

# User Guide

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## Getting Started

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### Accessing the Application

Once deployed, access the GREDs AI Reference Library at:

- Frontend: <http://localhost:3000>
- API Documentation: <http://localhost:8000/docs>

### Main Features

#### 1. Dashboard

The dashboard provides an overview of:

- Total works ingested
- Total chunks indexed
- Active sessions
- Recent activity

#### 2. Repository Management

Navigate to **Repositories** to:

- View all ingested works
- Add new repositories
- View ingestion status
- Regenerate indexes if needed

##### Adding a Repository:

1. Click "Add Repository"
2. Enter the GitHub URL
3. Provide a unique slug (e.g., "cosmology-hub")
4. Configure metadata (title, authors, tags)
5. Click "Ingest"

#### 3. Query Interface

The **Query** page allows you to:

- Submit natural language questions
- View retrieved chunks
- See citation information
- Filter by tags or works

##### Submitting a Query:

1. Enter your question in the search box
2. Optionally filter by tags or specific works
3. Click "Search"
4. Review results with inline citations

#### 4. Knowledge Graph

The **Graph** visualization shows:

- Dependencies between works

- Citation relationships
- Concept clustering

## 5. Session Management

The **Sessions** page allows you to:

- Create new sessions
- View active sessions
- Create checkpoints
- Rehydrate previous sessions

### Creating a Checkpoint:

1. Navigate to your active session
2. Click “Create Checkpoint”
3. Provide a descriptive name
4. Checkpoint saved for later rehydration

## 6. Verification Dashboard

The **Verifier** page displays:

- Recent verification runs
- Pass/fail statistics
- Failed claims for review
- Verifier performance metrics

## 7. Audit Logs

The **Audit** page provides:

- Searchable audit trail
- Filtering by event type
- Download logs as JSON
- Compliance reporting

# Best Practices

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## Query Formulation

- Be specific in your questions
- Use technical terms from your domain
- Reference specific concepts or papers
- Review multiple chunks for complete context

## Session Management

- Create checkpoints at major milestones
- Name checkpoints descriptively
- Rehydrate sessions when resuming work
- Review condensed summaries regularly

## Citation Verification

- Always review partial/failed citations
- Update source documents if needed
- Use verifier feedback to improve queries
- Monitor verifier thresholds

# Troubleshooting

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## Common Issues

### Issue: Slow query responses

- Check if indexes are built
- Reduce top-K parameter
- Verify backend health

### Issue: Low verification scores

- Review query formulation
- Check chunk quality
- Adjust verifier thresholds

### Issue: Missing citations

- Ensure work is fully ingested
- Check ingestion logs
- Regenerate indexes if needed

## Support

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For additional help:

- Check the [Architecture](#) (architecture.md) documentation
- Review [API Reference](#) (api-reference.md)
- Submit issues on GitHub