# Master Blueprint Integration Index for Refined Explore Feature

## Overview

This document provides detailed instructions for integrating the refined Explore Concepts Feature into the Setarcos App Master Technical Blueprint. The integration ensures proper indexing, cross-referencing, and consistency with existing documentation.

## 1. Integration Location

### Primary Section

- \*\*Section Number\*\*: 5.3

- \*\*Section Title\*\*: Explore Feature

- \*\*Current Location\*\*: Line 1488 in the master blueprint

- \*\*Action Required\*\*: Complete replacement of existing section content

### Table of Contents Update

- \*\*Location\*\*: Around line 55

- \*\*Current Entry\*\*: `\* [5.3 Explore Feature](#53-explore-feature)`

- \*\*Action Required\*\*: Update with any new subsections if not already present

## 2. Cross-Reference Updates

### Update References to Concepts System

- \*\*Location\*\*: Section 5.3 (Explore Feature)

- \*\*Action Required\*\*: Add cross-references to Section 5.9 (Concepts System)

- \*\*Example Format\*\*: `(see Section 5.9 for detailed Concepts System implementation)`

### Update References from Other Features

- \*\*Sections to Update\*\*:

- Section 5.1 (Ask Feature): Add reference to Explore integration

- Section 5.2 (Quest Feature): Update Quest-Explore integration references

- Section 5.4 (Journal Feature): Add reference to Journal-Explore integration

- Section 5.5 (Forum Feature): Add reference to Forum-Explore integration

- Section 5.9 (Concepts System): Ensure bidirectional references

## 3. Database Schema Updates

### Add New Tables to Section 7.2 (Table Definitions)

- \*\*Location\*\*: Section 7.2

- \*\*Action Required\*\*: Add the following table references:

```

- `concepts`: Core concept data (defined in Section 5.3)

- `concept\_relationships`: Relationships between concepts (defined in Section 5.3)

- `concept\_domains`: Major philosophical domains (defined in Section 5.3)

- `user\_constellations`: User's personal constellation container (defined in Section 5.3)

- `user\_concept\_discoveries`: User's discovered concepts (defined in Section 5.3)

- `user\_concept\_connections`: User's concept connections (defined in Section 5.3)

- `wisdom\_paths`: System and user-created paths (defined in Section 5.3)

- `wisdom\_path\_steps`: Sequence of concepts in paths (defined in Section 5.3)

- `curiosity\_triggers`: Entry point questions (defined in Section 5.3)

- `organic\_nudges`: User-generated content nudges (defined in Section 5.3)

```

### Update ERD in Section 7.1

- \*\*Location\*\*: Section 7.1

- \*\*Action Required\*\*: Ensure the Entity-Relationship Diagram includes the new tables and their relationships

## 4. API Endpoint Updates

### Add New Endpoints to Section 8.3 (Endpoint Specifications)

- \*\*Location\*\*: Section 8.3

- \*\*Action Required\*\*: Add the following endpoint references:

```

- GET /api/v1/explore/concepts (defined in Section 5.3)

- GET /api/v1/explore/constellation (defined in Section 5.3)

- GET /api/v1/explore/wisdom-paths (defined in Section 5.3)

- GET /api/v1/explore/wisdom-path/{path\_id} (defined in Section 5.3)

- POST /api/v1/explore/create-path (defined in Section 5.3)

- POST /api/v1/explore/discover-concept (defined in Section 5.3)

- POST /api/v1/explore/connect-concepts (defined in Section 5.3)

- POST /api/v1/explore/create-nudge (defined in Section 5.3)

- GET /api/v1/explore/nudges (defined in Section 5.3)

```

## 5. XP System Integration

### Update Section 6.2 (XP Calculation Logic)

- \*\*Location\*\*: Section 6.2

- \*\*Action Required\*\*: Add the following XP actions:

```

| Feature | Action | XP Reward | Conditions |

|---------|--------|-----------|------------|

| Explore | Curiosity Completion | +15 XP | Following curiosity trigger to concept detail |

| Explore | Concept Discovery | +3 XP | First-time viewing of a concept |

| Explore | Concept Connection | +5 XP | Creating a connection between two concepts |

| Explore | Path Step Completion | +10-30 XP | Varies based on concept complexity |

| Explore | Path Completion | +50 XP | Completing all steps in a wisdom path |

| Explore | Creating Wisdom Path | +25 XP | Creating and sharing a wisdom path |

| Explore | Contributing Nudge | +2 XP | Creating thought fragment or question seed |

| Explore | Discovery Streak | +5 XP per day | Exploring at least 3 concepts daily |

```

## 6. Asynchronous Processing Updates

### Update Section 10.3 (Task Definitions)

- \*\*Location\*\*: Section 10.3

- \*\*Action Required\*\*: Add the following Celery tasks:

```python

@celery\_app.task

def generate\_wisdom\_path\_recommendations(user\_id):

"""

Analyzes user's exploration history and generates personalized wisdom path recommendations.

Called daily or when user completes significant exploration milestone.

"""

pass

@celery\_app.task

def update\_concept\_popularity\_metrics():

"""

Updates concept popularity metrics based on user exploration patterns.

Called daily at off-peak hours.

"""

pass

@celery\_app.task

def clean\_expired\_organic\_nudges():

"""

Removes expired organic nudges from the database.

Called daily at off-peak hours.

"""

pass

@celery\_app.task

def sync\_concept\_mastery\_across\_features(user\_id, concept\_id, new\_mastery\_level):

"""

Synchronizes concept mastery level across all features when updated in any feature.

Called whenever concept mastery level changes.

"""

pass

```

## 7. Frontend Component Updates

### Update Section 3.2.1 (Frontend Components)

- \*\*Location\*\*: Section 3.2.1

- \*\*Action Required\*\*: Add the following component references:

```

- ExploreScreen: Main visualization interface with cosmic metaphor

- ConceptDetail: Detailed view of individual concepts

- PathNavigator: Interface for browsing wisdom paths

- ConstellationView: Personalized view of user's explored concepts

```

## 8. Analytics Implementation Updates

### Update Section 11.2 (Key Metrics and Events)

- \*\*Location\*\*: Section 11.2

- \*\*Action Required\*\*: Add the following analytics events:

```

| Category | Event | Properties |

|----------|-------|------------|

| Explore | concept\_discovered | concept\_id, concept\_name, domain\_id |

| Explore | concept\_connection\_created | source\_concept\_id, target\_concept\_id |

| Explore | wisdom\_path\_started | path\_id, path\_name, is\_system\_generated |

| Explore | wisdom\_path\_completed | path\_id, path\_name, time\_to\_complete |

| Explore | wisdom\_path\_created | path\_id, path\_name, steps\_count |

| Explore | nudge\_created | nudge\_type, concept\_id |

| Explore | nudge\_viewed | nudge\_id, nudge\_type, concept\_id |

```

## 9. Potential Conflicts and Considerations

### Concepts System Coordination

- \*\*Issue\*\*: The refined Explore feature is deeply integrated with the Concepts System (Section 5.9)

- \*\*Resolution\*\*: Ensure both sections are updated simultaneously and cross-referenced properly

- \*\*Action Required\*\*: Coordinate with Concepts System implementation team

### Database Schema Overlap

- \*\*Issue\*\*: Potential overlap between concept-related tables in different features

- \*\*Resolution\*\*: Use consistent table definitions and relationships

- \*\*Action Required\*\*: Review all concept-related tables across features for consistency

### XP Balance

- \*\*Issue\*\*: New XP rewards from Explore feature may affect overall XP economy

- \*\*Resolution\*\*: Ensure XP rewards are balanced with other features

- \*\*Action Required\*\*: Review XP distribution across all features

## 10. Implementation Timeline Alignment

- \*\*Phase 1\*\* (Core Visualization): Aligns with Sprint 3-5 in master blueprint timeline

- \*\*Phase 2\*\* (Navigation & Paths): Aligns with Sprint 6-8 in master blueprint timeline

- \*\*Phase 3\*\* (Community Features): Aligns with Sprint 9-11 in master blueprint timeline

- \*\*Phase 4\*\* (Advanced Integration): Aligns with Sprint 12-14 in master blueprint timeline