Deliver)
- Google Design Sprint (Understand, Sketch, Decide, Prototype, Validate)
- Human-Centered Design (Hear, Create, Deliver)
- Jobs-to-Be-Done (Job Mapping, Outcomes, Solutions)
- Lean UX (Hypothesize, Experiment, Learn)
- Agile UX (Plan, Design, Build, Test, Iterate)
- HEART (Happiness, Engagement, Adoption, Retention, Task Success)
- Hooked Model (Trigger, Action, Variable Reward, Investment)
- Library of UX tools mapped to each framework stage
- Prompt generation engine for dynamic template population
- Contextual chaining: artifact persistence and summarization
- Visual Workflow Builder with drag-and-drop stage configuration
- Prompt & Output Editor with inline AI response
- Collaboration, versioning, analytics, and localization

2. Stakeholders

- **Product Manager** – Defines roadmap, prioritizes frameworks
- **UX Strategist** – Validates framework mappings and tool lists
- **UX/UI Designer** – Designs interface and interaction patterns
- **AI/ML Engineer** – Develops prompt templates, context summarization
- **Frontend Engineer** – Implements Workflow Builder, Editor
- **Backend Engineer** – Builds context store, API services
- **QA Engineer** – Tests end-to-end workflows and edge cases

3. User Personas

1. **UX Designer:** Needs streamlined AI-driven workflows across multiple methodologies.
2. **Product Owner:** Reviews framework-specific artifacts and shares insights.
3. **UX Researcher:** Extracts user insights and metrics from empathize and test stages.
4. **Agile Team Member:** Integrates UX prompts into sprint cycles.

4. Framework Workflows & Stages

For **each** chosen framework, the system:

1. Allows user to generate prompts for **all stages** in sequence or **one specific stage** based on needs.
2. Presents stages in sequence or custom order.
3. Lists mapped UX tools per stage.
4. Generates AI prompt using:
5. Framework name & stage
6. Selected tool parameters
7. Summarized prior outputs
8. Executes AI call and captures artifact
9. Stores & summarizes artifact for next stage context
10. Displays output with edit, comment, and export options
11. You can iterate with the outcome like an ai convesational chat to use or elaborate the ux tool

4.1 Design Thinking

- **Stages & Tools:**
- Empathize: User Interviews, Surveys, Observations
- Define: Affinity Mapping, Personas, Journey Maps
- Ideate: Brainstorming, SCAMPER, How Might We
- Prototype: Sketching, Wireframes, Mockups
- Test: Usability Tests, A/B Tests, Analytics Review

4.2 Double Diamond

- **Stages & Tools:**
- Discover: Stakeholder Interviews, Contextual Inquiry
- Define: Synthesis Workshops, Problem Framing
- Develop: Concept Sketches, Prototyping
- Deliver: Pilot Testing, Implementation Plans

4.3 Google Design Sprint

- **Stages & Tools:**
- Understand: Expert Interviews, User Journeys
- Sketch: Crazy 8s, Solution Sketch
- Decide: Decision Matrix, Storyboarding
- Prototype: High-Fidelity Mockup
- Validate: Customer Testing, Feedback Analysis

4.4 Human-Centered Design

- **Stages & Tools:**
- Hear: Empathy Map, Contextual Interviews
- Create: Ideation Workshops, Prototyping
- Deliver: Pilot Launch, Impact Assessment

4.5 Jobs-to-Be-Done

- **Stages & Tools:**
- Job Mapping: Job Steps, Job Statements
- Outcomes: Desired Outcome Statements
- Solutions: Concept Generation, Prioritization

4.6 Lean UX

- **Stages & Tools:**
- Hypothesize: Hypothesis Canvas, Assumption Mapping
- Experiment: Design Experiments, MVP Prototypes
- Learn: Metrics Dashboard, Retrospective

4.7 Agile UX

- **Stages & Tools:**
- Plan: User Story Mapping, Sprint Planning
- Design: Collaborative Sketching, Design Studios
- Build: Developer Handoff, Iterative Prototyping
- Test: Sprint Review Testing, Bug Triage
- Iterate: Backlog Refinement, Continuous Improvement

4.8 HEART Framework

- **Metrics & Tools:**
- Happiness: Surveys, NPS Prompts
- Engagement: Interaction Logs, Session Analysis
- Adoption: Onboarding Flow Analysis
- Retention: Churn Reports, Cohort Analysis
- Task Success: Task Completion Tests

4.9 Hooked Model

- **Stages & Tools:**
- Trigger: Notification Strategy, Contextual Triggers
- Action: Microcopy Generation, UX Gesture Design
- Variable Reward: Reward System Prototyping
- Investment: Feature Roadmap Planning

5. Functional Requirements

1. **Workflow Builder:** Drag-and-drop, reorder, duplicate, or skip stages
2. **Framework Library:** Preloaded frameworks and customizable templates
3. **Tool Catalog:** Filterable list of UX tools mapped by stage
4. **Prompt Engineering Methods:** Selection of prompting strategies (e.g., zero-shot, few-shot, chain-of-thought, instruction tuning) that shape AI output
5. **Prompt Editor:**
6. Parameter fields, rich-text support, inline preview, and selection of prompt engineering method.
7. AI-assisted variable detection, field generation, and template management.
8. **Standalone Prompt Builder:** Create and test individual prompts outside of workflows.

9. **Stage-Bound Prompt Builder:** Bind prompts directly within a stage in a project or workflow, auto-linking context and variables.
10. **AI Recommendations Engine:**
11. Suggests next-best stages, tools, or prompt templates based on common patterns, user history, and prior stage selections.
12. Provides rationale and confidence scores for recommendations.
13. **Onboarding Context:** Initially recommends popular defaults per framework.
14. **Project Management:** Create, view, edit, and organize projects.
15. **Metadata:** Date created, date modified, total prompts generated, UX framework used.
16. **Ownership & Collaboration:** Assign project owner, add editors and viewers.
17. **Interaction:** Open project dashboard to review stage artifacts, templates, and collaborators.
18. **AI Engine API:** Context concatenation, token summarization, rate limits, and method-specific parameters
19. **Context Store:** Artifact versioning, summarization service, and storage of chosen prompt engineering metadata
20. **Collaboration:** Shared workflows, comments, permissions, project-level access control
21. **Export:** PDF, CSV, Confluence, or Slack integration

6. Configuration & Settings

- **AI Integration Settings:**

- **System AI:** Default integrated AI for prompt generation (e.g., OpenAI)

- **Custom AI:** Option for users to connect their own AI providers using API keys
    - **API Key Management:** Add, edit, and remove keys
    - **Provider Config:** Provider name, endpoint URL, headers/authentication
    - **Default Key Selection:** Set system or custom AI per workspace or project
- **Model Configuration:** Customize parameters per AI provider or per project:
    - **Temperature:** Controls randomness of outputs
    - **Max Tokens:** Limits response length
    - **Top-p (Nucleus Sampling):** Limits token selection pool
    - **Frequency Penalty:** Adjust repetition
    - **Presence Penalty:** Control topic introduction

- **Prompt Engineering Defaults:** Set default prompting method and parameters

- **AI Tool Instruction Library:**

- Predefined instruction sets mapped to UX AI and collaboration tools. Each entry includes a **description** of tool capabilities and an array of **best practices** for prompt crafting.