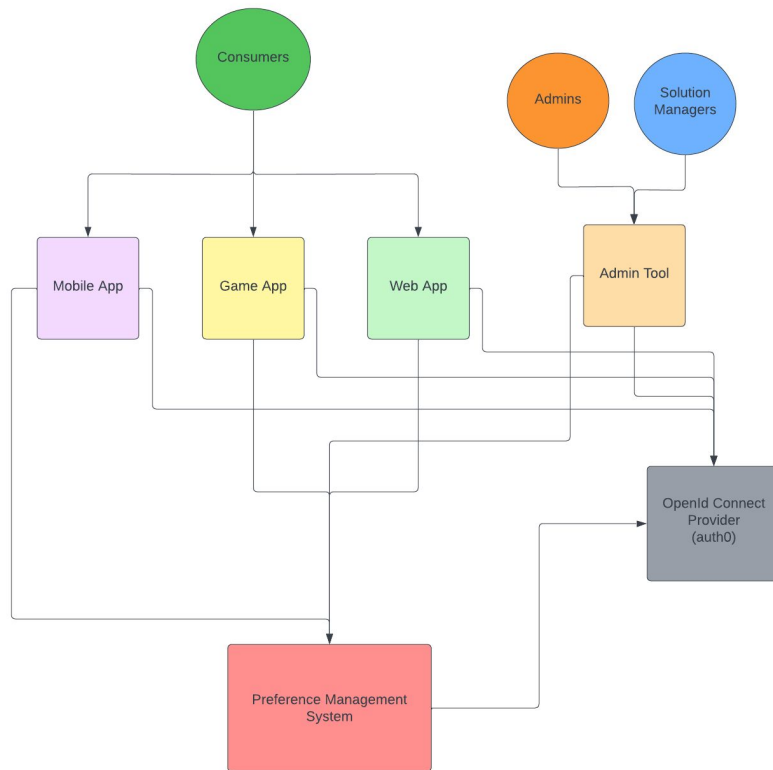


The background is a solid red color with a pattern of overlapping triangles in various shades of red, orange, and yellow. Some triangles are solid, while others are outlined in white. The pattern is more dense on the right side and sparser on the left.

Preference Manager

Nikos Larios

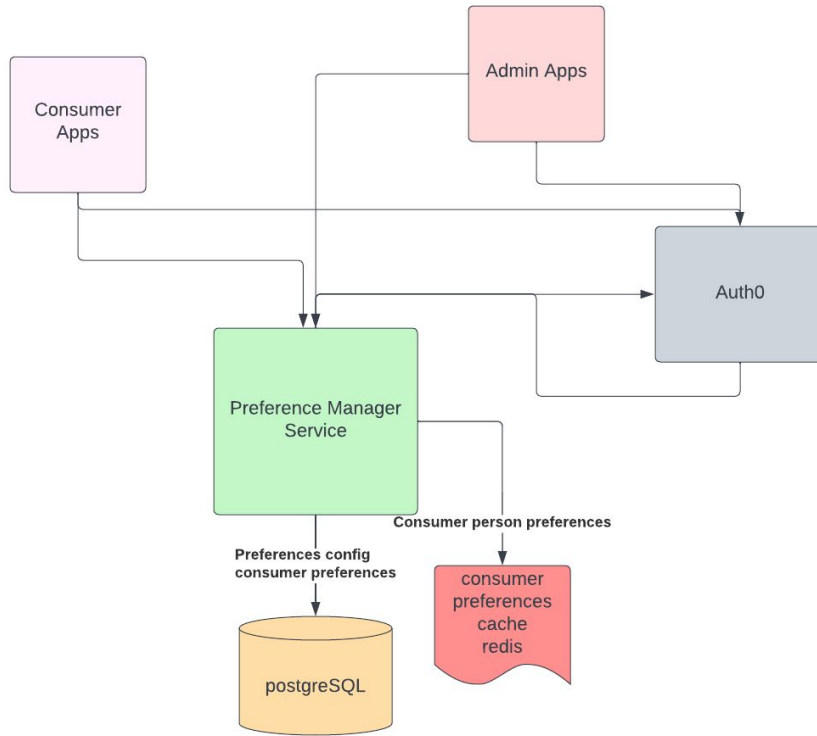
Preference Manager Use Case



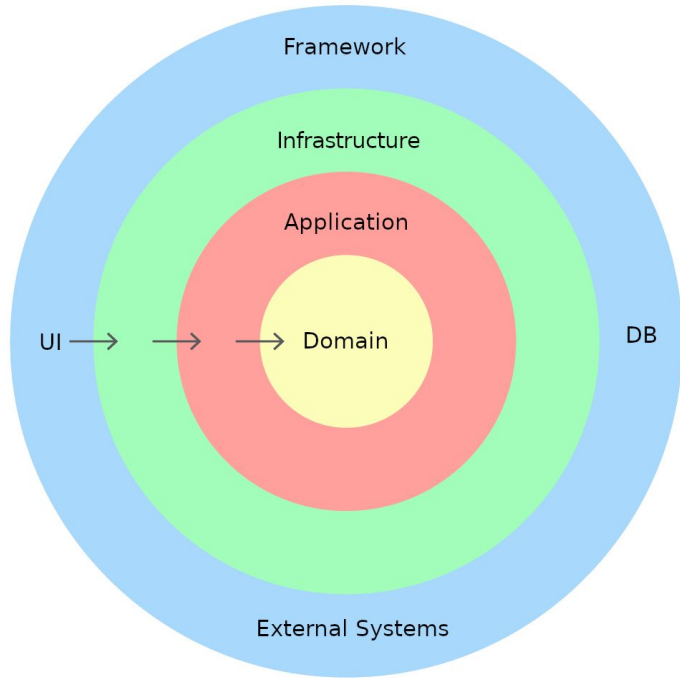
Centralized platform for preference management.

Client service authenticate the users and use JWT token to access the preference-manager

Architecture



Service architecture



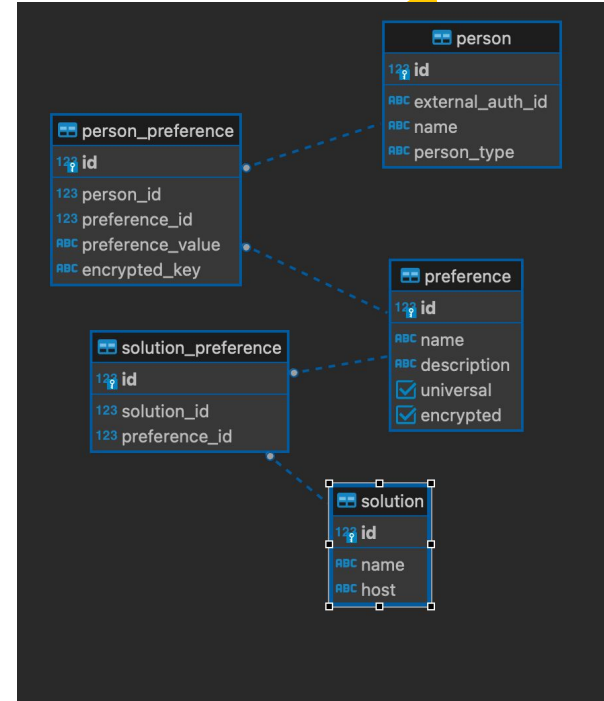
It has the following layers (class libraries):

- API
- UseCase (Application)
- Domain
- Infrastructure

Database schema and Domain

DOMAIN

- Preference (preference configuration)
- Person (User)
- Solution (Solution that preferences apply to)
- PersonPreference (Consumer preferences with values)



API design

PersonPreference

| | | | |
|------|---------------------------|---|---|
| GET | /persons/{externalAuthId} | ✓ | 🔒 |
| POST | /person-preferences | ✓ | 🔒 |
| PUT | /person-preferences/{id} | ✓ | 🔒 |

SolutionManagerPreferences

| | | | |
|------|--------------------------------------|---|---|
| POST | /solution-preferences | ✓ | 🔒 |
| POST | /solution-preferences/{id} | ✓ | 🔒 |
| GET | /solution-preferences/solutions/{id} | ✓ | 🔒 |

UniversalPreference

| | | | |
|------|-----------------------------|---|---|
| GET | /universal-preferences | ✓ | 🔒 |
| POST | /universal-preferences | ✓ | 🔒 |
| PUT | /universal-preferences/{id} | ✓ | 🔒 |



Scopes and Roles

List of Permissions (Scopes)

These are all the permissions (scopes) that this API uses.

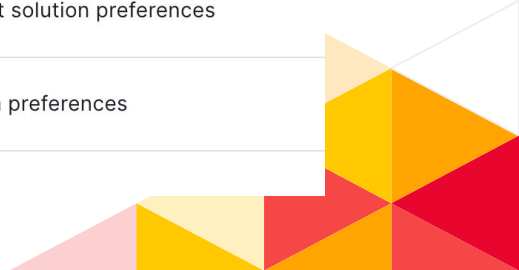
| Permission | Description |
|---|-------------------------------------|
| <code>read:universal_preferences</code> | Read universal preferences |
| <code>read:preferences</code> | Read preferences |
| <code>edit:universal_preferences</code> | Read and edit universal preferences |
| <code>read:consumer_preferences</code> | Read values of consumer preferences |
| <code>edit:consumer_preferences</code> | Read and edit consumer preferences |
| <code>edit:solution_preferences</code> | Read and edit solution preferences |
| <code>read:solution_preferences</code> | Read solution preferences |

Roles

- UniversalAdmin
- SolutionManager
- Consumer

I used only permissions to handle authorization

But in a future work can work with role, once the authentication is handled by preference-manager service



Acceptance Tests

The screenshot displays the Postman interface with the 'Runner' tab selected. The left sidebar shows a project named 'space' with a folder structure under 'Acceptance Tests Preference Manager' containing 'Admin', 'Solution Manager', and 'consumer'. The main area lists a 'RUN ORDER' of five tests, each with a checkbox, folder icon, and method: 'Authenticate admin' (POST), 'Add universal preference' (POST), 'get all universal preferences' (GET), 'Authenticate solution manager' (POST), 'Add solution preference' (POST), and 'Add person preference' (GET). The right sidebar shows 'Run Settings' with 'Iterations' set to 1, 'Delay' set to 0 ms, and 'Data' set to 'Select File'. Under 'Advanced settings', 'Save responses' is unchecked, 'Keep variable values' is checked, 'Run collection without using stored cookies' is unchecked, and 'Save cookies after collection run' is checked. A red button at the bottom right says 'Run Acceptance Tests Preferenc...'. The top navigation bar includes 'Overview' and 'Runner' tabs, and a 'No' button on the far right.

space New Import Overview Runner + ... No

Acceptance Tests Preference Manager

- > Admin
- > Solution Manager
- > consumer

RUN ORDER Deselect All Select All Reset

- ☒ > POST Authenticate admin
- ☒ > POST Add universal preference
- ☒ > GET get all universal preferences
- ☒ > POST Authenticate solution manager
- ☒ > POST Add solution preference
- ☒ > GET Add person preference

Run Settings

Iterations

1

Delay

0 ms

Data

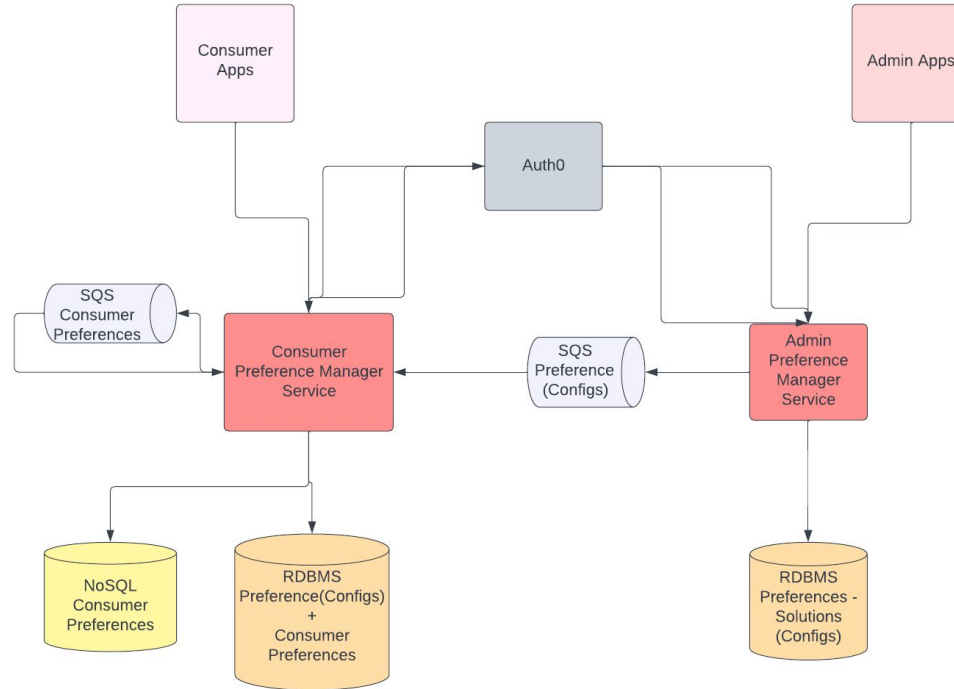
Select File

Advanced settings

- ☐ Save responses ⓘ
- ☒ Keep variable values ⓘ
- ☐ Run collection without using stored cookies
- ☒ Save cookies after collection run ⓘ

Run Acceptance Tests Preferenc...

Future work and Optimisation



Thank you