

Packages for Developing Apps enabling Data Sovereignty and Privacy using the Solid Specification and the Flutter Web Framework

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A trio of interoperable Flutter/Dart packages for building privacy-first applications that connect to Solid POD servers — enabling secure personal data vaults, Solid-OIDC authentication, and a full-featured UI scaffold for cross-platform apps.

[solidpod v0.12.4](#) [solidui v0.3.20](#) [solid_auth v0.1.29](#)

Solid (Social Linked Data)

A W3C specification for decentralised data management. Users store data in **PODs** (Personal Online Datastores) and explicitly control who can read or write to them.

- Data is separated from applications
- User-controlled, fine-grained access permissions
- Interoperable across all Solid-compliant apps
- Linked data format (RDF / Turtle)

Flutter

Google's open-source UI framework using the **Dart** language. A single codebase compiles to Web, Android, iOS, macOS, Linux and Windows — delivering multi platform apps that access Solid Pods via standard HTTP APIs.

- Android • iOS • Linux • macOS • Windows • Web
- Flutter SDK \geq 3.2.3 • Dart compatible
- Packages [pub.dev](#)
- MIT Licence — free & open source software
- Publisher [Togaware.com](#)

Quick Start

Setup a new Flutter project with **solidui** SolidScaffold, a convenient Scaffold replacement that provides responsive navigation components, file management capabilities, security key handling, and authentication features specifically designed for Solid applications interacting with a user's personal online data store:

```
dart pub add solidui
```

Try out the file browser app **filepod** package or the demo app in **solidui**:

```
git clone https://github.com/anusii/filepod.git
git clone https://github.com/anusii/solidui.git
```

Additionally add these essential packages to your **pubspec.yaml** for a Solid based app:

```
solidpod: ^0.12.4
solidui: ^0.3.21
```

Optionally add **rdflib** for RDF parsing:

```
rdflib: ^0.2.12
```

solidui

v0.3.21

1.98k downloads • 160 pub points • 4 likes

Comprehensive Flutter UI library for streamlined setup of a Solid based app, with Scaffold replacement, responsive navigation, theme management, file management widgets, access permission management, and authentication screens.

- SolidScaffold — responsive navigation rail / drawer
- SolidLogin — fully customisable login screen with **solidpod** auth manager
- SolidFile — upload, download & browse POD files
- GrantPermissionUi — manage & query permissions.
- Queryable access permission history.
- Status bar: server, login & key state
- Light / dark theme toggle built in
- Adaptive layout for mobile to wide screens.

pubspec.yaml:

```
solidui: ^0.3.20
```

<https://pub.dev/packages/solidui>

solidpod

v0.12.4

2.6k downloads • 160 pub points • 5 likes

Core POD operations library — read, write, encrypt and permissions functions to interact with personal data vaults hosted on any Solid server.

- Manages user authentication against Solid servers with **solid_auth**
- Encrypted read / write of Turtle (.ttl) files
- Fine-grained ACL permission management through grant & revoke of permissions
- Access sharing of encrypted resources public key cryptography
- Large file upload / download / deletion
- Security key lifecycle management
- AES encryption and RSA key-pair generation

pubspec.yaml:

```
solidpod: ^0.12.4
```

<https://pub.dev/packages/solidpod>

solid_auth

v0.1.29

3.26k downloads • 150 pub points • 7 likes

Solid-OIDC authentication flow built on OpenID Connect 1.0 — supports Android, iOS, Desktop and Web, with DPoP token generation for secure resource access.

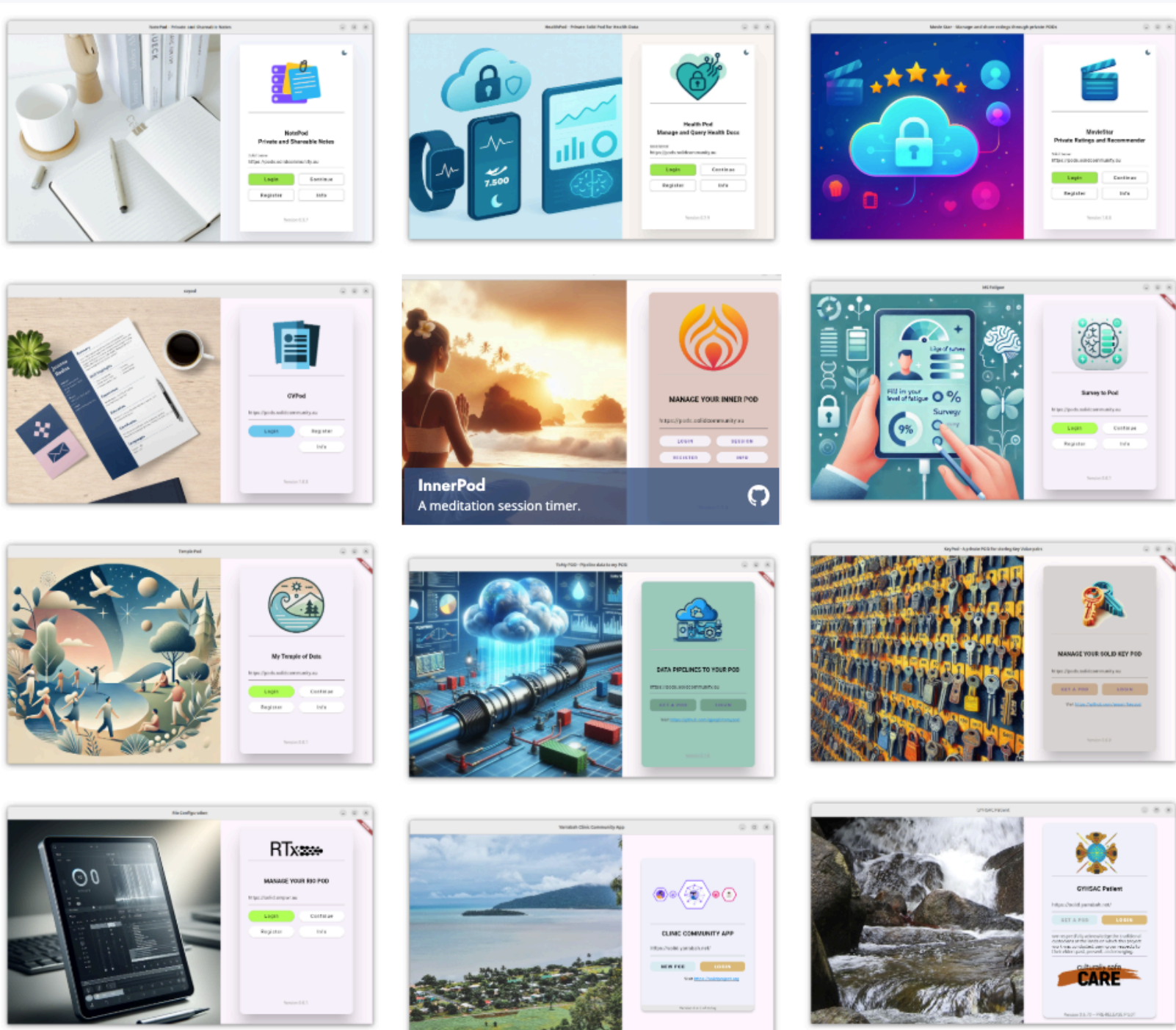
- Full Solid-OIDC authentication flow
- Authenticate a client application to a Solid POD
- Create DPoP tokens for accessing data inside a POD (RSA key pairs)
- Access public profile data of a POD using its WebID
- JWT decoding and verification
- Popup & redirect-loop authentication modes
- openid_client & dart_jsonwebtoken integrated
- Scoped access: openid, profile, offline_access

pubspec.yaml:

```
solid_auth: ^0.1.29
```

https://pub.dev/packages/solid_auth

Demo Apps



NotePod

Personal notes stored in your Solid POD

HealthPod

Health data sovereignty & sharing

InnerPod

Personal reflection & wellbeing journaling

FilePod

File browser for your secure and private data vault

TodoPod

A To Do list manager for your private data vault

MovieStar

Movie watchlist in your personal data vault

CommunityNews

Private/public news sharing in community

RoloPod

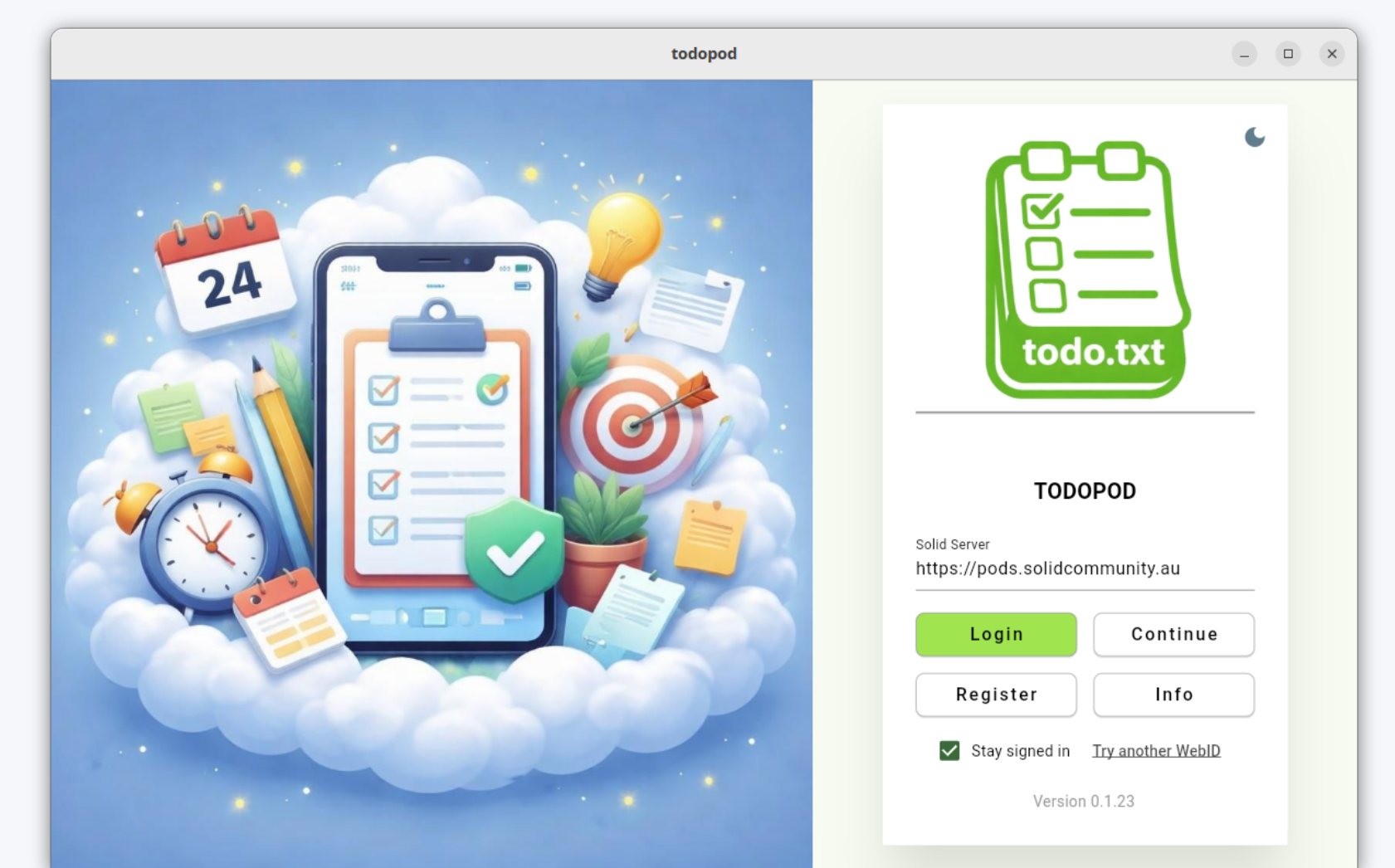
Address book stored securely and privately in your data vault

GeoPod

Place making stored in your data vault

MSFatigue

Privately monitor fatigue levels and identify triggers of Multiple Sclerosis.



Explore the Apps



NotePod

notepod.solidcommunity.au



TodoPod

todopod.solidcommunity.au



InnerPod

innerpod.solidcommunity.au



SolidCommunity.au

solidcommunity.au