Product Requirements Document (PRD): SkillSprint

Overview

Product Name: SkillSprint

Tagline: AI – Personalized Sprint Planner

Owner: Utkarsh Akhouri

Version: 1.0

Date: July 22, 2025

Problem Statement

Many self-learners, bootcamp graduates, and remote professionals struggle with unstructured, overwhelming learning experiences. Online content is abundant, but learners often lack direction, motivation and feedback. Existing tools are either too generic (to-do applications) or too rigid (MOOCs). There’s a gap for an adaptive, AI-enhanced planner that helps learn any skill effectively in focused timeframes.

Goal

Build a full stack application that lets users create and manage personalized 7/14/30 – day learning sprints. The system uses AI to generate customized daily curriculums; tracks progress with gamified feedback loops and adapts to user pace and preferences over time.

Target Users

* **Self – Learners** – preparing for certifications or career changes
* **Bootcamp grads** – seeking structured interview preparation
* **Remote workers** – trying to skill efficiently
* **Students** – focused on short term academic goals

Personas

* **🎓 Alex (24, Bootcamp Grad)**

Wants a clear 14-day plan to master JavaScript for frontend interviews.

* **🧑‍💻 Priya (31, Remote Developer)**

Struggles to stay motivated while learning DevOps part-time.

* **📚 Liam (19, Student)**

Needs accountability and short sprints to study Python for an exam.

Core Features (MVP)

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| --- | --- |
| **Feature** | **Description** |
| User Auth | Signup/login using Supabase Auth |
| Sprint Generator | AI-generated curriculum based on goal + timeframe |
| Daily Dashboard | Today’s task, calendar, progress tracker |
| Task Checklist | Mark daily items complete, track streaks |
| Check-in Modal | Capture reflections and mood, adjust learning |
| XP & Streaks | Earn points and maintain streaks to gamify consistency |

Non – MVP (Future Phases)

* Public Sprint Challenges (with leaderboard)
* Browser Extension (track YouTube/Coursera progress)
* Community Templates (remixable sprint goals)
* Adaptive AI feedback based on quiz or reflection
* Mobile App (React Native or Expo)

Functional Requirements

* [FR1] Users can sign up, log in, and manage sessions securely
* [FR2] Users can enter a learning goal + timeframe and receive an AI-generated sprint
* [FR3] Sprint content is saved to Supabase and linked to the user
* [FR4] Tasks are presented daily and trackable
* [FR5] Users earn XP for completing tasks
* [FR6] Daily check-ins modify future sprint difficulty or pacing

Non – Functional Requirements

* Should support 1000+ users with concurrent usage
* Tasks should load in <500ms on broadband
* Use Supabase RLS to protect user data
* Must be deployed with CI/CD via GitHub Actions

Success Metrics (MVP)

* 80% of users complete at least one 7-day sprint
* Daily active users / Weekly active users’ ratio (DAU/WAU) > 0.5
  + 70% of users rate their sprint usefulness ≥ 4/5
* 50%+ users complete at least 70% of their tasks

Tech Stack

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| --- | --- |
| Layer | Tool |
| Frontend | Next.js + TypeScript + TailwindCSS |
| Backend | API Routes (or Express), Node.js |
| Auth & DB | Supabase (PostgreSQL) |
| AI Layer | OpenAI GPT-4o (via server route) |
| CI/CD | GitHub Actions + Railway or Vercel |
| Testing | Jest (unit) + Playwright (e2e) |

Timeline

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| --- | --- |
| Day | Task |
| Day 1 | Project setup: Supabase, Auth, DB schema |
| Day 2 | Create Sprint UI + API integration |
| Day 3 | Save generated sprints to DB |
| Day 4 | Daily Dashboard UI (task view + progress) |
| Day 5 | XP and streak logic |
| Day 6 | Check-in modal + LLM feedback |
| Day 7 | Polish, test, deploy |

Risks and Mitigations

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| --- | --- |
| Risk | Mitigation |
| LLM output too generic | Tune prompts + allow user editing |
| Users drop off mid-sprint | Add motivational nudges, streaks |
| API cost from OpenAI | Use caching or Claude API for fallback |

Appendix

* Prompt examples for AI generation
* Sprint schema example
* Reflection entry sample
* Wireframe links (if available)

This PRD will be updated as features evolve. Please align engineering tasks with the feature priorities listed here.

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