# Level Design Document (LDD) for *Healing Grounds*

#### 1. Document Overview

• Game Title: Healing Grounds

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## 2. Level Design Goals

- **Environmental Restoration**: Every level reflects a part of the game world in need of restoration, starting in a polluted or neglected state and gradually transformed through player actions.
- **Player Engagement**: Levels are designed to reward players with visual and gameplay feedback as they clean, repair, and restore different areas.
- **Education and Awareness**: Each level introduces real-world environmental themes, such as deforestation, pollution, or habitat loss, and encourages players to reflect on these issues.
- **Exploration and Discovery**: Levels include secrets, interactive objects, and areas that encourage players to explore and learn about the ecosystem and its inhabitants.

#### 3. Level Summaries

Here's an outline for level. Each summary provides an overview of the environment, objectives, challenges, and unique features.

#### Level 1: Deforested Hillside

• **Environment**: A once-lush hillside in the Carpathian Mountains, now stripped of most trees due to illegal logging.

#### • Objectives:

- o Plant trees along the hillside and prevent soil erosion by installing barriers.
- Dismantle and remove logging equipment left behind.
- Install signage to educate on deforestation impacts.

#### Challenges:

- Steep terrain and rocky paths make tree planting difficult.
- o Limited saplings to plant, requiring strategic placement for optimal growth.

#### Unique Features:

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- o As the trees begin to grow, animals start returning to the area (e.g., deer, rabbits).
- Players receive educational prompts about the importance of biodiversity and reforestation.

## 4. Core Gameplay Mechanics for Levels

Each level incorporates the following core mechanics:

- Cleaning and Collecting: Players collect litter, recycle items, and remove harmful materials.
- Planting and Restoration: Tree planting, soil restoration, and creating habitats for wildlife.
- Repair and Rebuild: Players repair infrastructure, rebuild ecosystems, and create educational signage.
- "Green Thumbs" Likes System: Players can like each other's efforts, encouraging teamwork and collaboration.

# 5. Visual Style and Atmosphere

- **Visual Transformation**: Each level starts in a bleak, deteriorated state and progressively becomes more colorful, vibrant, and full of life as players complete tasks.
- **Sound Design**: Background sounds evolve from quiet, eerie, or distressed (like buzzing machinery, water dripping) to sounds of nature (birdsong, flowing water) as the environment heals.
- **Ambient Cues**: Fog, dark clouds, and muted colors indicate polluted or damaged areas, while sunlight and warmer colors represent restored regions.

#### 6. Points of Interest and Interactive Elements

Each level contains unique points of interest and interactable objects that help players engage with the environment:

- **Informational Signs**: Interactive signs explaining the level's environmental issues, such as water pollution or deforestation.
- **Tool Stations**: Locations where players can collect special tools (e.g., trash grabbers, shovels) needed for specific tasks.
- **Wildlife Sightings**: As restoration progresses, wildlife begins to return, acting as a visual reward and sign of success.

# 7. Player Progression and Rewards

- **Visual Feedback**: As tasks are completed, the world visibly heals—plants grow, water clears, and animals return.
- "Green Thumbs" System: Players gain and give likes to others for completing tasks and achieving restoration milestones.

• **Level-Based Achievements**: Special achievements for specific actions, such as "River Guardian" for restoring the river's flow or "Eco Architect" for fully restoring a park.

## 8. Narrative Integration

Each level includes narrative cues about environmental challenges and the importance of sustainability:

- **Guiding Narration**: Light narration or text prompts explain the current state of the environment, why it is damaged, and how restoration helps.
- Character Dialogue: NPCs or in-game messages provide context for each area, giving it a personal connection to the broader game world.

### 9. Technical Requirements

- **Performance Considerations**: Low-poly or optimized assets for large, open areas; dynamic lighting that changes based on the environmental state.
- Checkpoint System: Autosave checkpoints at regular intervals to save progress in larger levels.
- **Dynamic Weather**: Rain, fog, and sunlight change based on the level's condition, adding realism and aiding in storytelling.

## 10. Appendix (Optional)

- Reference Images: Concept art or reference images for the polluted and restored states of each level.
- **Level Layouts**: Sketches or wireframes of level layouts to give a spatial sense of where objectives, points of interest, and paths are located.