Preference Manager

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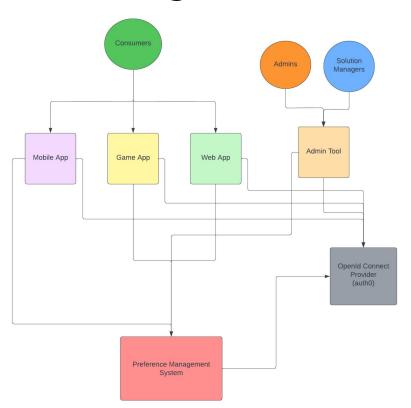
Preference Manager Use Case

Centralized platform for preference management.

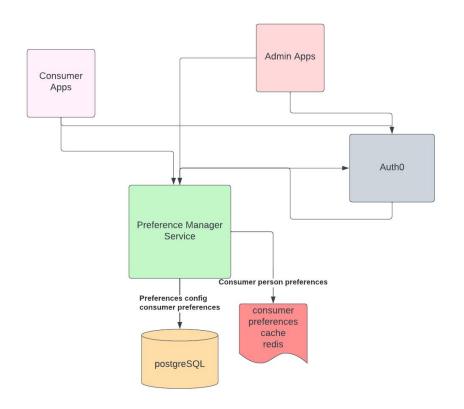
The system provides an API that allows authorised Apps to create Preferences configurations

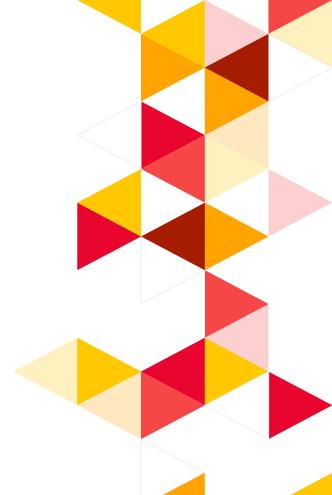
and also fills these preferences with Consumer data.

Client services authenticate the users and use JWT tokens to access preference-manager

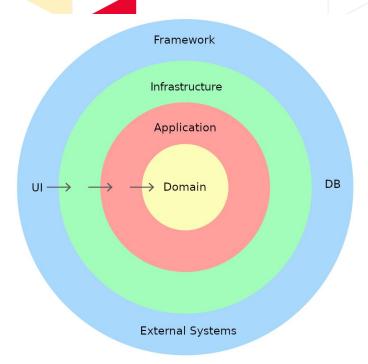


Architecture





Service architecture



It has the following layers (class libraries):

- API
- UseCase (Application)
- Domain
- Infrastructure

Database schema and Domain

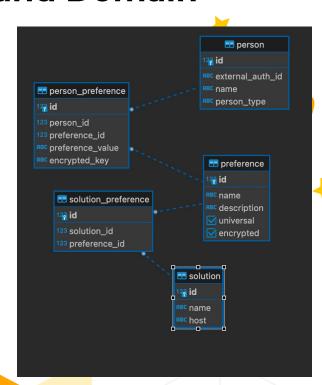
DOMAIN

Preference (preference configuration)

• Person (User)

Solution (Solution that preferences apply to)

PersonPreference (Consumer preferences with values)



API design





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

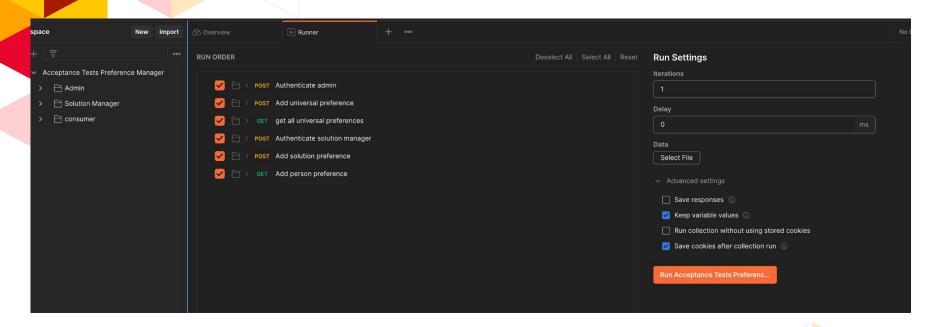
Scopes and Roles

List of Permissions (Scopes)

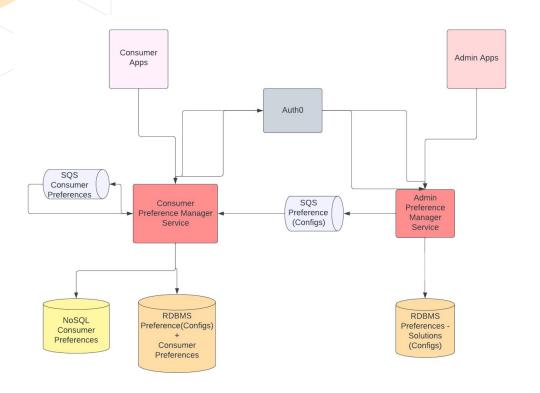
These are all the permissions (scopes) that this API uses.

Permission	Description
read:universal_preferences	Reed universal preferences
read:preferences	Read preferences
edit:universal_preferences	Read and edit universal preferences
read:consumer_preferences	Read values of consumer preferences
edit:consumer_preferences	Read and edit consumer preferences
edit:solution_preferences	Read and edit solution preferences
read:solution_preferences	Read solution preferences

Acceptance Tests



Future work and Optimisation



Thank you