

Sharrow Feature Documentation

Core Features

1. Multi-Service Media Sharing

Share content from a wide variety of streaming platforms directly to your MeTube instance:

- YouTube (videos, playlists, channels)
- Vimeo
- Twitch
- Reddit
- Twitter/X
- Instagram
- Facebook
- SoundCloud
- Dailymotion
- Bandcamp
- And any other service supported by yt-dlp

2. Server Profile Management

- Create and manage multiple MeTube server profiles
- Set a default profile for quick sharing
- Test server connections before saving
- Edit or delete existing profiles
- Profile validation for URL format and port ranges

3. Encrypted Data Storage

- All application data stored with SQLCipher encryption
- History items, profiles, and settings secured at rest
- No plaintext data stored on the device
- Secure database implementation using Room

Advanced Features

4. Comprehensive Sharing History

- Detailed tracking of all shared links
- Metadata including:
 - Service provider (YouTube, Vimeo, etc.)
 - Media type (single video, playlist, channel)
 - Timestamp of sharing
 - Target profile information
 - Send success/failure status
- Filtering capabilities:

- By service provider
- By media type
- By target profile
- Resend functionality for any history item
- Flexible cleanup options:
 - Delete individual items
 - Delete by service provider
 - Delete by media type
 - Delete all history

5. Theme Customization System

Six distinct color schemes with light and dark variants:

1. **Warm Orange** - Energetic and vibrant
2. **Crimson** - Bold and dramatic
3. **Light Blue** - Calm and refreshing
4. **Purple** - Creative and elegant
5. **Green** - Natural and soothing
6. **Material** - Default Material Design theme

6. Professional Branding

- Custom-designed Sharrow logo combining "share" and "arrow" concepts
- Adaptive icons for all Android versions
- Splash screen with theme awareness
- Consistent branding throughout the application
- SVG source assets for scalability

7. User Experience Enhancements

- Modern Material Design 3 implementation
- Intuitive navigation with clear workflows
- Responsive layouts for all screen sizes
- Contextual help and error messages
- Quick access to key features
- Smooth transitions and animations

Technical Features

8. Security Implementation

- SQLCipher encryption for all local data
- HTTPS support for server communications
- Input validation for all user data
- Secure storage of sensitive information
- No data collection or transmission without explicit user action

9. Performance Optimization

- Efficient database queries with Room
- Background processing for network operations
- Memory-efficient data handling
- Optimized layouts and resource usage
- Fast theme switching

10. Developer Features

- Well-structured codebase with clear separation of concerns
- Comprehensive documentation
- Standard Android development practices
- Easy to build and deploy
- Extensible architecture

User Interface Components

11. Main Screens

- **Splash Screen:** Branded loading screen with theme support
- **Main Dashboard:** Quick access to key features
- **Share Screen:** Media link sharing with profile selection
- **History Screen:** Comprehensive sharing history with filtering
- **Settings Screen:** Profile management and theme selection
- **Profile Management:** Create, edit, and test server profiles
- **Theme Selection:** Choose from multiple color schemes

12. UI Elements

- Material Design cards for content organization
- Floating action buttons for key actions
- Dropdown menus for profile and filter selection
- Progress indicators for network operations
- Contextual buttons for item actions
- Clear visual hierarchy and typography
- Appropriate spacing and padding

Integration Features

13. Android Integration

- Share intent receivers for direct URL handling
- Proper Android lifecycle management
- Support for both portrait and landscape orientations
- Adaptive layouts for different screen sizes
- System theme awareness (day/night mode)

14. MeTube Integration

- Direct API communication with MeTube instances

- Support for all MeTube-supported media types
- Automatic browser redirection after sharing
- Error handling for network issues
- Connection testing capabilities

Accessibility Features

15. Usability Considerations

- High contrast color schemes
- Large touch targets for easy interaction
- Clear visual feedback for user actions
- Descriptive text for all interactive elements
- Support for system accessibility features

Future Enhancement Opportunities

16. Planned Features

- Export/import of profiles and history
- Advanced filtering and search capabilities
- Batch sharing of multiple links
- Notification system for download completion
- Widget support for quick access
- Cloud sync for profiles and settings

This comprehensive feature set makes Sharrow a powerful and user-friendly tool for managing media downloads through MeTube, with a focus on security, customization, and ease of use.