Rune Portal Teleportation System

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World Building

The PEN (Bureau of Paranormal Investigation)

- Organization in charge of keeping the peace between the Mundane and the hidden existences of the Supernatural

Portals

- Magic transport system used by the PEN
- Facilitates travel from the main HQ to various locations of the city

World Building

Runes
- Symbol-based language of the Etheral used for magic

Itineris Threads
- Supernatural frequencies that exist throughout the fabric of the in-world universe
- Used as the pathway connection lines for portals

Doorkeeper Stones
- Natural in-world resource used to power portals via amulets worn by PEN Agents

Project Background

Design and implement the engineering plans for the Rune Portal Teleportation System of the PEN for travel of organization members throughout the city

- Physical planning and construction of the Portal Sites
  - Portal Hubs in the main HQ
  - Portal locations in various parts of the city

- "Rune Coding", arrangement and integration of Runes for:
  - Linking portals to specific locations
  - "Ward Cybersecurity", who does or does not have access to portals

Objectives, Specifications, and Constraints

Objective: Create access to portals in order to transport human life discretely and relatively instantaneously.

Specifications: Must be privatized and protected from unauthorized usage.

Constraints: Must be accessible to only those authorized, safety measures must be taken for both the human in transport and the natural environment of the hub, money restraints

Approach and Obstacles

Approach:

- **Destination** would be set via **frequency waves.**
  - Each city hub operates at a particular wave frequency. The user will be able to set their destination frequency.

- **Transport** moves at the **speed of light**.
  - Because the portals are functional via magnetism, the user is moving at the speed of an electromagnetic wave.

- **Privatization** by verification
  - Authorized users will be given an amulet containing a natural, powerful gemstone which is able to harness energy and power the portal system.

- **Safety**
  - The gemstone also absorbs the immense energy created by the transportation, protecting the user and containing power for its next usage.

Obstacles:
Setting destination, time considerations, safety constraints, privatization.

Rune Coding

Symbols need to be organized in a certain arrangement for the desired effect

Specific arrangements used for:

- Linking Locations / Matching symbols on portals harnesses the frequency of Itineris Threads

- Privatization / Ensure that only PEN Agents have access to the portals

Amulets - Power Source and Member Privatization

Portal Power Source = Doorkeeper Stones

- Fitted to the amulets of PEN Agents
- Triggers the magnetic pull between the Runes of the current location and the set destination

Member Privatization

- Amulet issued to each agent designates their department in the PEN
- Portals won't activate unless triggered by PEN member access

Rehabilitation

Research

Acquisitions

Termination

Portal Access

CLOSED PORTAL

DESTINATION WAVE FREQUENCY

DIAL

AMULET SCANNER

OPEN PORTAL

AMULET SCAN SUCCESS
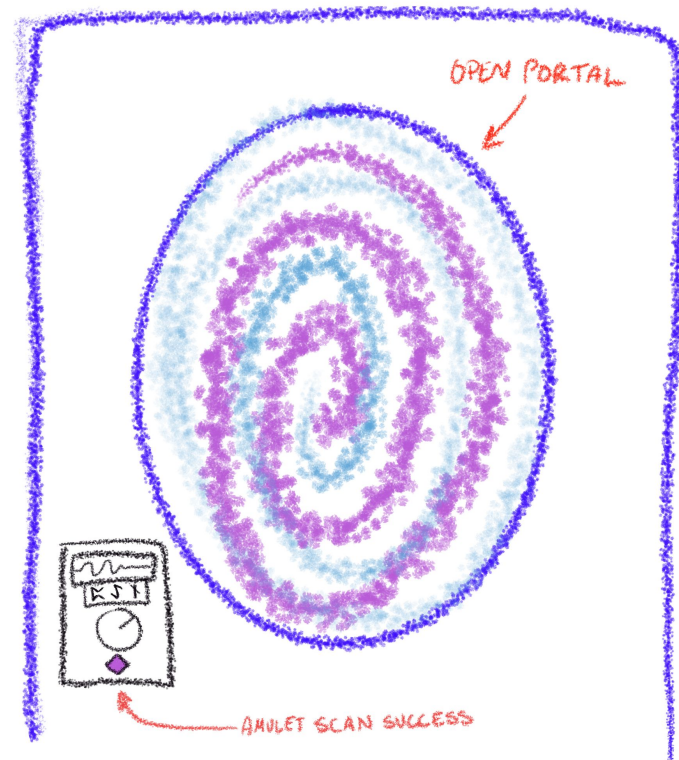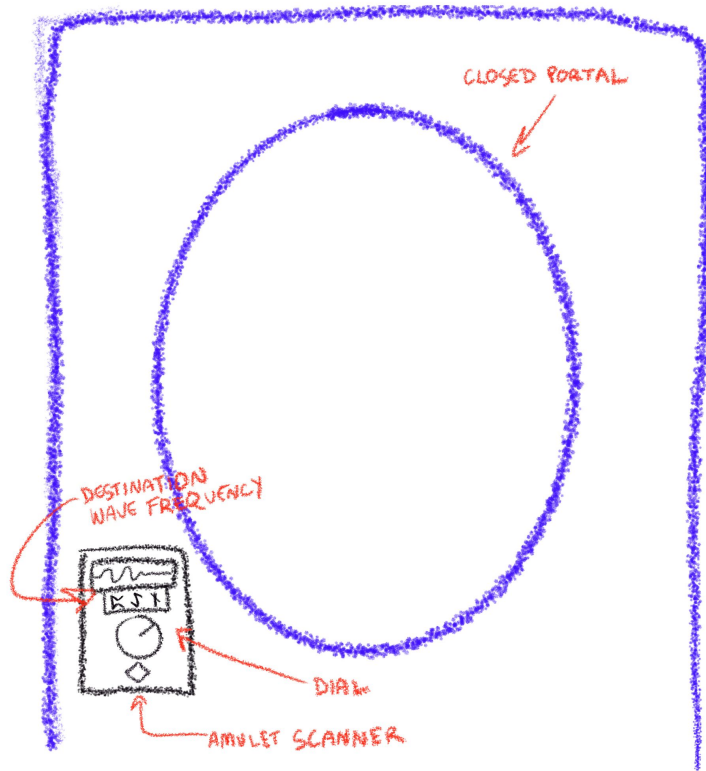
Hub Layout
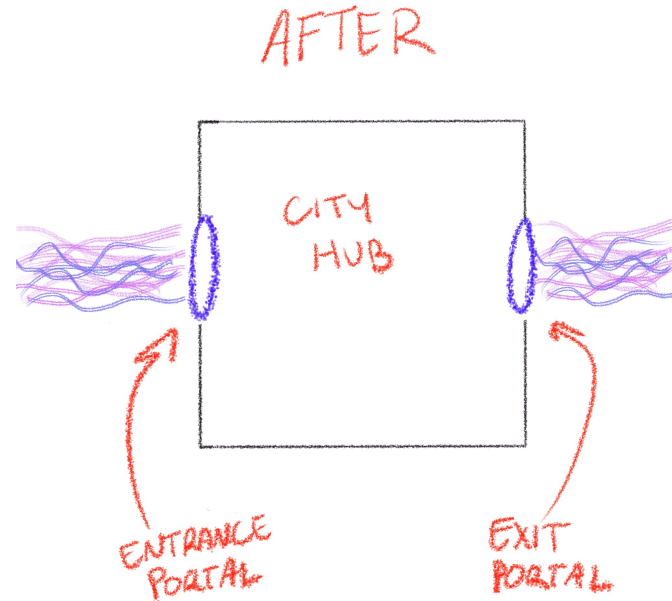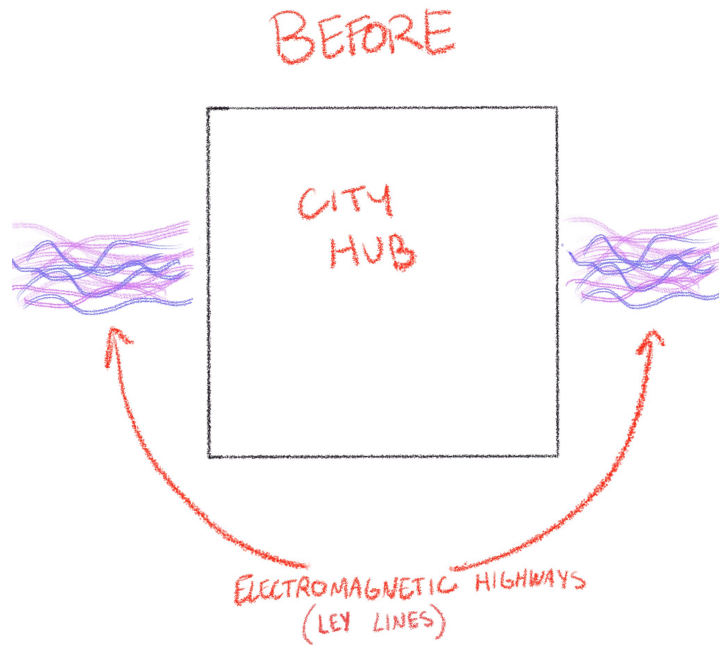
Portal Transportation Logistics

- Member sets the dial on the portal to their desired location and taps their amulet to the scanner

- Power from the stones in the agent's amulet and their access symbol triggers the portal to open

- While traveling, the stone absorbs the energy given off the Itineris Threads
    - absorption ensures the safety of the traveler
    - stone "recharged" for later portal travel uses

Portal Transportation Logistics

- Each Portal is designated with a certain arrangement of Runes for its location marker

- With destination set and power supplied:
  - Set frequency of the Rune Dial links two locations together by harnessing a connection of Itineris Threads
  - Power source causes a magnetic attraction between the matching Runes of the destination dial and the desired Portal
  - Magnetic attraction causes a resonance among the Itineris Threads of the set frequency
  - Energy build-up causes a pathway to open between the two locations

Scheduling

6 month project plan

	0	1	2	3	4	5	6
Pitches/ Sponsors	▉						
Initial Hiring		▉					
Continued hiring/ material gathering		▉					
Training and team building			▉				
Construction of physical and energy systems			▉	▉			
System Integration					▉		
Testing							▉

Month: 0   1   2   3   4   5   6
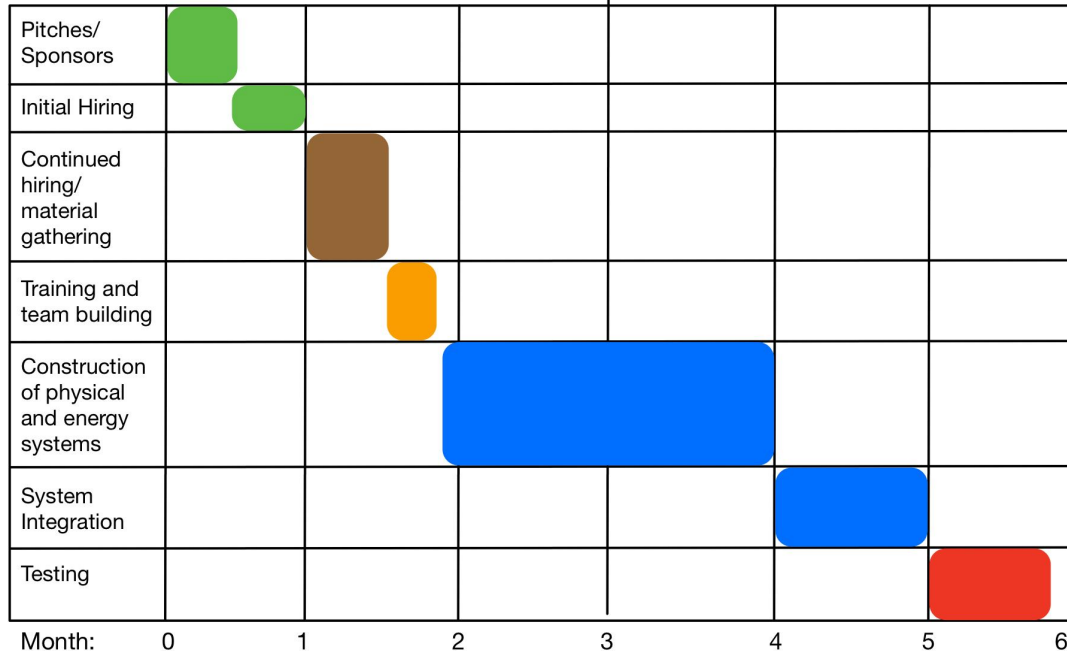
- 2 Weeks of pitches, sponsor gathering
- 1/2 month initial hiring period
- 1/2 month continued hiring and material gathering
- 1.5 weeks training and team building
- 3 months production (Physical structure building/Integration with magnetic system)
- 3 weeks testing

Administration

Necessary labor

- Physical laborers
  - Metal workers
  - Masons
- Engineering
  - RF Engineer
  - EM Engineer/EE
  - Energy Systems Engineer
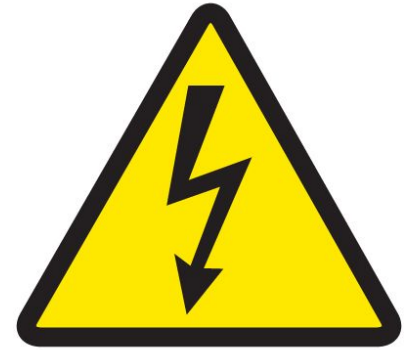
Budget

- Labor Costs
  - Engineering: $1.1 million
  - Physical: $400,000
- Administrative
  - $2.1 million
- Equipment and Materials
  - $500,000
- Facilities
  - $100,000

Total Estimate:
$4.2 million

Questions?