# Grace

An open-source, cross-platform collection management platform



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#3

### Introduction

Grace as a capstone project is split into three primary components:

#### Client

# 1

Grace is cross-platform client application, built in Dart with Flutter

#### Server

Grace Authentication API is a Node-based REST API serving authentication requests

#### Server

# 2

Grace Material API is a Gobased REST API serving material requests





## Requirements: Grace

Users should be able to...

- create an account and sign in
- manage their account with a profile dashboard
- view and add books, movies, shows, games to collections

Administrators should be able to...

view and manage users and materials from a dashboard





## Requirements: Authentication

### API should support...

- account creation with email and password
- account creation with an external service
- account sign-in with email and password
- account sign-in with an external service
- account sign-out with cookie removal





## Requirements: Material

API should support material fetching...

- with a type and generated identifier (e.g., UUID)
- with a type and supplied identifier (e.g., ISBN)
- with a type and title
- without a type but with a generated identifier
- without a type but with a supplied identifier
- without a type but with a title





### Artifacts

First iteration includes the following artifacts:

### Grace

# 1

Available <u>here</u> - does not interface with either server component.

#### **Auth API**

# 2

Available <u>here</u> - proof-ofconcept can be interfaced with Insomnia

#### Material API

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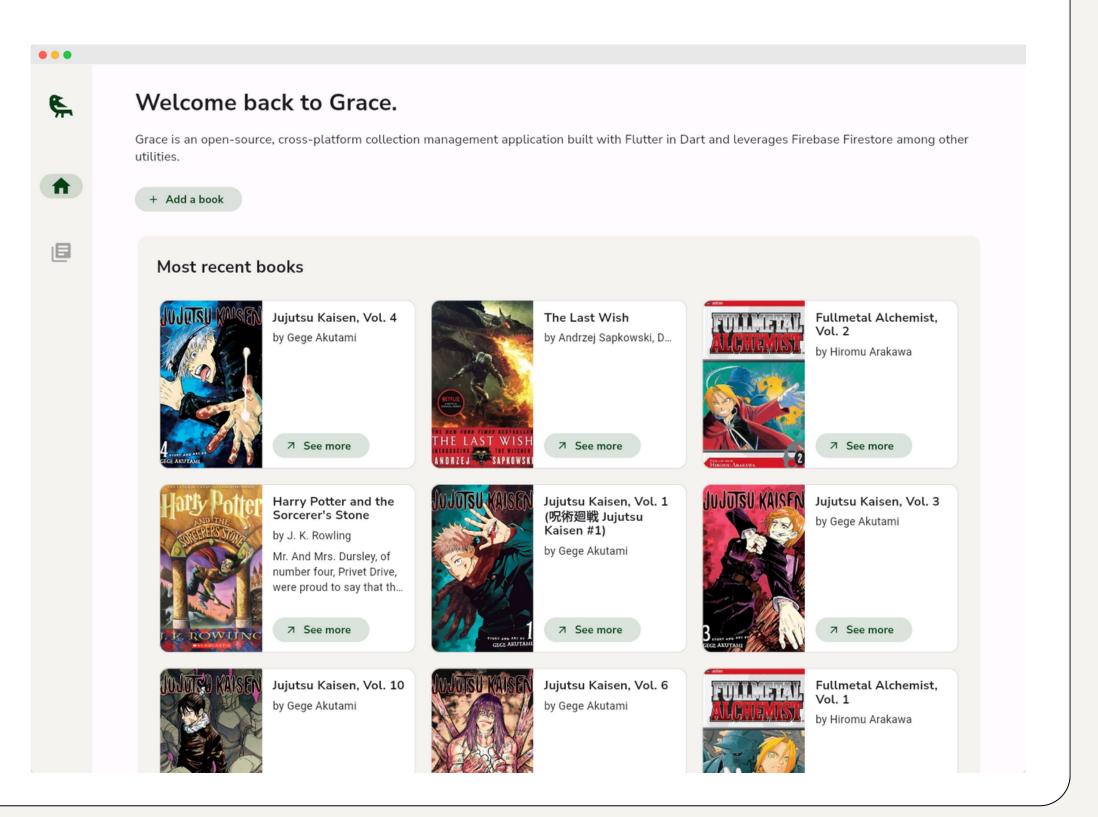
Available <u>here</u> - proof-ofconcept can be interfaced with Insomnia





### Grace

Grace is cross-platform client application, built in Dart with Flutter, with primary support for web and iOS.

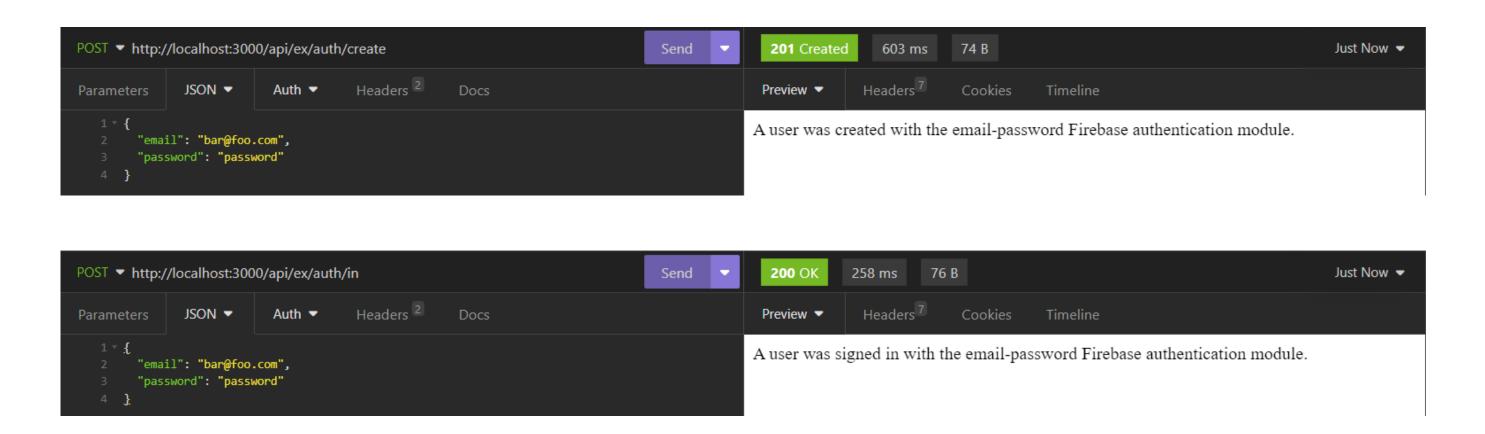






### Authentication API

Grace Authentication API is a Node-based REST API serving authentication requests, interfaced with Insomnia.

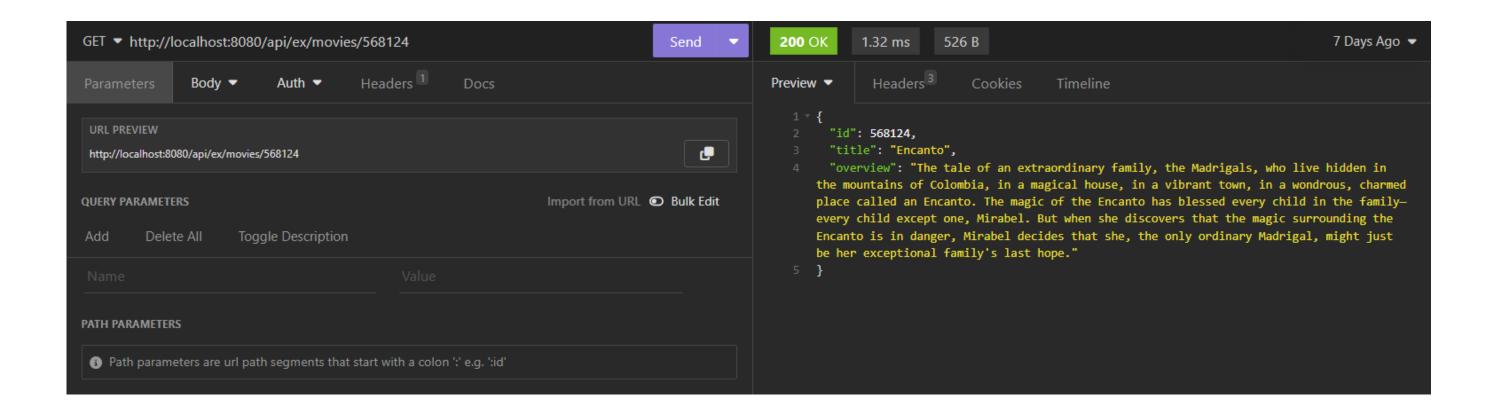






### Material API

Grace Material API is a Go-based REST API serving material requests, interfaced with Insomnia.







## Risk Analysis

Two primary concerns for the second iteration:

- dynamic UI within the scaffold
- authentication library support

Next steps: research and design before development to understand what I don't know.