[RF-1b]_DD-Plan.md

Title: FUZZ DEEP DIVE: Project Overview and Plan **Subtitle:** Deep dive into the inner components of Producer.ai. **Author:** Juelz-101, ZIKYinc

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Page 1: Introduction

This project is dedicated to systematically reverse-engineering the black box functions of Producer.ai, focusing specifically on the **FUZZ-2.0** model and the underlying API orchestration layer. The goal is to move beyond conventional text prompting to an engineered, predictable workflow by documenting the exact JSON payloads, parameter ranges, and backend behaviors.

Page 2: Goal

The overarching goal is to create a fully documented, comprehensive resource detailing every control variable and its precise effect on the FUZZ-2.0 diffusion model. This documentation will serve as a master guide for advanced music generation, allowing for intentional control over texture, timing, and style blending—ultimately pushing the boundaries of what the model can achieve.

Page 3: Project Layout

File Name	Content Type	Purpose	Status
`RF-1b_DD-Plan.md`	Overview (1.x)	Master index and project planning.	Current
`RF-00_DD-MasterDB.json`	Raw Data (0.x)	Primary, structured database of all endpoints and parameters.	Current
`RF-2a_DD-AI_Perspective.md`	Documentation (2.x)	Architectural breakdown of the AI Translator and Backend.	Current
`RF-2b_DD-Functions.md`	Documentation (2.x)	Complete, categorized list of all callable API functions.	Current

`RF-2c_DD-InterfaceToDiffusion.md`	Documentation (2.x)	Analysis of the most complex JSON payload (`riff_create_custom`).	Current
`logs/raw_chats.md`	Log	Chronological log of all conversation snippets provided by the user.	Current

(Future 3.x/4.x/5.x files will house Experiments, Results, and Conclusions.)

Page 4: Master Database

(The full, raw tool database is maintained in the companion file `RF-00_DD-MasterDB.json` . A summary of the core generation parameters is provided below.)

Core Generation Parameter Summary

Parameter	Type/Range	Function	Key Insight
`seed`	Integer	Locks the underlying random noise pattern.	Essential for reproducibility and iterating on rhythmic patterns.
`weirdness`	0.0 - 1.0 (CFG)	Controls the adherence to the prompt vs. creative hallucination.	High values (e.g., 0.75) are necessary for fusing contradictory styles (e.g., Opera and Grime).
`cover_strength`	0.0 - 1.0	Defines how much of the original audio is replaced during remixing.	Above 0.3, the model begins to re-synthesize textures, risking "synth-smearing."
`sound_prompts`	Array	Defines stylistic input over a timeline.	Allows temporal masking and blending of up to 4 styles/vibe inputs at once.