Image Analysis Platform - User Stories

ID	As a...	I want to...	So that...	Acceptance Criteria
US-01	User	Upload images for analysis	I can extract and analyze diagram information	• User can select and upload image files • System accepts common image formats • User receives immediate confirmation of upload
US-02	User	View analysis status of my uploaded images	I can track the progress of my image processing	• Real-time status updates (pending, processing, completed, failed) • Error messages displayed when processing fails
US-03	User	Browse and search through the diagram repository	I can find the specific diagrams I need	• Text search functionality • Filter by subject, quality, tags, and other metadata • Pagination of search results
US-04	User	View detailed analysis results for diagrams	I can understand the content and quality of the diagram	• Display of extracted text • Display of quality scores • Display of image metadata • Color analysis information
US-05	User	Tag and categorize diagrams	I can organize and find them later	• Add/edit tags and categories • Assign diagrams to subjects • Categorize by diagram type
US-06	User	Find similar diagrams to a selected diagram	I can discover related content	• System suggests similar diagrams based on content • Similarity ranking is displayed
US-07	User	Receive autocomplete suggestions while searching	I can search more efficiently	• Search box provides suggestions as user types • Suggestions are relevant to input
US-08	Administrator	View statistics about the processing queue	I can monitor system performance	• Dashboard showing pending jobs count • Queue status information • Error reporting
US-09	Administrator	Manage diagram types and subject categories	I can maintain taxonomy and organization	• CRUD operations for diagram types • CRUD operations for subjects • Ability to organize hierarchical categories
US-10	API Consumer	Access diagram data through GraphQL	I can integrate with other systems	• GraphQL endpoint provides diagram data • Pagination and filtering options • Complete schema documentation

ID	As a...	I want to...	So that...	Acceptance Criteria
US-11	User	View high-quality images of diagrams	I can clearly see the diagram details	• Images displayed at appropriate resolution • Zoom functionality • Fast loading via CDN
US-12	User	Export diagram data	I can use the information in other applications	• Download options for analysis results • Export in common formats (JSON, CSV) • Include metadata and extracted text
US-13	User	Perform advanced searches with multiple criteria	I can find very specific diagrams	• UI for building complex queries • Combine text search with metadata filters • Sort results by different attributes
US-14	System	Process images in the background	Users don't have to wait for analysis to complete	• Queue-based architecture • Multiple workers processing jobs simultaneously • Resilient to worker failures
US-15	System	Store and retrieve images efficiently	The platform performs well at scale	• S3 storage with CloudFront CDN • Proper indexing in MongoDB • Efficient query optimization