LockBox API Specification

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1. Overview

This document outlines the REST API endpoints for the LockBox password manager system. The API follows RESTful design principles and uses JSON for data exchange.

2. Base URL

All API endpoints are relative to the base URL: https://api.lockboxmanager.com/v1

- 3. Authentication
- 3.1 Authentication Methods
- JWT Token Authentication: For most API endpoints
- API Key Authentication: For server-to-server integrations
- 3.2 Authorization Headers
- For JWT Token authentication: Authorization: Bearer {jwt_token}
- For API Key authentication: X-API-Key: {api_key}

```
4. Response Format
```

```
Success Response:

{
    "status": "success",
    "data": { },
    "meta": { }
}

Error Response:

{
    "status": "error",
    "error": {
        "code": "ERROR_CODE",
        "message": "Human-readable error message",
        "details": [ ]
    }
}
```

5. Common Status Codes

200 OK, 201 Created, 204 No Content, 400 Bad Request, 401 Unauthorized, 403 Forbidden, 404 Not Found, 422 Unprocessable Entity, 500 Internal Server Error

- 6. API Endpoints
- 6.1 User Management
- GET /users/{userId}, POST /users
- 6.2 Credential Management
- GET /credentials, POST /credentials, GET /credentials/{id}, PUT /credentials/{id}, DELETE /credentials/{id}
- 6.3 Folder Management
- GET /folders, POST /folders, PUT /folders/{id}, DELETE /folders/{id}
- 6.4 Sharing
- POST /share, GET /share/{id}, DELETE /share/{id}

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7. Rate Limiting

Standard: 100 req/min, Premium: 500 req/min, API clients: 1000 req/min

8. Pagination

page, limit query params, with metadata included in "meta"

9. Versioning

API versioning via URL path (v1)

10. CORS

CORS enabled for all endpoints

11. API Sequence Diagrams

11.1 User Registration Flow

Client -> API -> AuthService -> UserService -> Database

11.2 Credential Save Flow

Client -> API -> CredentialService -> Database