API Documentation

Overview

The Berean Bible Reading Plan Application integrates with external Bible APIs and provides internal API endpoints for application functionality.

External API Integration

ESV API (Crossway)

Base URL: https://api.esv.org/v3/

Authentication

• Method: Token-based authentication

• **Header**: Authorization: Token {ESV_API_KEY}

• Environment Variable: ESV_API_KEY

Endpoints Used

Get Passage Text

```
GET /passage/text/
```

Parameters:

- q (string): Bible reference (e.g., "John 3:16", "Genesis 1:1-31")
- include-headings (boolean): Include section headings
- include-footnotes (boolean): Include footnotes
- include-verse-numbers (boolean): Include verse numbers
- include-short-copyright (boolean): Include copyright notice

Example Request:

```
const response = await fetch('https://api.esv.org/v3/passage/text/?q=John+3:16', {
  headers: {
    'Authorization': `Token ${process.env.ESV_API_KEY}`
  }
});
```

Example Response:

```
"query": "John 3:16",
  "canonical": "John 3:16",
  "parsed": [[43003016, 43003016]],
  "passage_meta": [
      "canonical": "John 3:16",
      "chapter_start": [43003001, 43003036],
      "chapter_end": [43003001, 43003036],
      "prev_verse": 43003015,
      "next_verse": 43003017,
      "prev_chapter": [43002001, 43002025],
      "next_chapter": [43004001, 43004054]
   }
  ],
  "passages": [
    "John 3:16\n [16] For God so loved the world, that he gave his only Son, that
whoever believes in him should not perish but have eternal life. (ESV)\n\n"
}
```

Internal API Endpoints

Reading Progress

Get User Progress

```
GET /api/progress
```

Response:

```
"currentDay": 1,
  "completedDays": [1, 2, 3],
  "totalDays": 365,
  "lastReadDate": "2025-07-10",
  "streak": 5
}
```

Update Progress

```
POST /api/progress
```

Request Body:

```
{
  "day": 1,
  "completed": true,
  "readingTime": 1200
}
```

Reading Plans

Get Available Plans

```
GET /api/plans
```

Response:

Get Plan Details

```
GET /api/plans/{planId}
```

Response:

Bible Translations

Get Available Translations

```
GET /api/translations
```

Response:

Error Handling

Standard Error Response

```
"error": {
    "code": "INVALID_REFERENCE",
    "message": "The provided Bible reference is invalid",
    "details": "Reference 'John 99:99' does not exist"
}
}
```

Common Error Codes

- INVALID_REFERENCE : Bible reference is malformed or doesn't exist
- API_LIMIT_EXCEEDED : External API rate limit exceeded
- UNAUTHORIZED: Invalid or missing API key
- TRANSLATION_UNAVAILABLE : Requested translation is not available
- INTERNAL_ERROR : Server-side error occurred

Rate Limiting

ESV API Limits

- Free Tier: 5,000 requests per day
- Paid Tier: Higher limits available

Application Limits

- Reading Progress: 100 requests per hour per user
- Bible Text: 1,000 requests per hour per user

Caching Strategy

Client-Side Caching

- Bible passages cached in localStorage for 24 hours
- Translation metadata cached for 7 days
- User progress synced on app load and periodically

Server-Side Caching

- · Popular passages cached for 1 hour
- Translation lists cached for 24 hours
- Reading plans cached indefinitely (updated on deployment)

Authentication & Security

API Key Management

- ESV API keys stored as environment variables
- Never exposed to client-side code
- Rotated regularly for security

Data Privacy

- User progress stored locally (no server-side user data)
- No personal information collected
- GDPR compliant data handling

Development & Testing

Mock API for Development

```
// For development without API key
const mockResponse = {
  passages: ["Mock Bible text for development"],
  query: "John 3:16"
};
```

Testing Endpoints

- Use test API keys for development
- Mock responses for unit tests
- Integration tests with rate limiting considerations

For implementation examples and code samples, see the /app/lib/api/ directory in the project.