

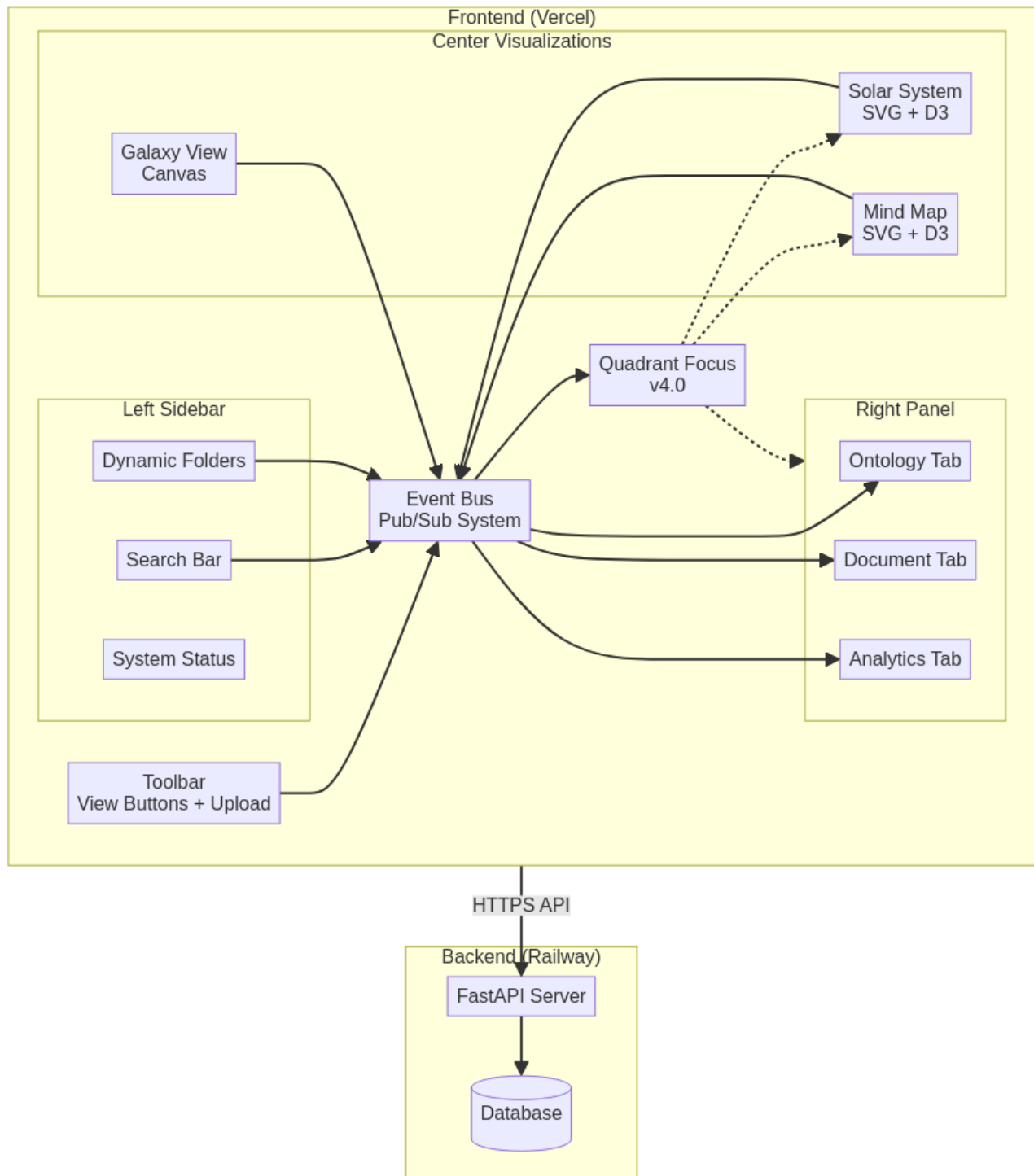
LoomLite v4.0 - System Flow Diagrams

Visual Reference Guide for Architecture and Data Flow

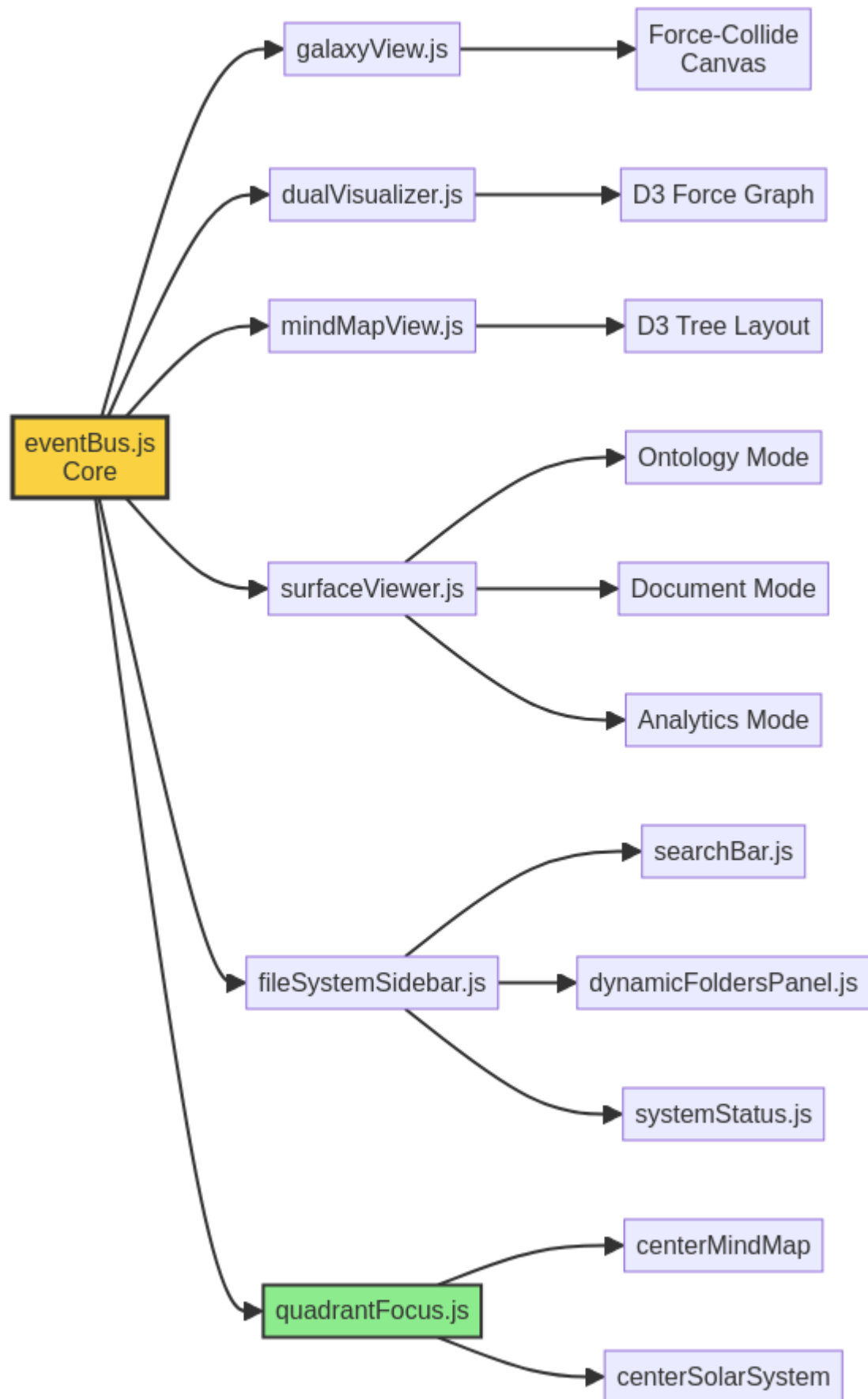
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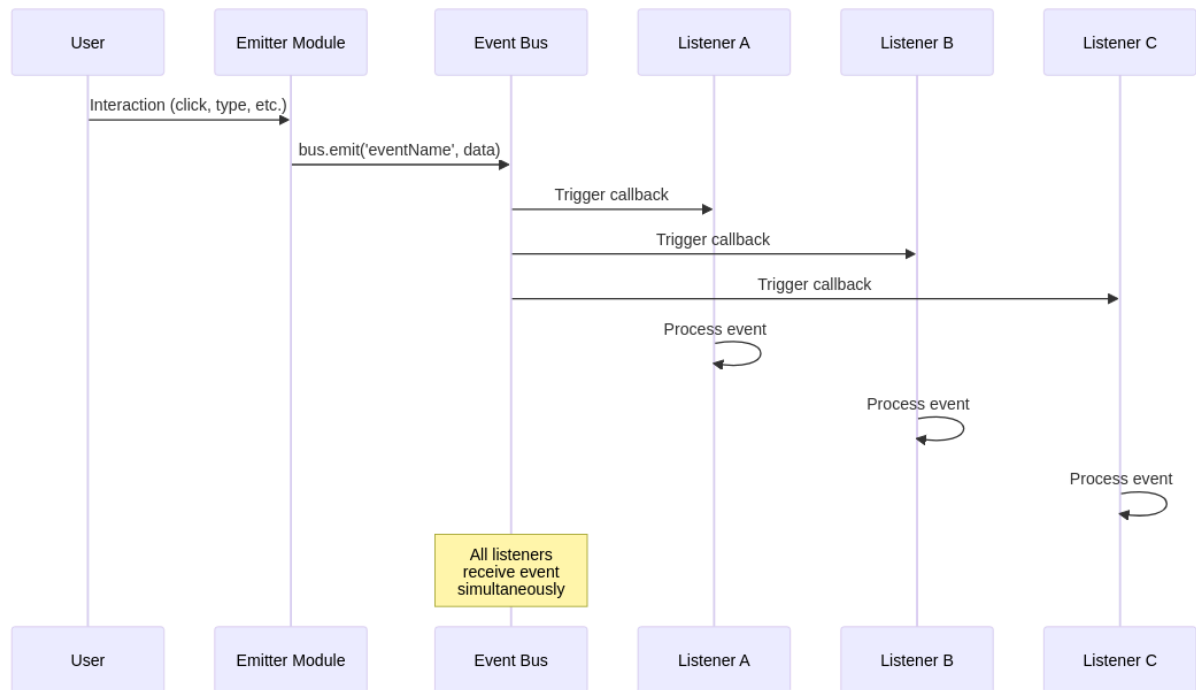
System Architecture Diagram



Module Dependency Graph

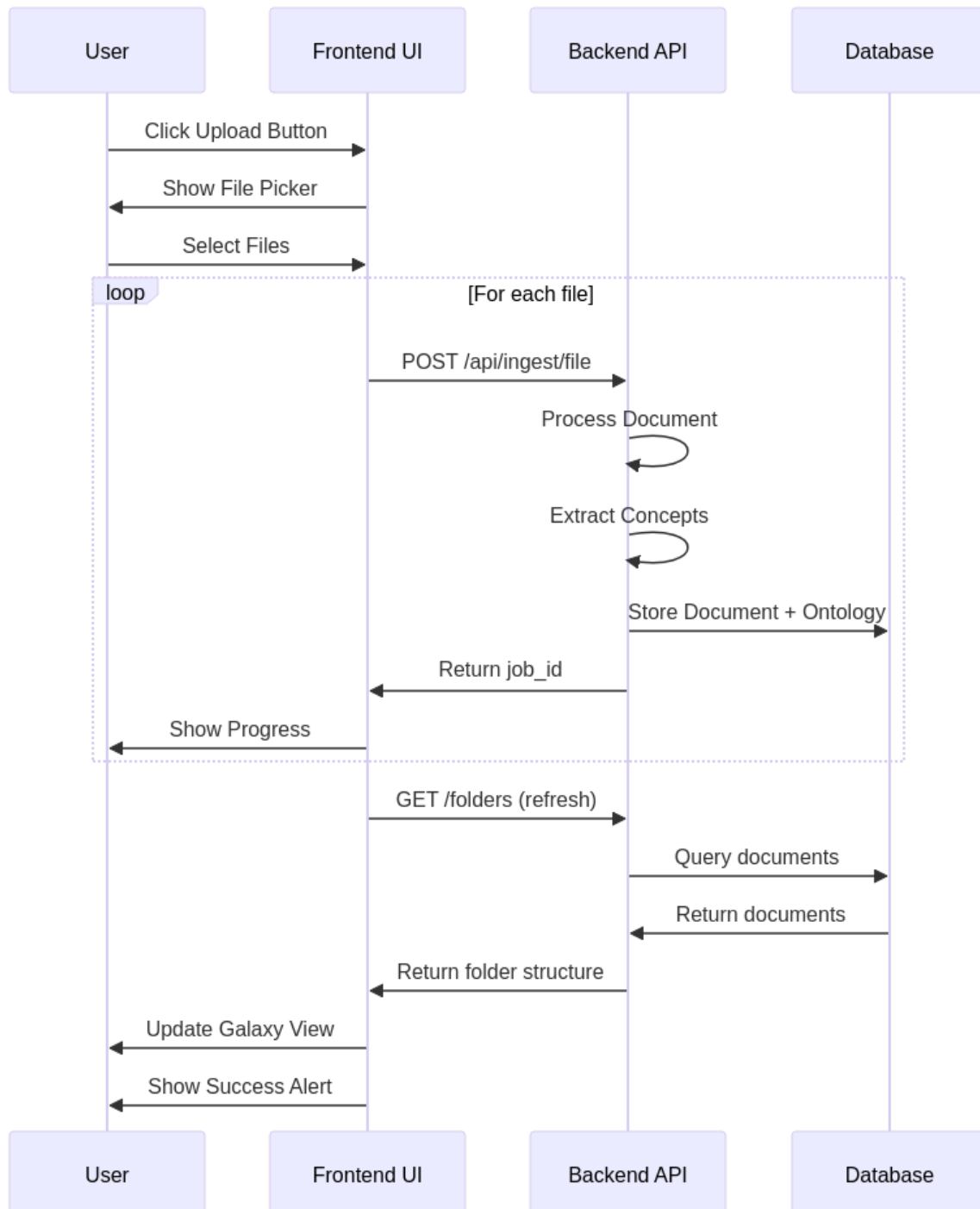


Event Bus Flow

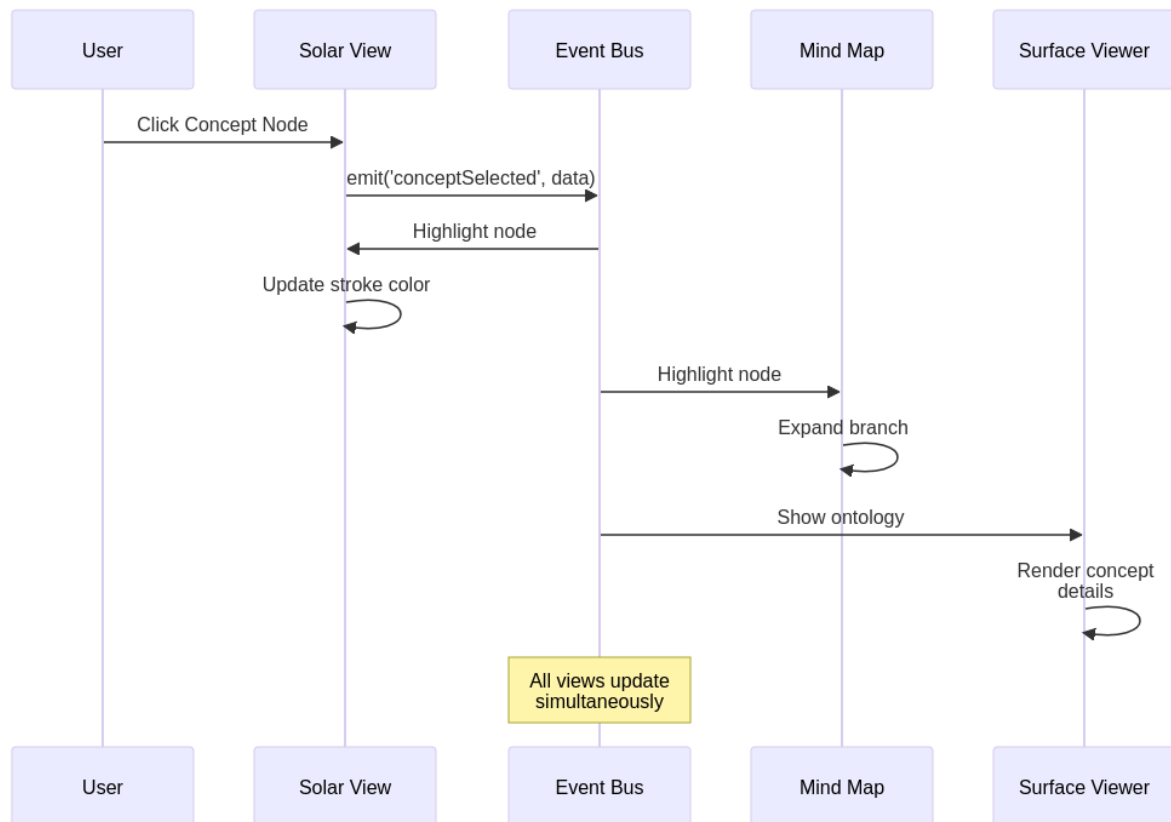


User Interaction Flows

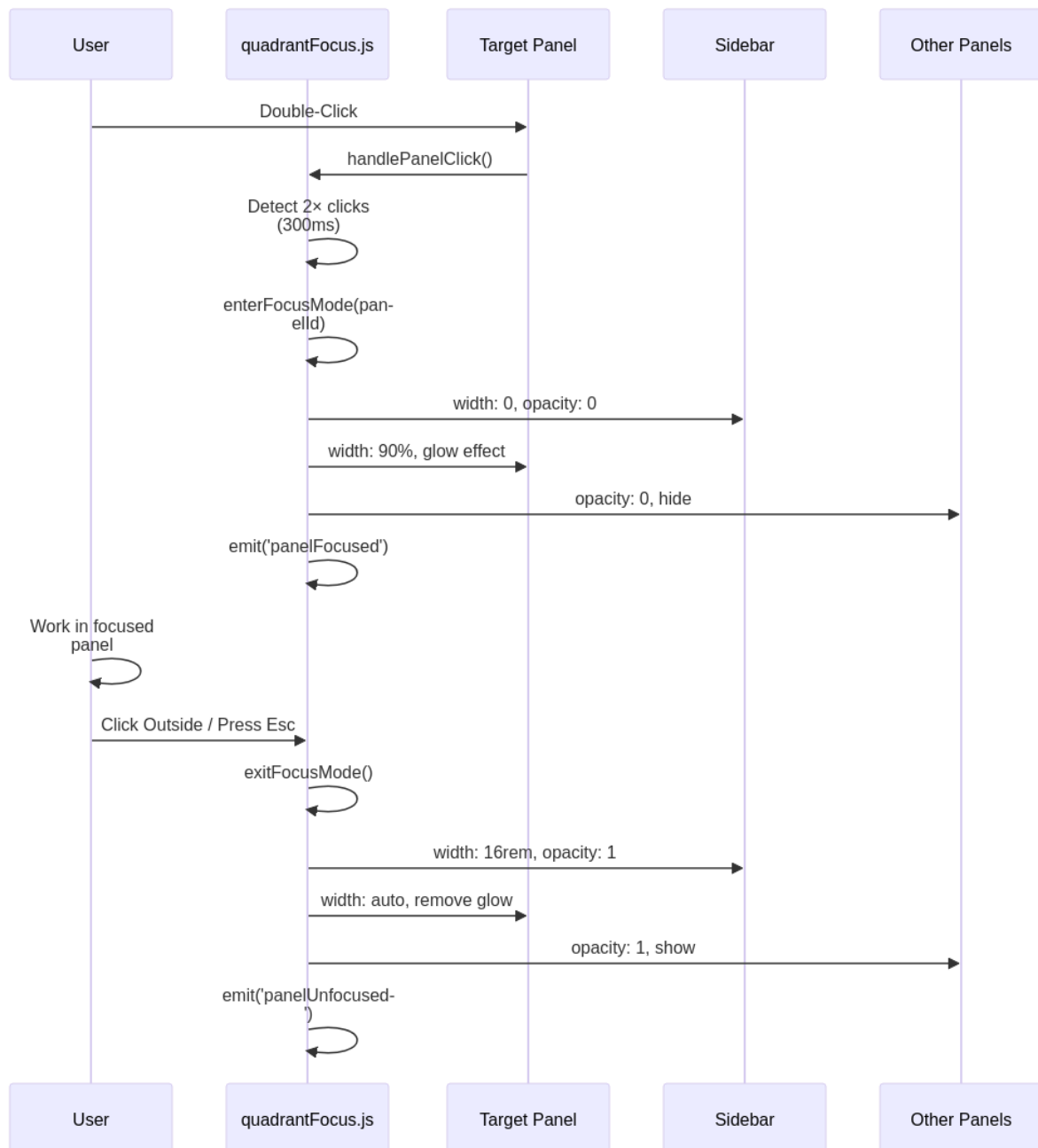
1. Document Upload Flow



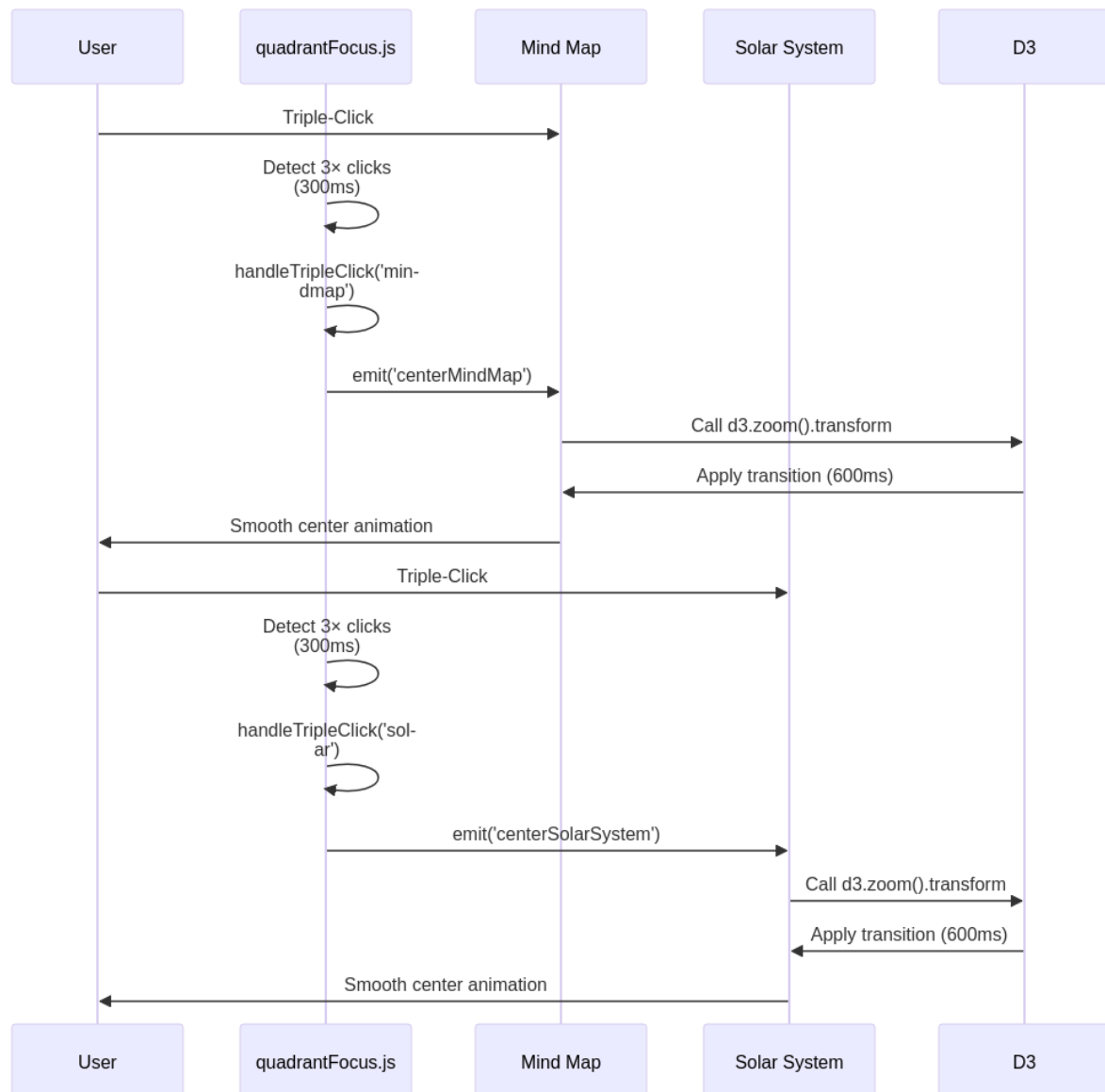
2. Concept Selection Flow



3. Focus Mode Flow

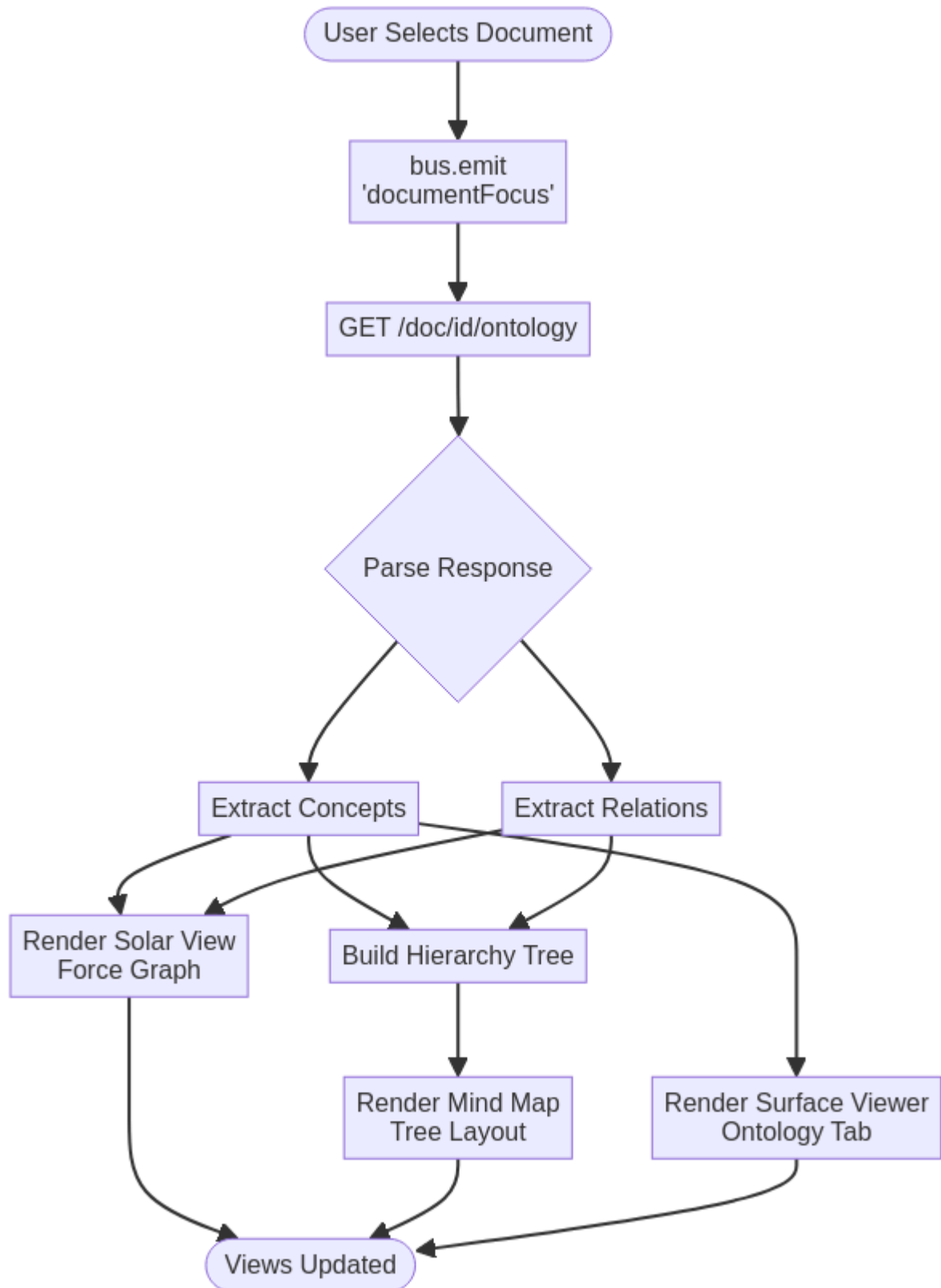


4. Semantic Centering Flow

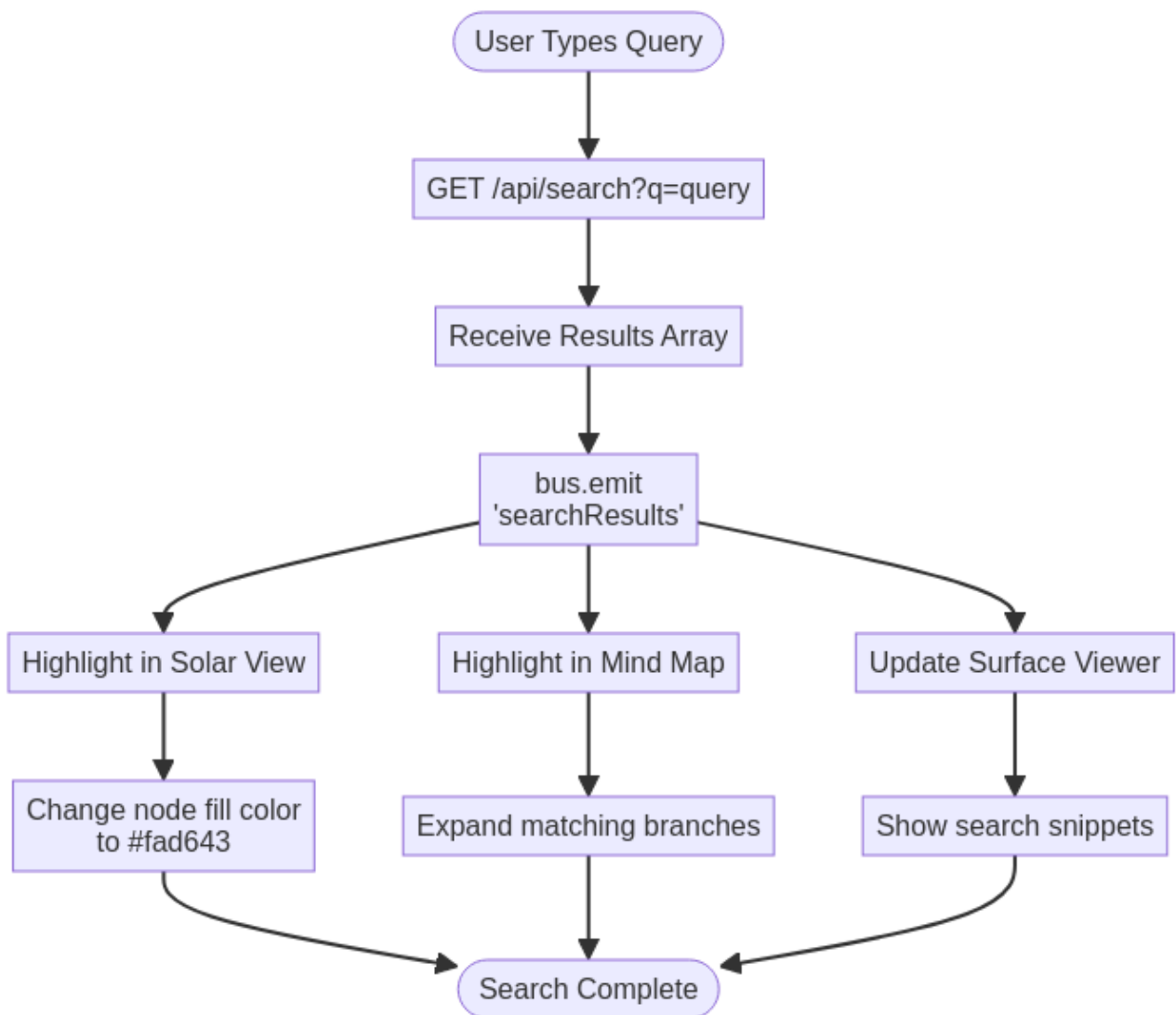


Data Flow Diagrams

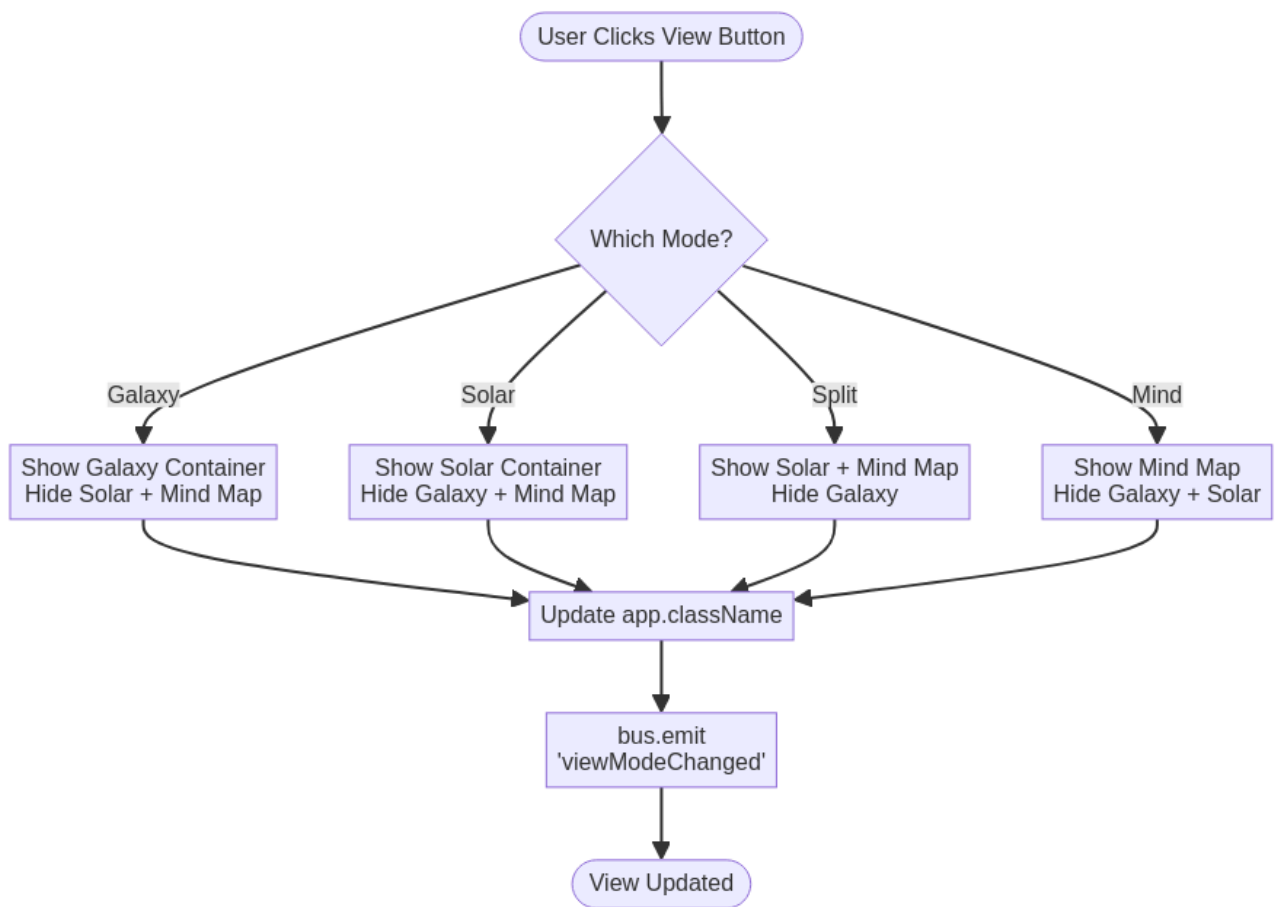
1. Document Ontology Loading



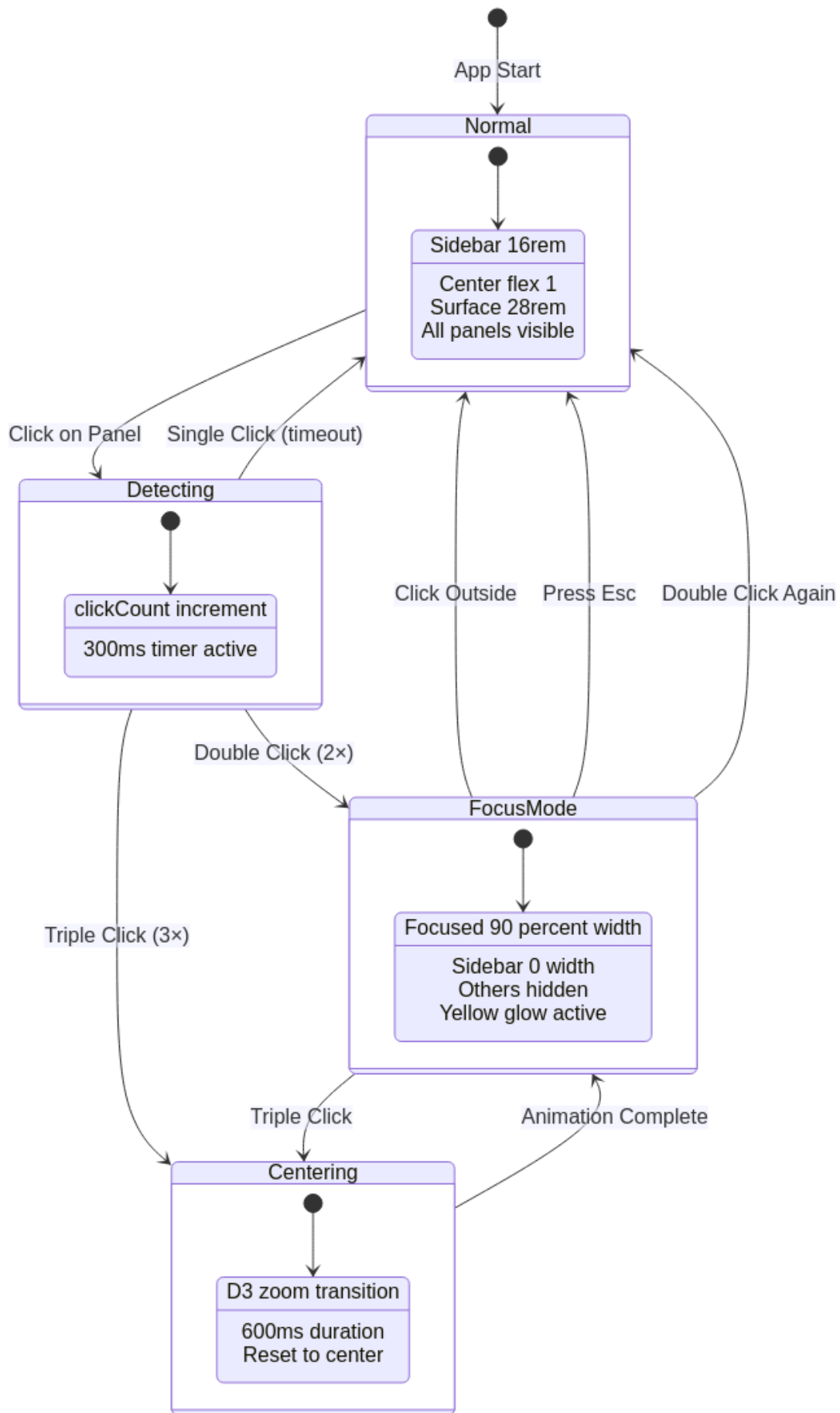
2. Search Result Highlighting



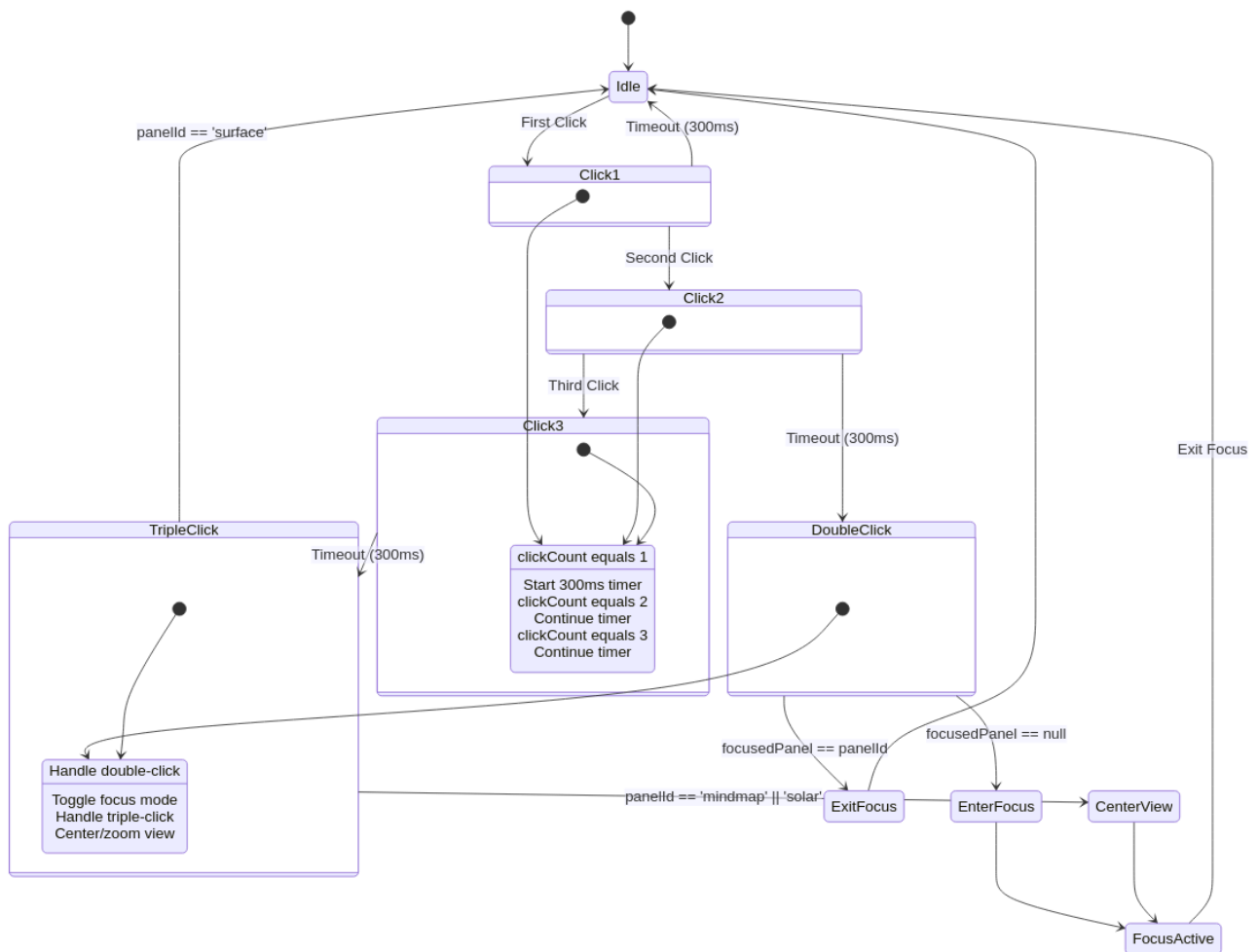
3. View Mode Switching



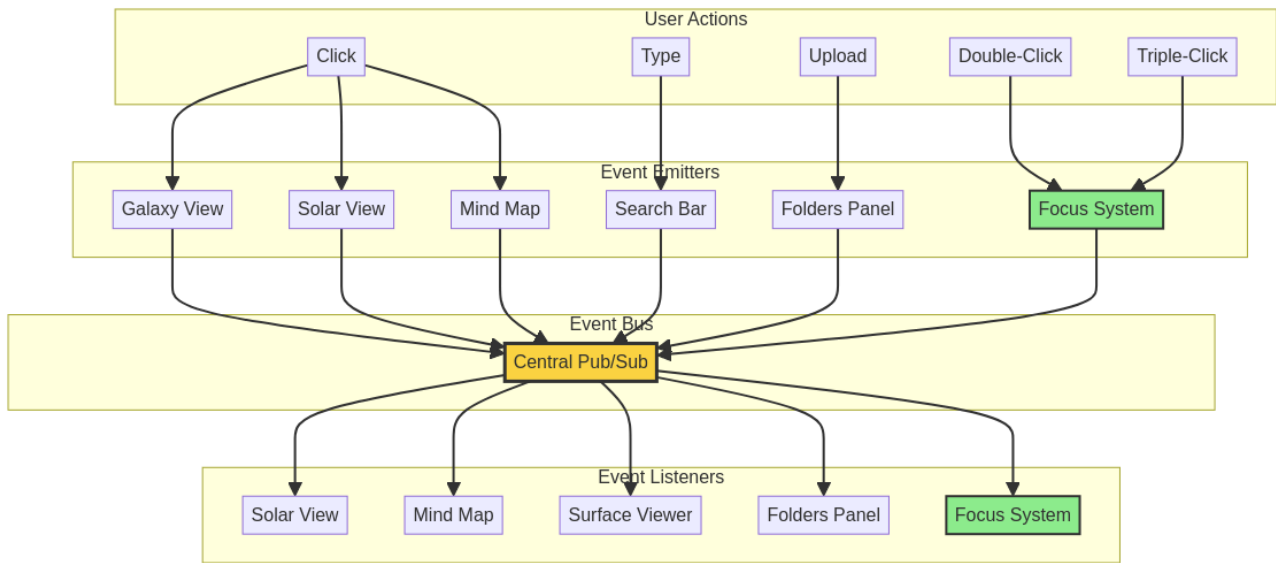
Focus Mode State Machine



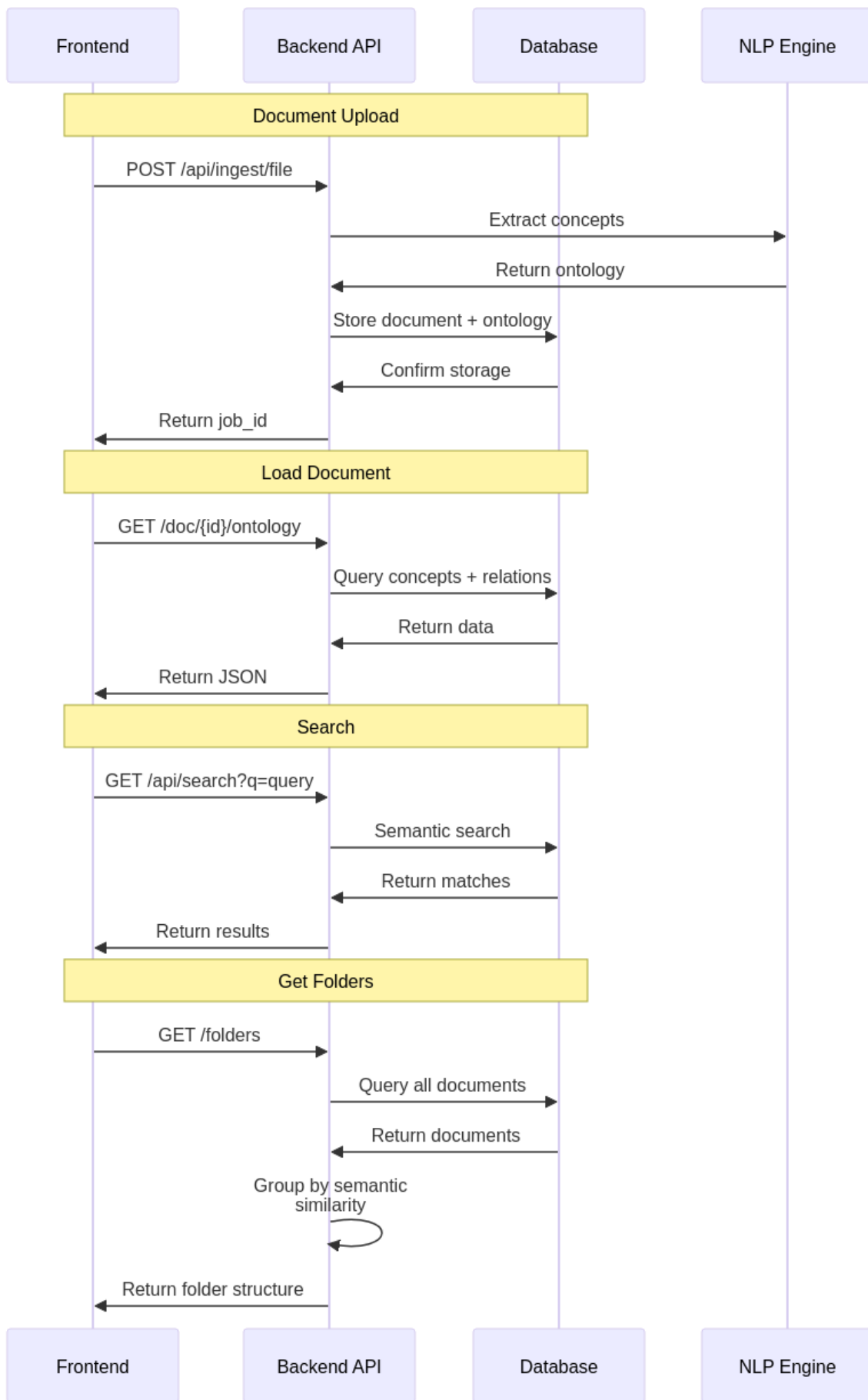
Click Detection State Machine



Component Interaction Map

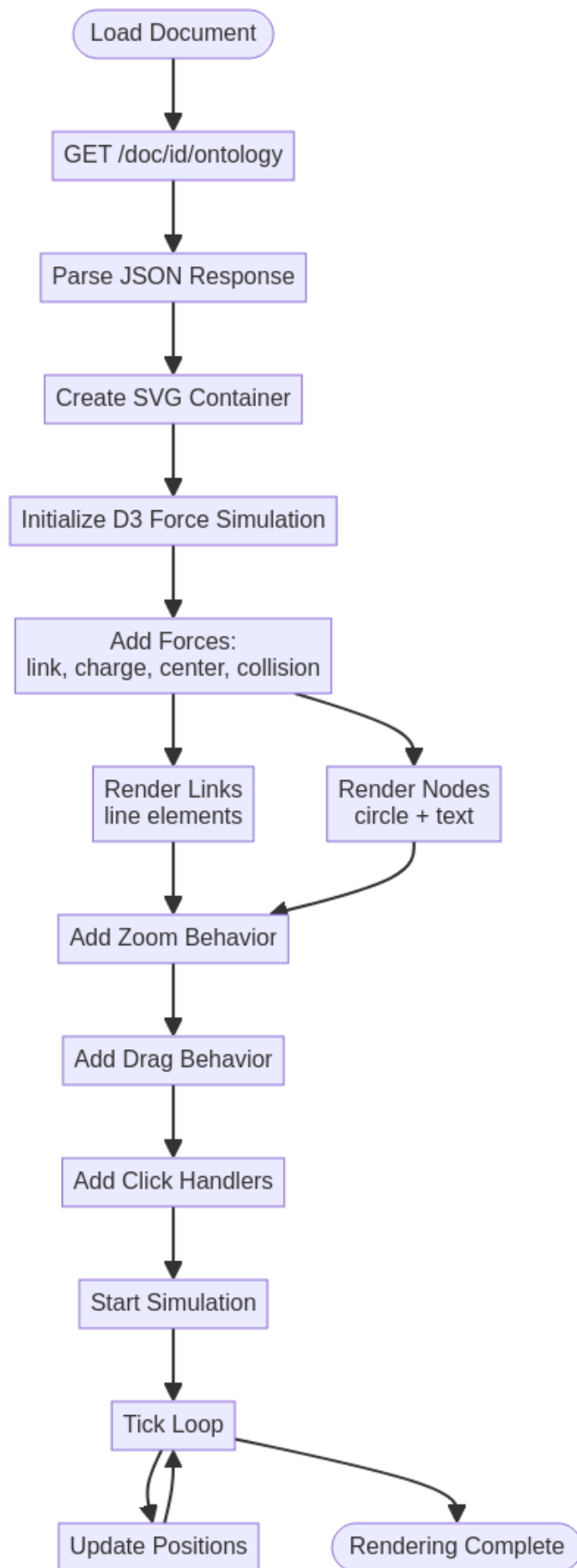


API Request Flow

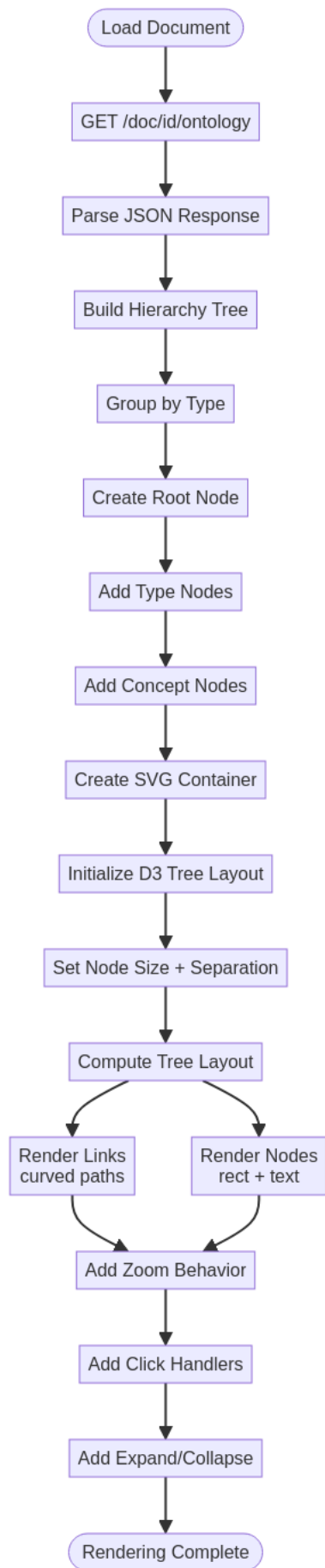


Rendering Pipeline

Solar System View Rendering

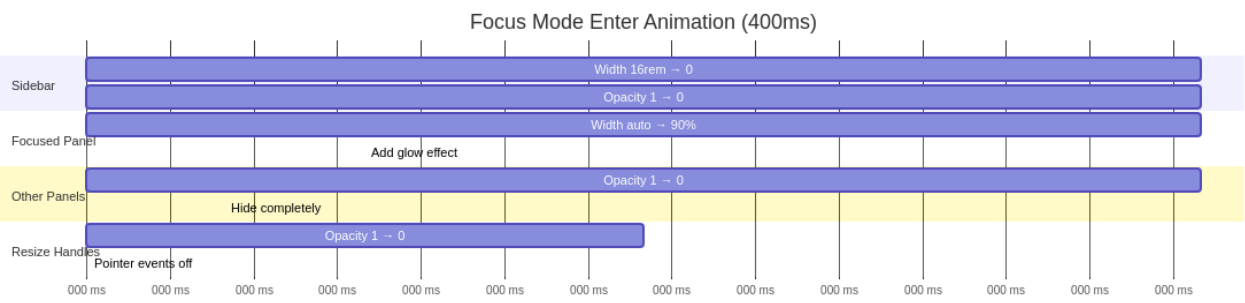


Mind Map View Rendering

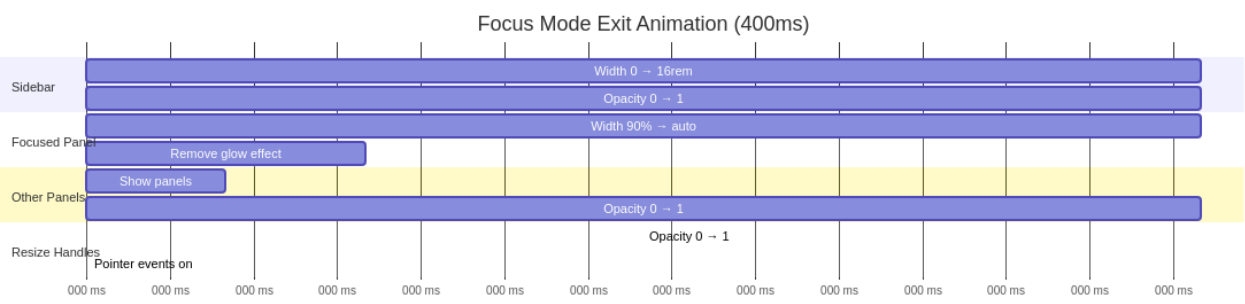


Focus Mode Transitions

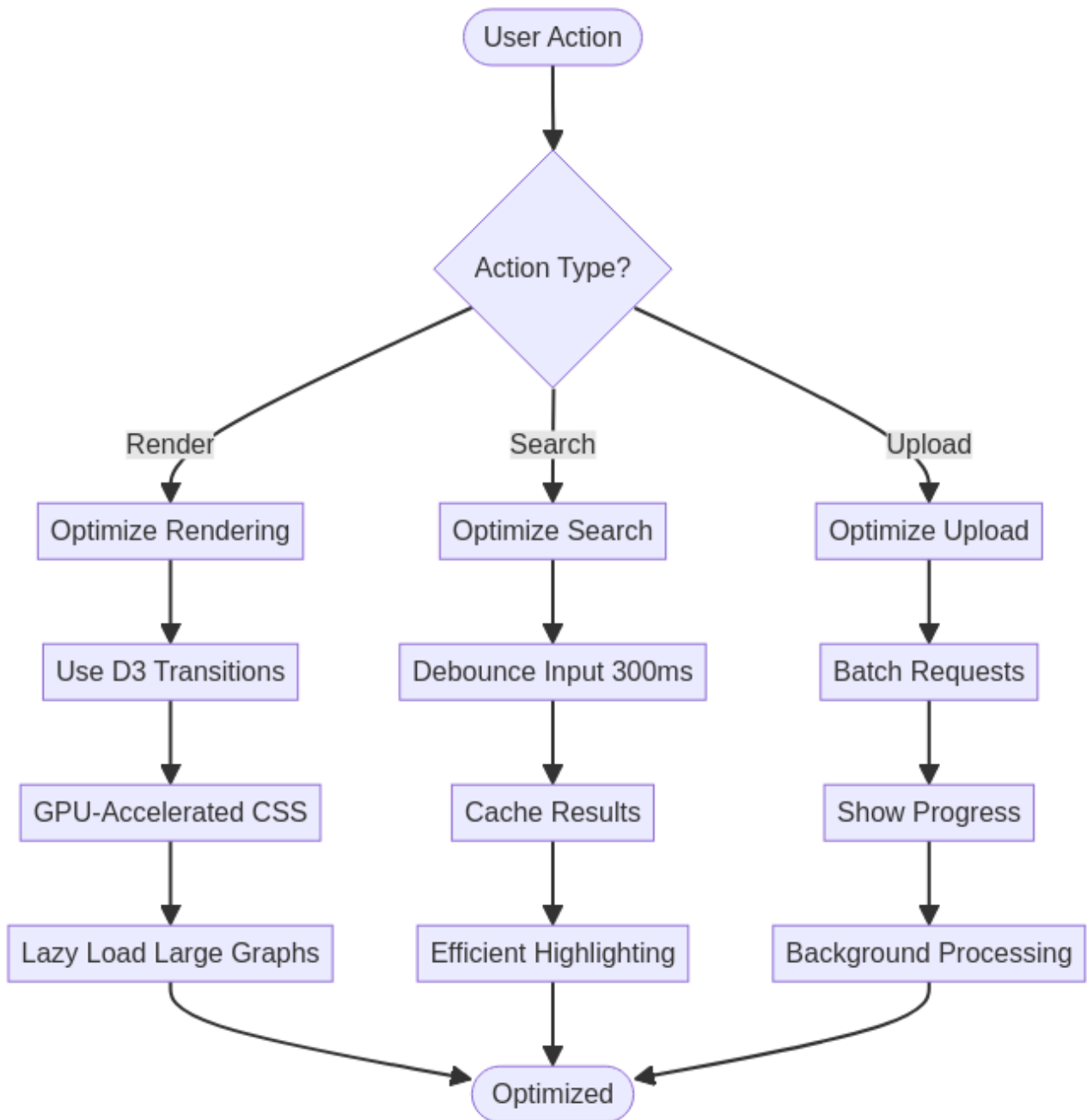
Enter Focus Mode Animation



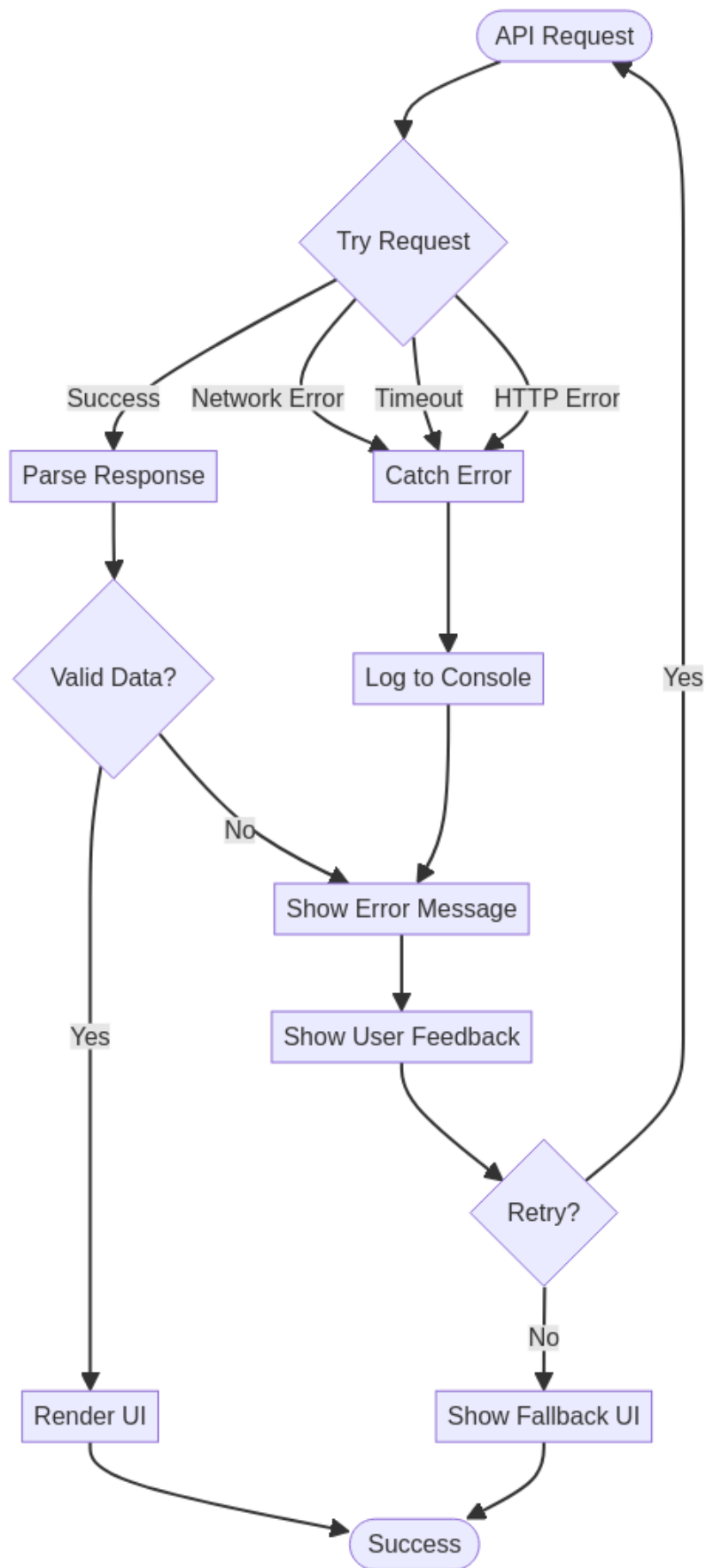
Exit Focus Mode Animation



Performance Optimization Flow



Error Handling Flow



Conclusion

These diagrams provide a comprehensive visual reference for understanding LoomLite's architecture, data flow, and interaction patterns. Use them alongside the Developer Handoff document for complete system understanding.

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