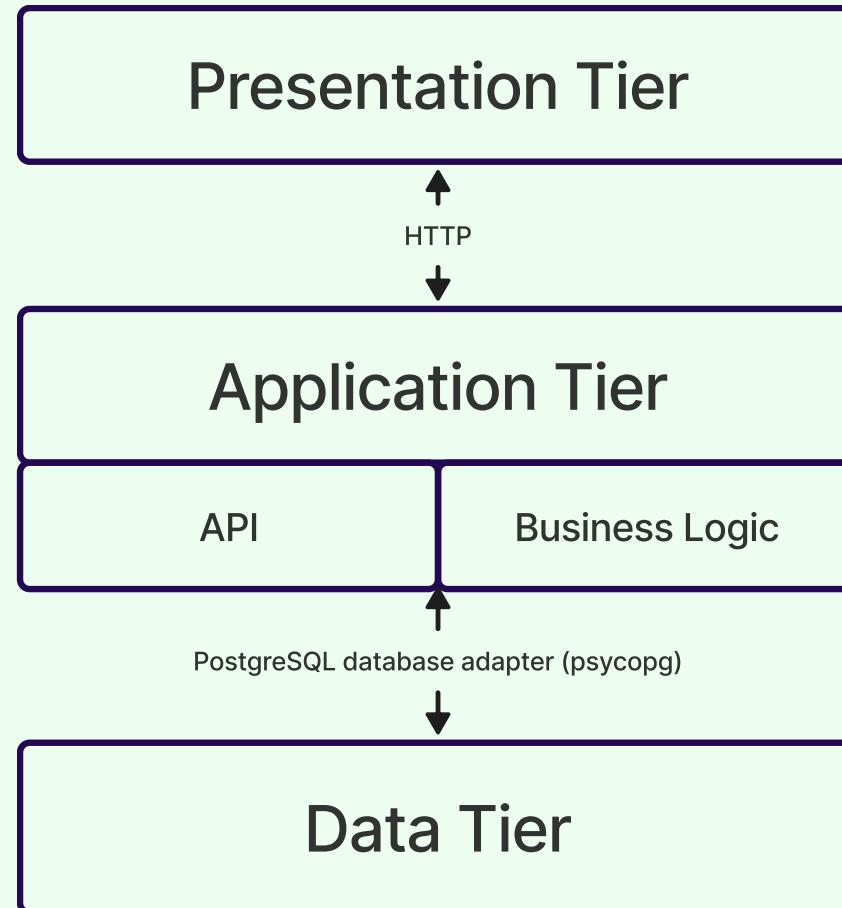




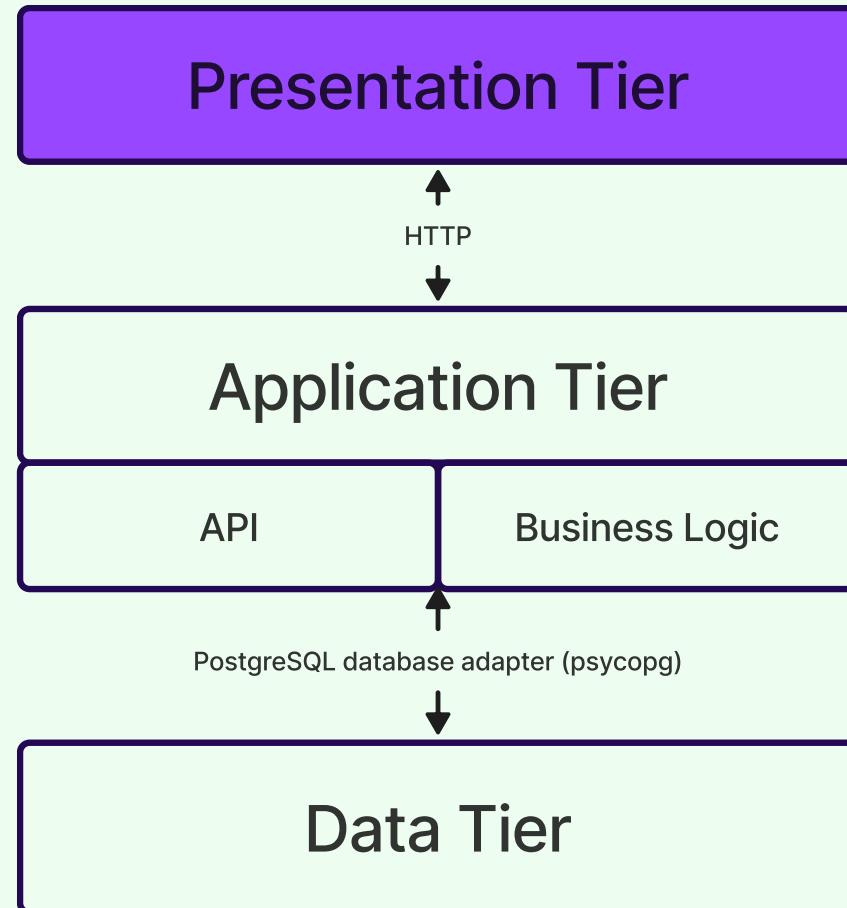
Design presentation

Bennet Hörmann, Salomo Hummel, Simeon Schrape, Erik Wu, Udo Zucker

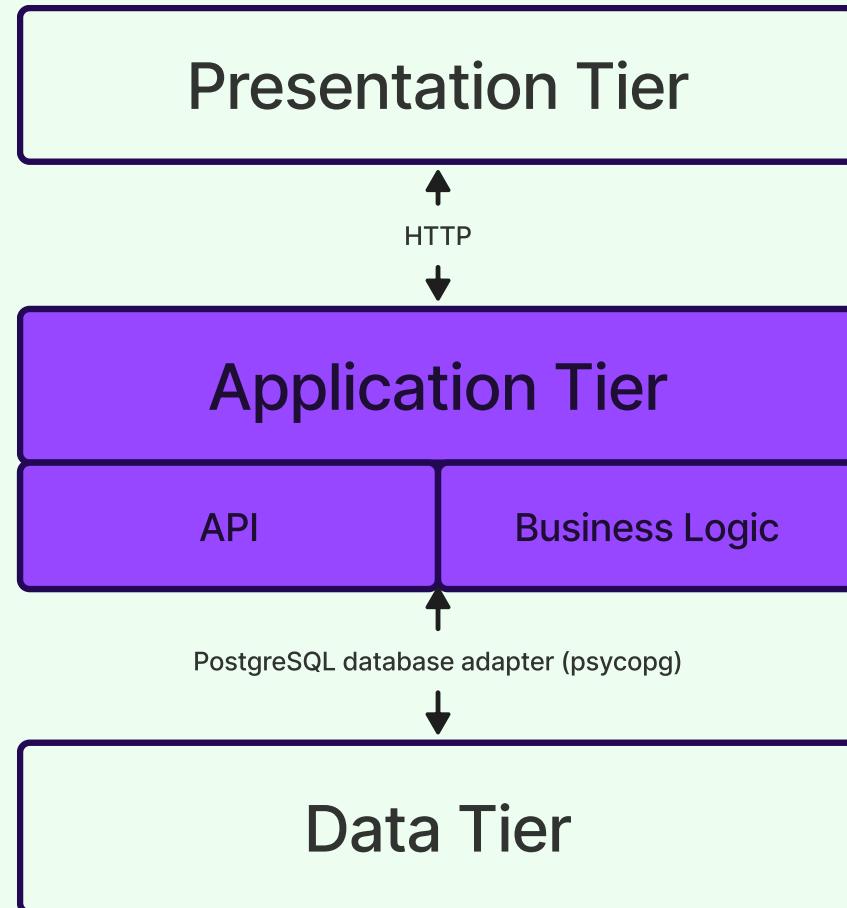
Basic structure – 3 Tier Architecture



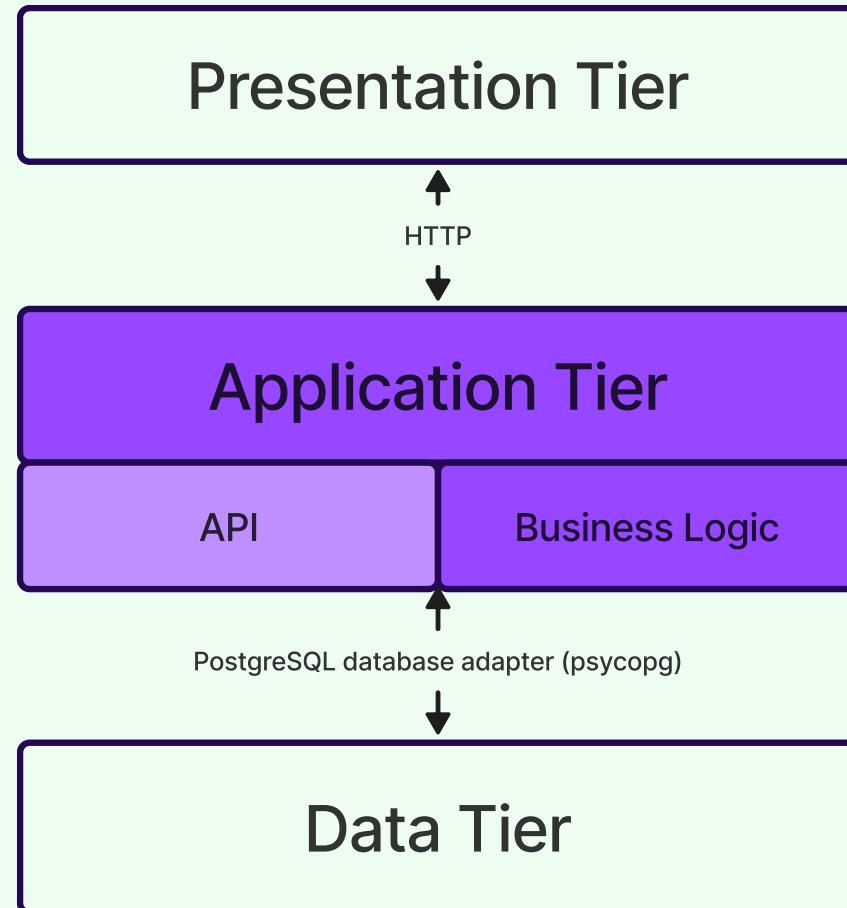
3 Tier Architecture – Presentation Tier



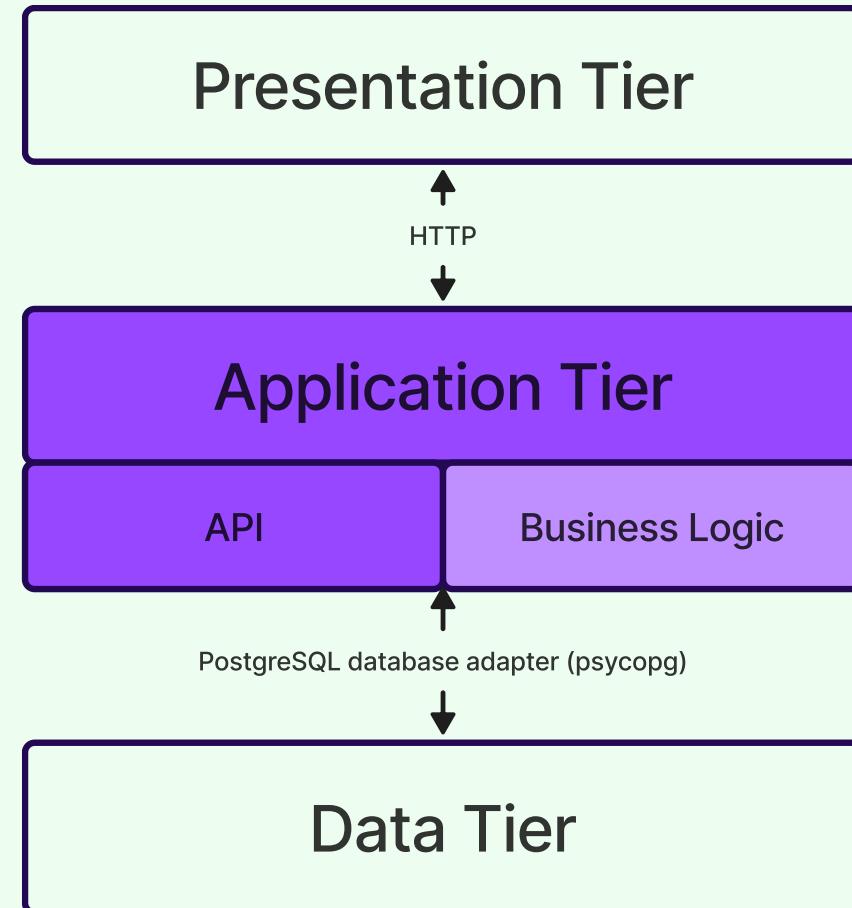
3 Tier Architecture – Application Tier



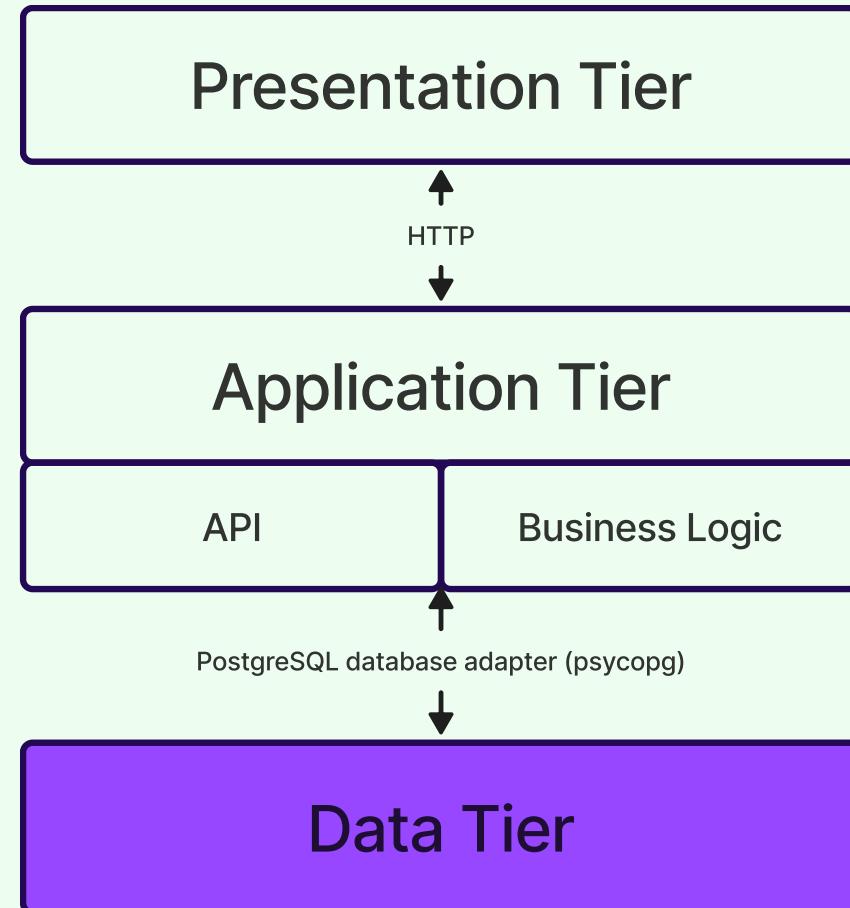
3 Tier Architecture – Application Tier (API)



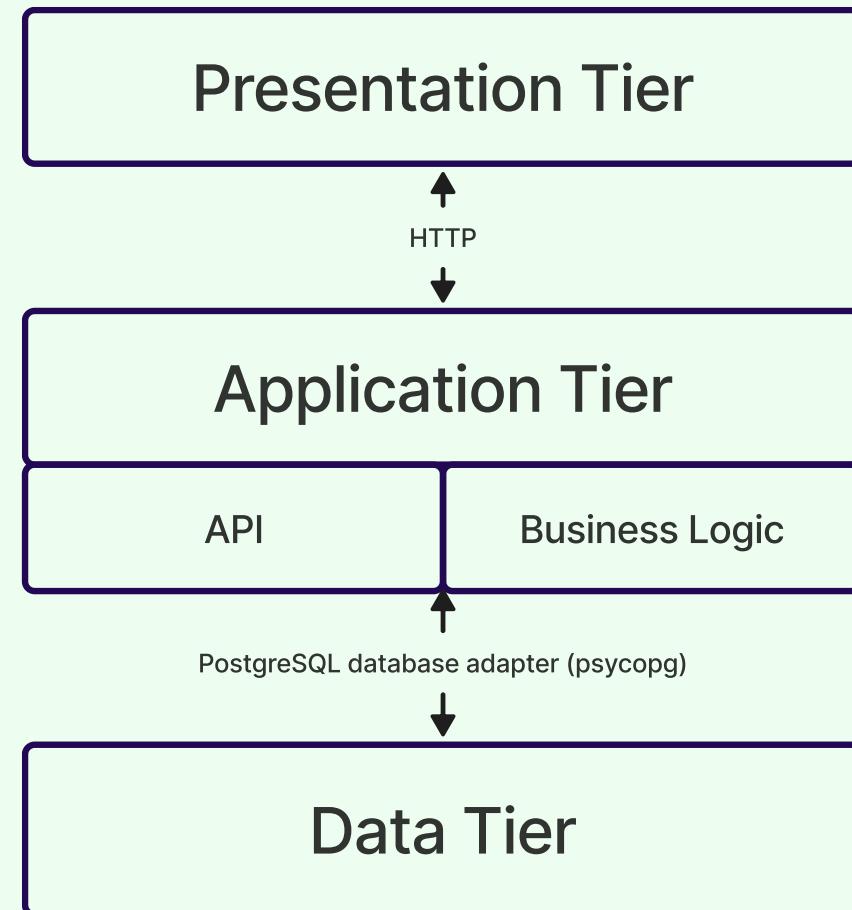
3 Tier Architecture – Application Tier (Business Logic)



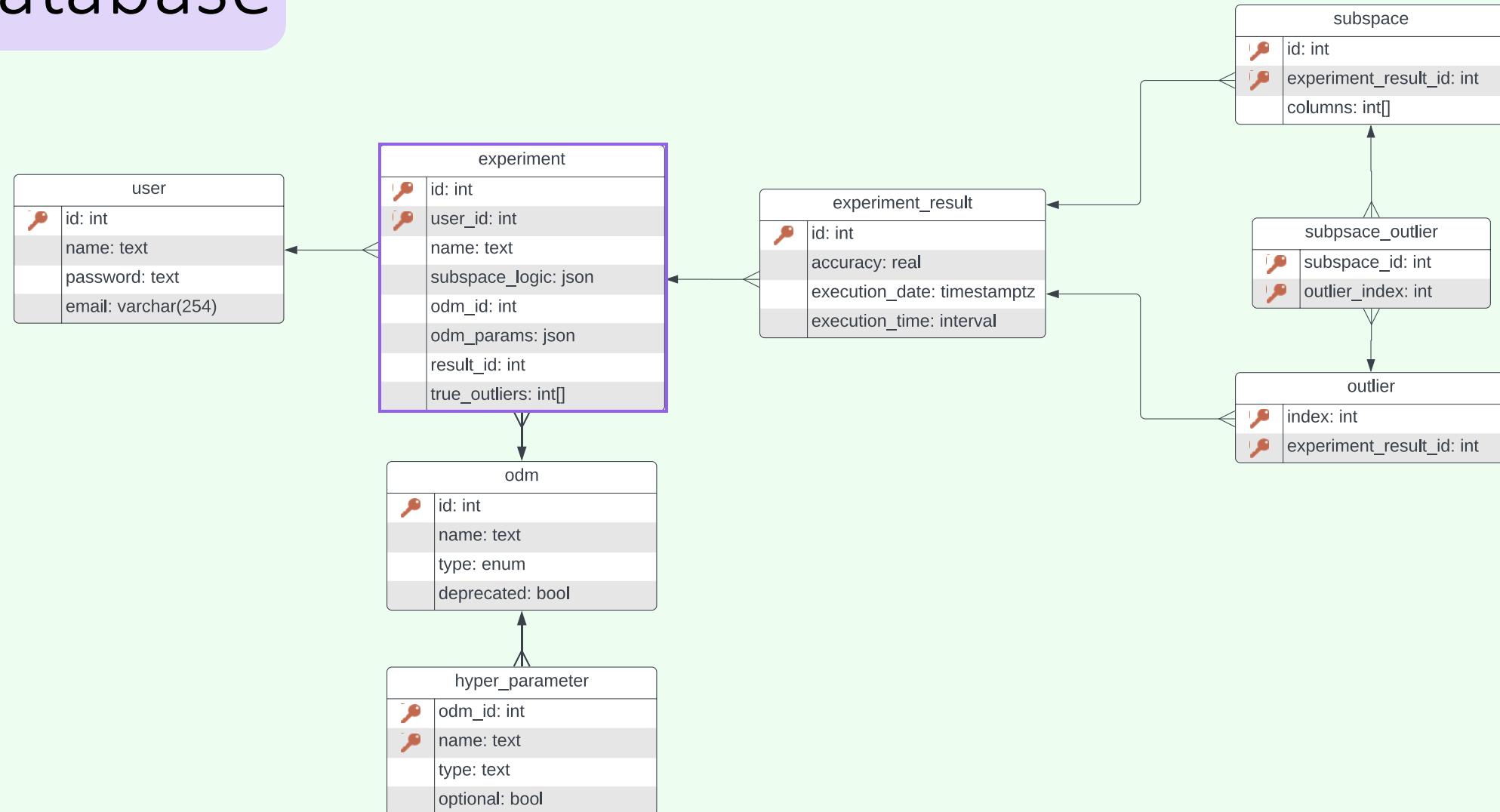
3 Tier Architecture – Data Tier



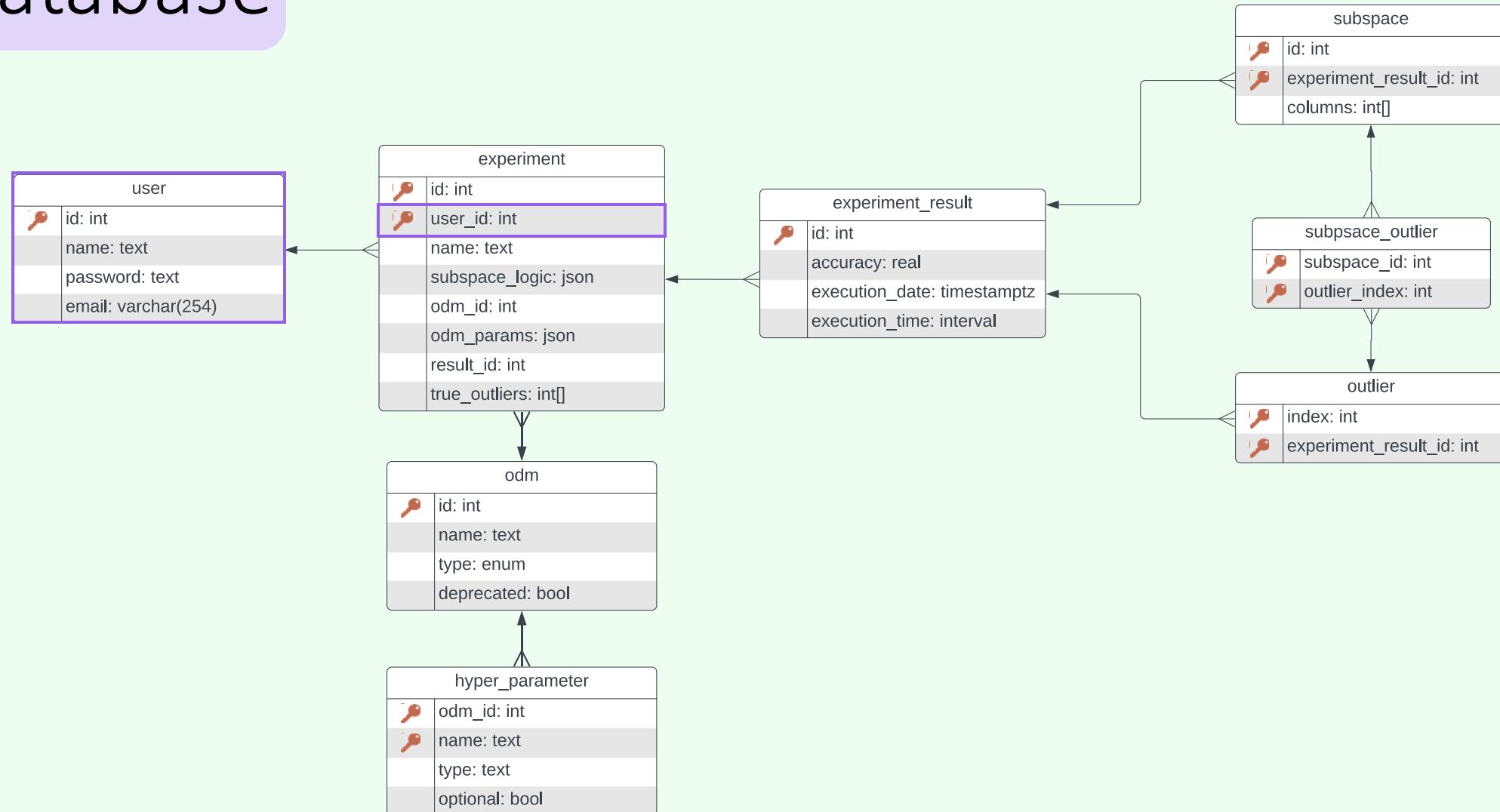
3 Tier Architecture



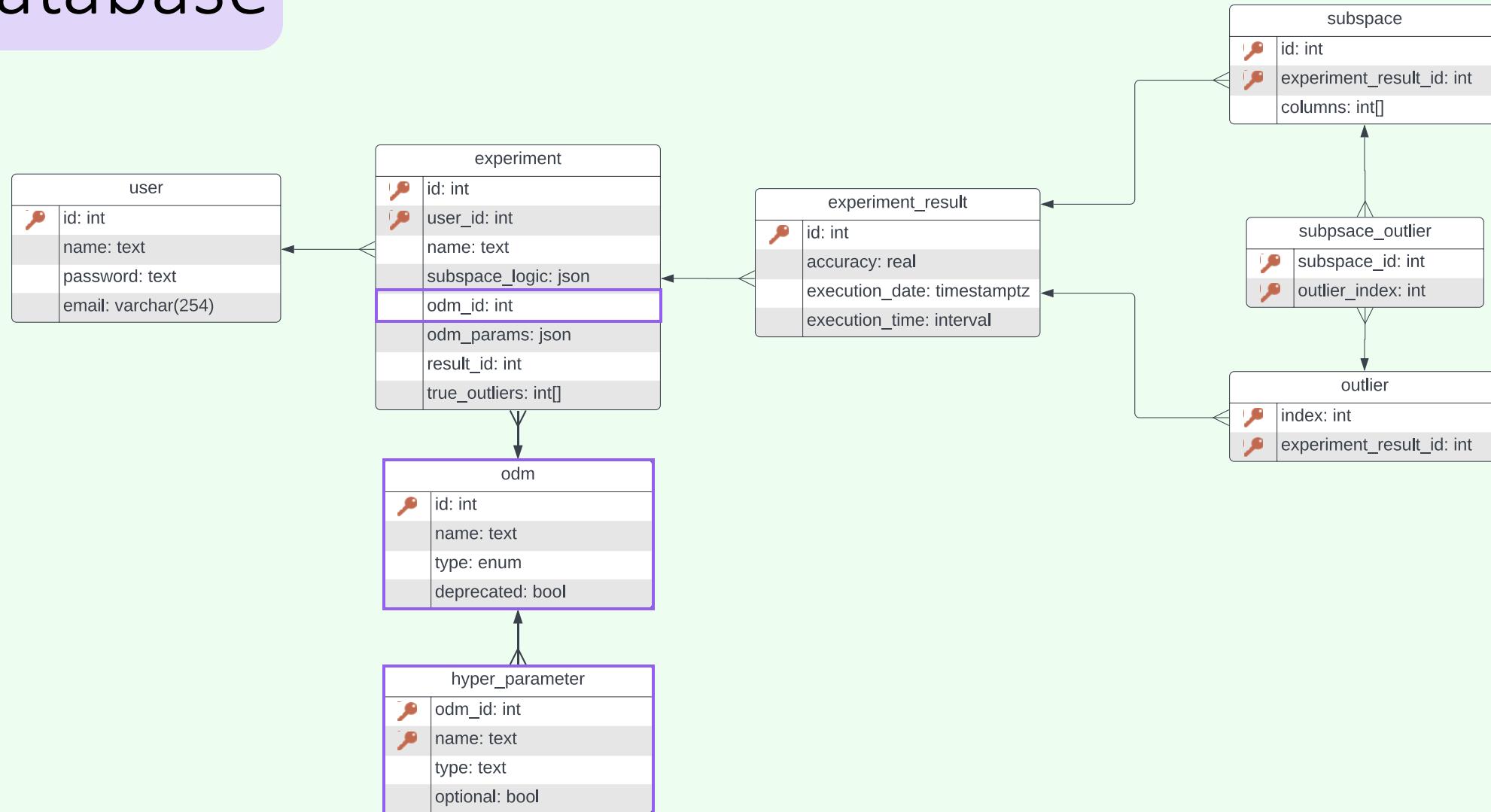
Database



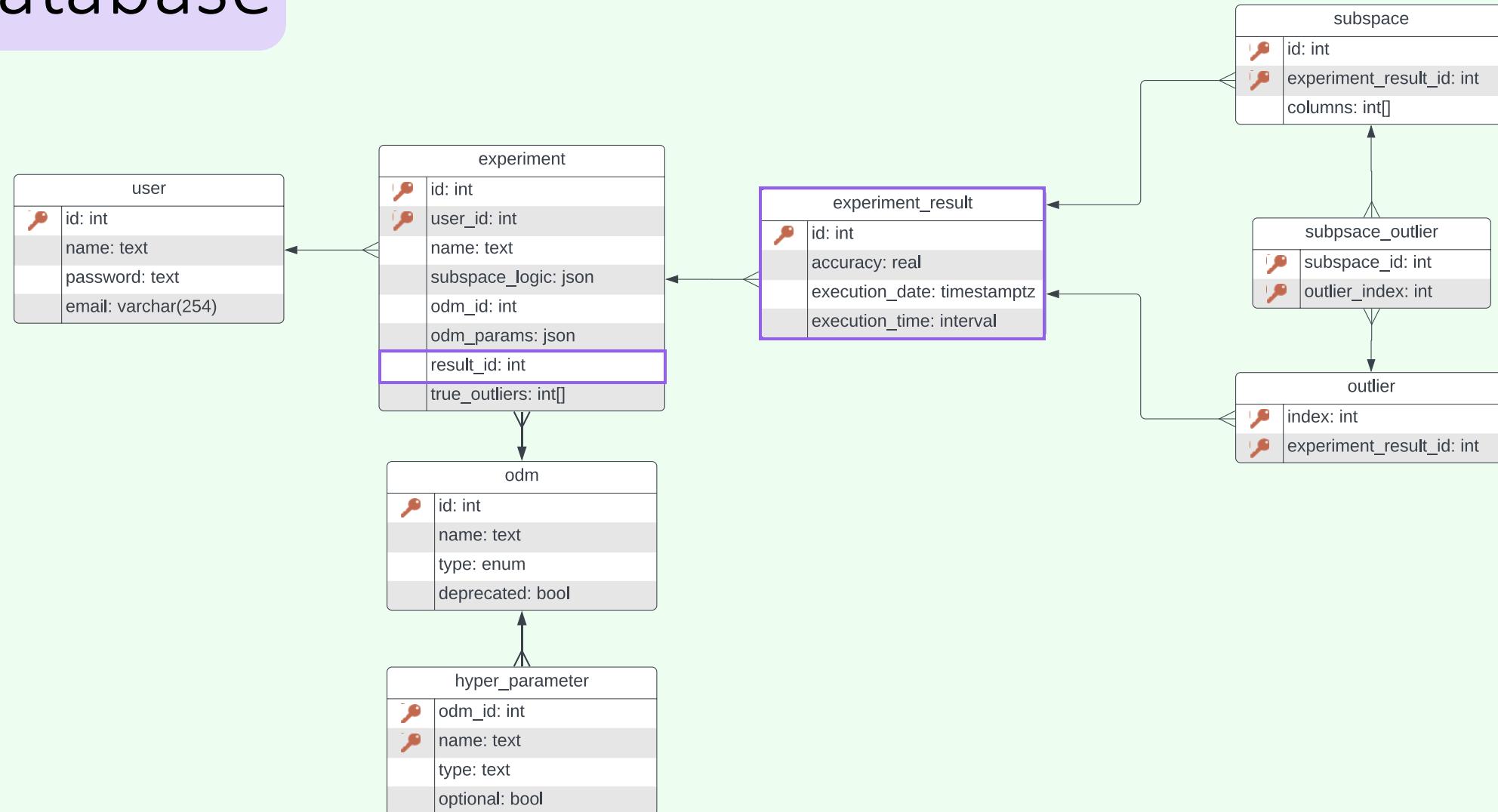
Database



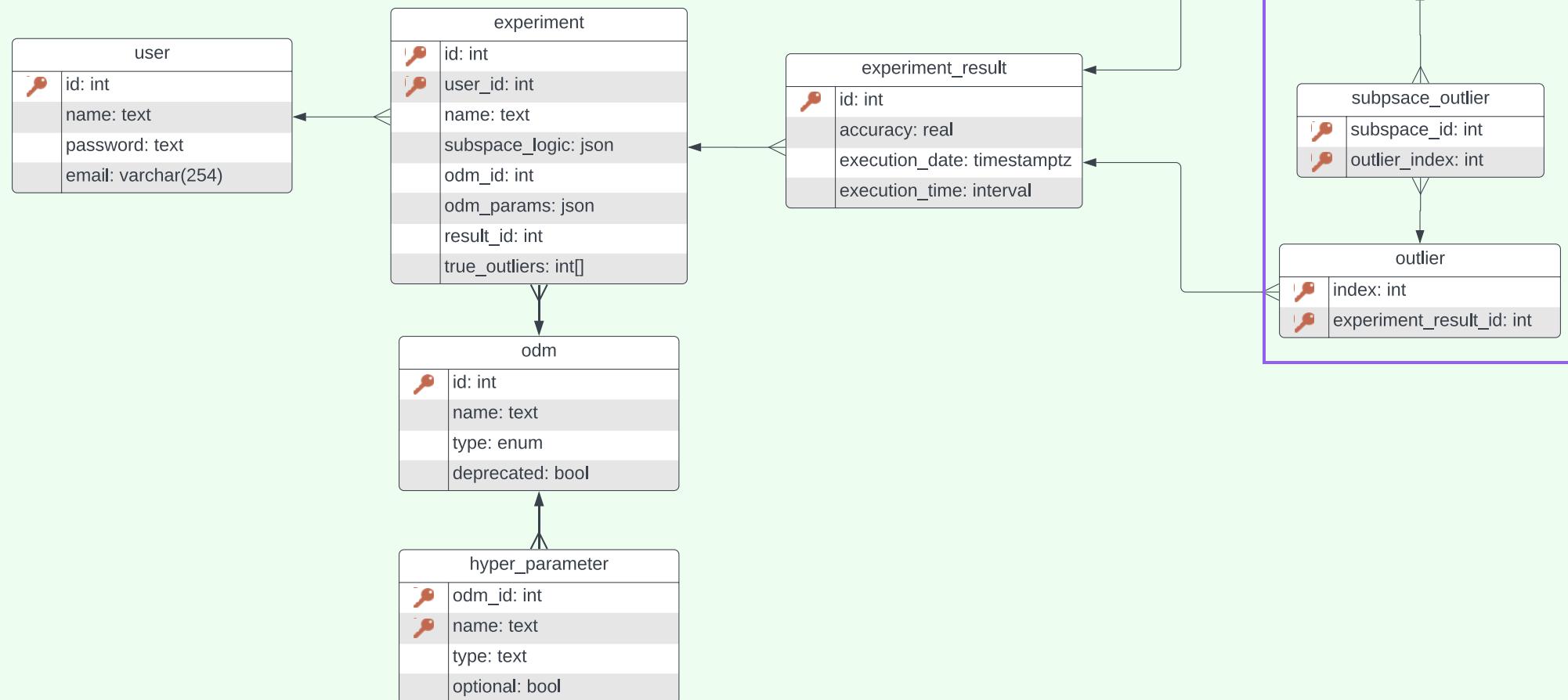
Database



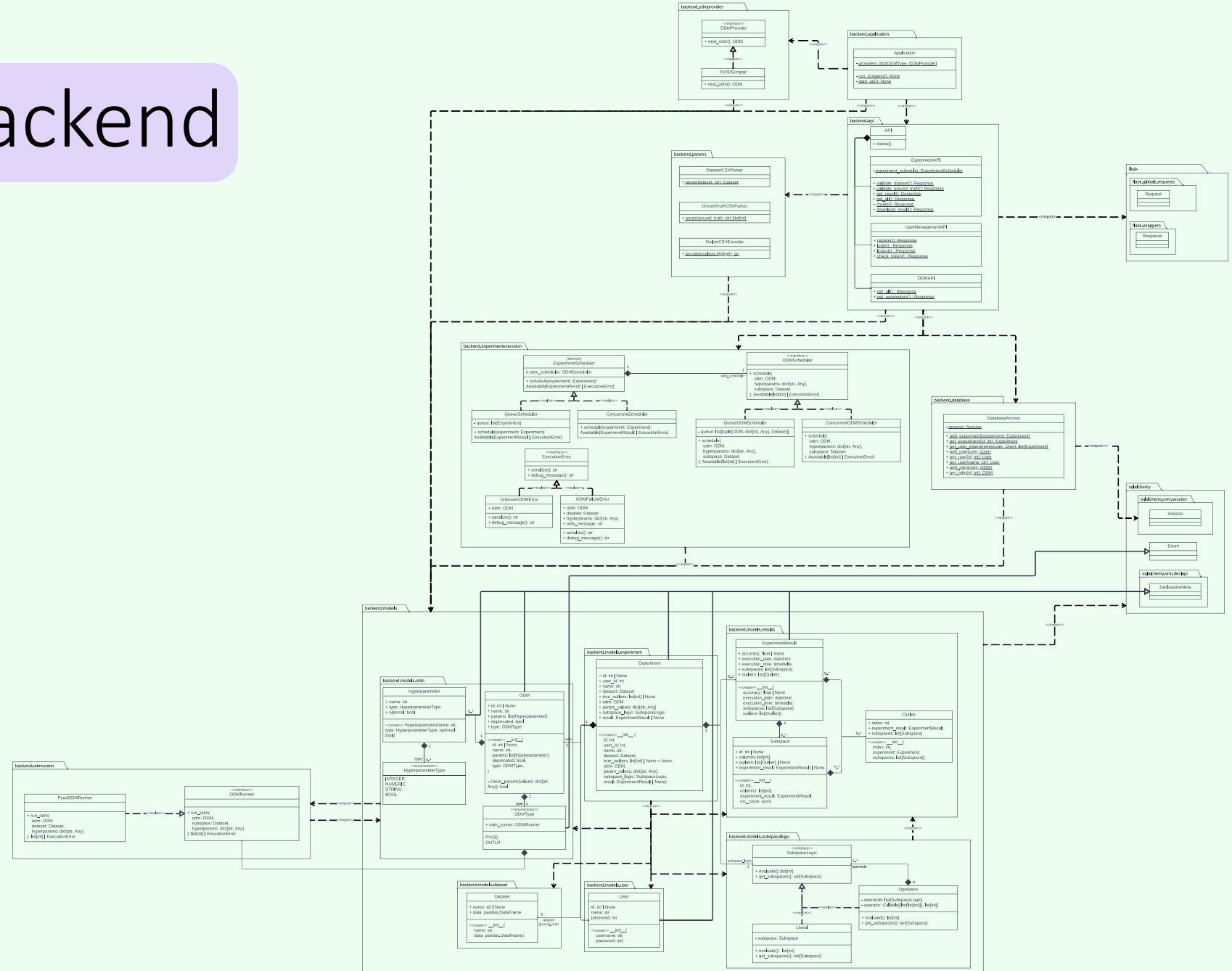
Database



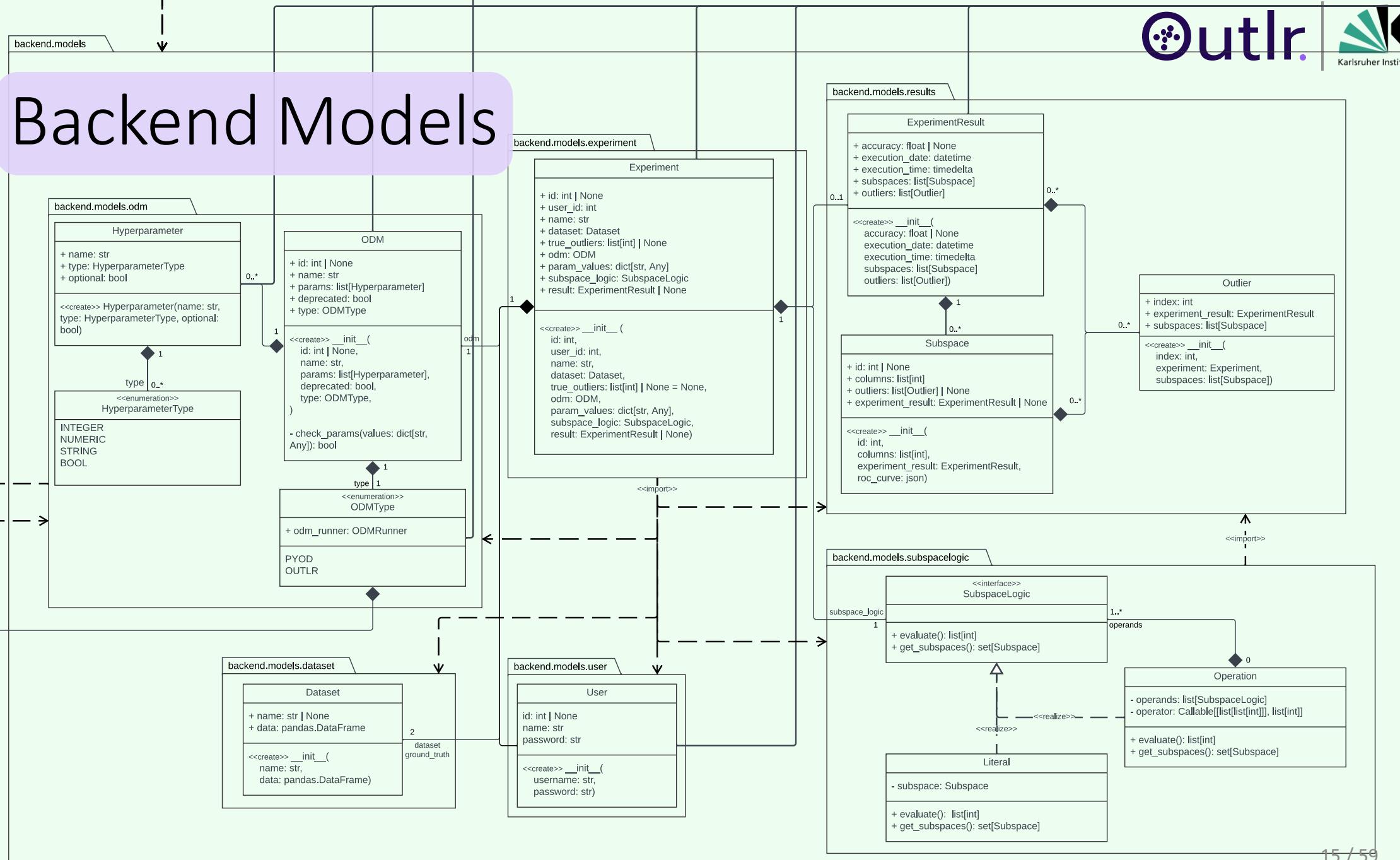
Database



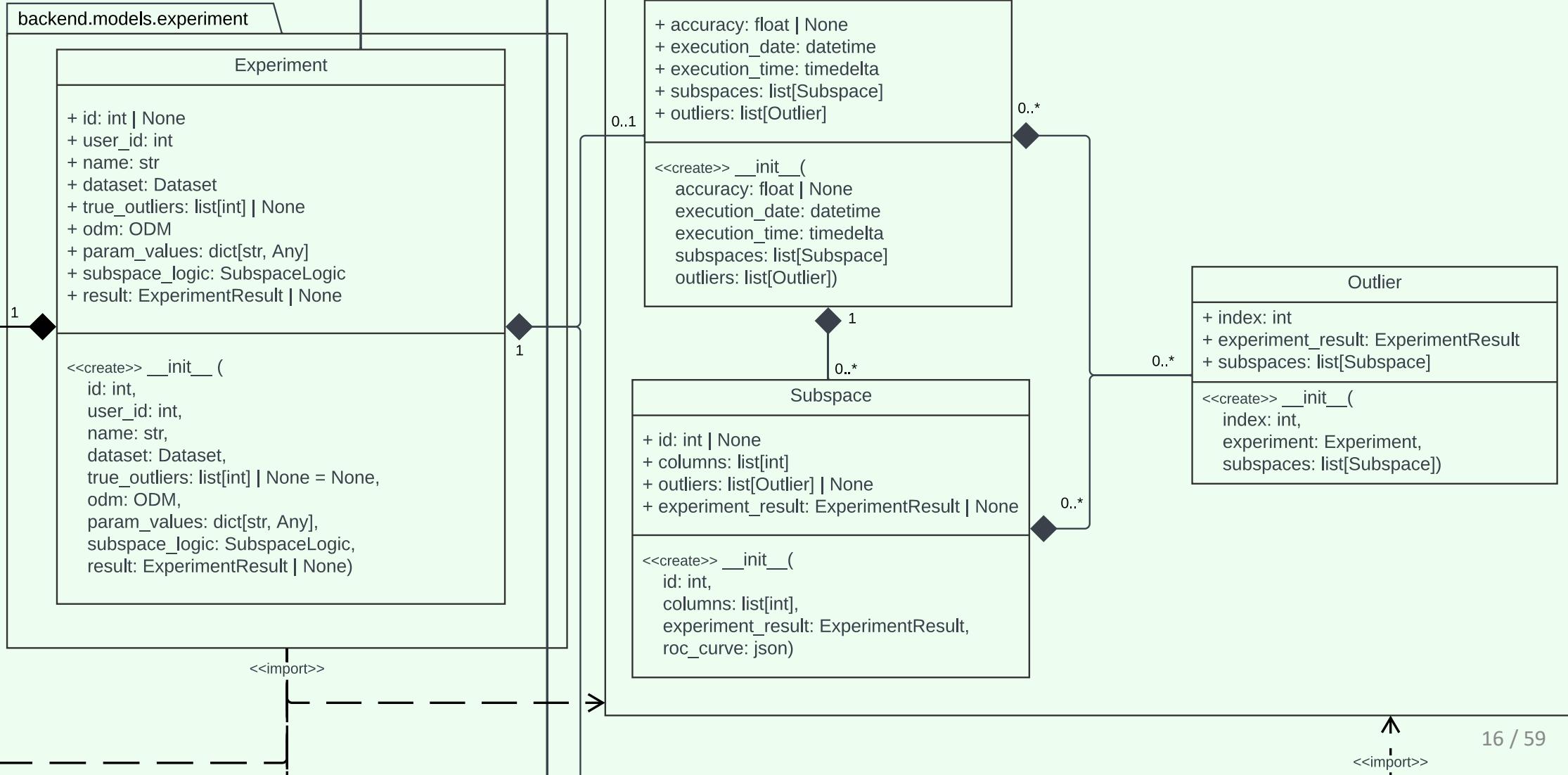
Backend



Backend Models

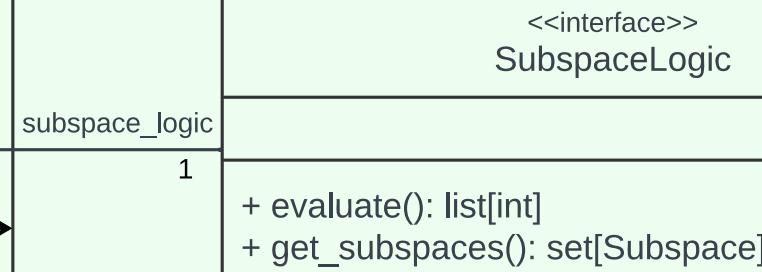


Backend Models



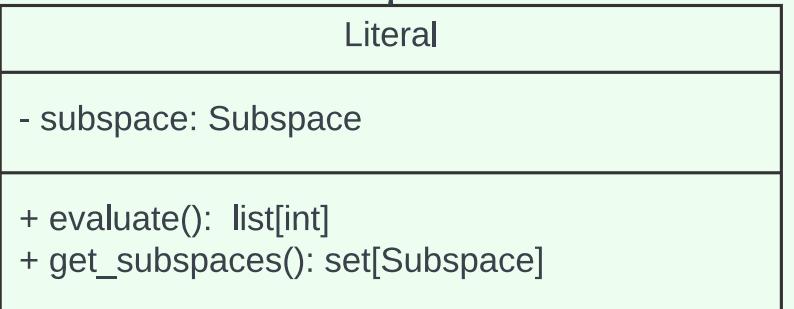
Backend Models

backend.models.subspacelogic



Composite Pattern
SubspaceLogic is a tree of
Literals and Operations

`<<realize>>`



`<<import>>`

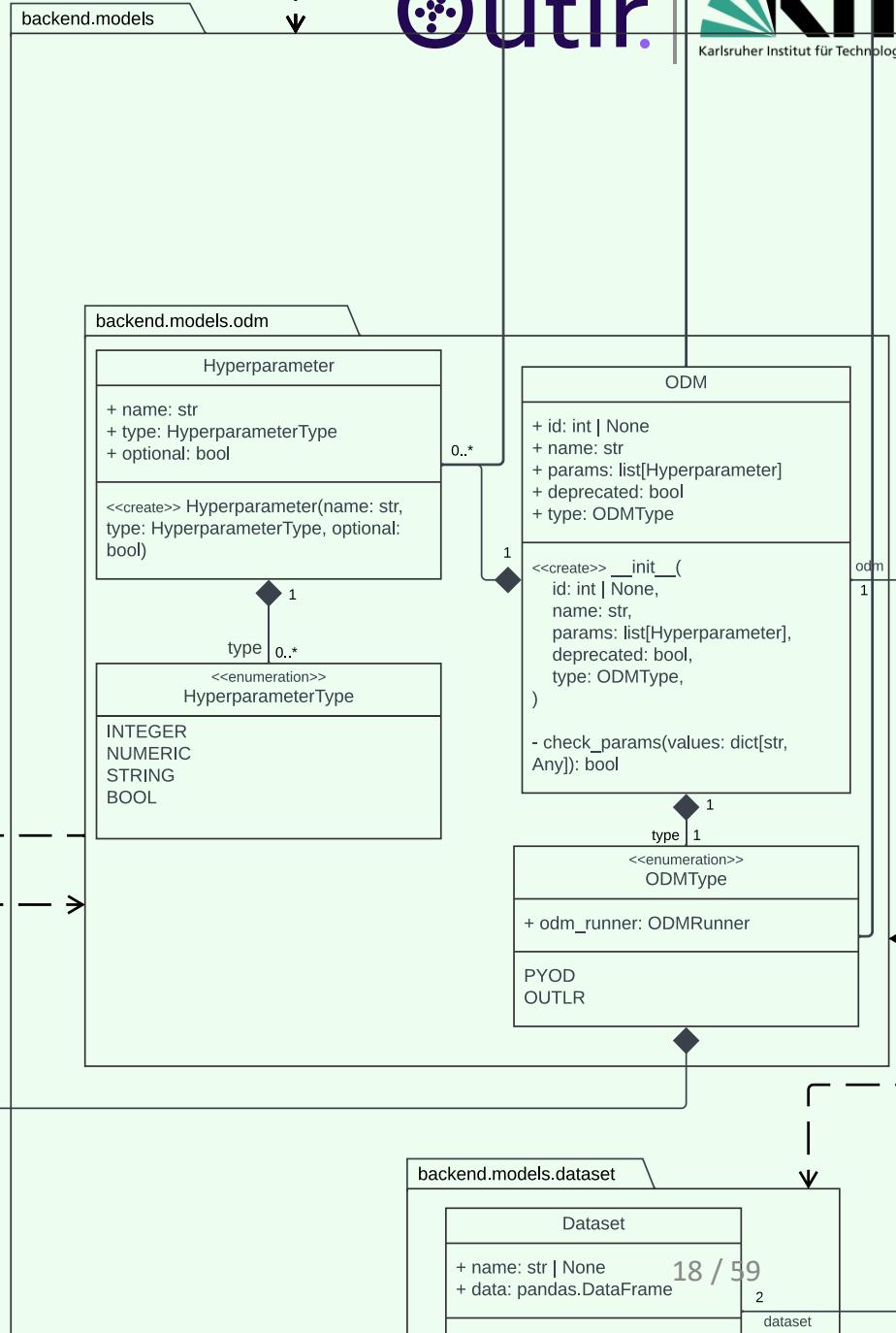
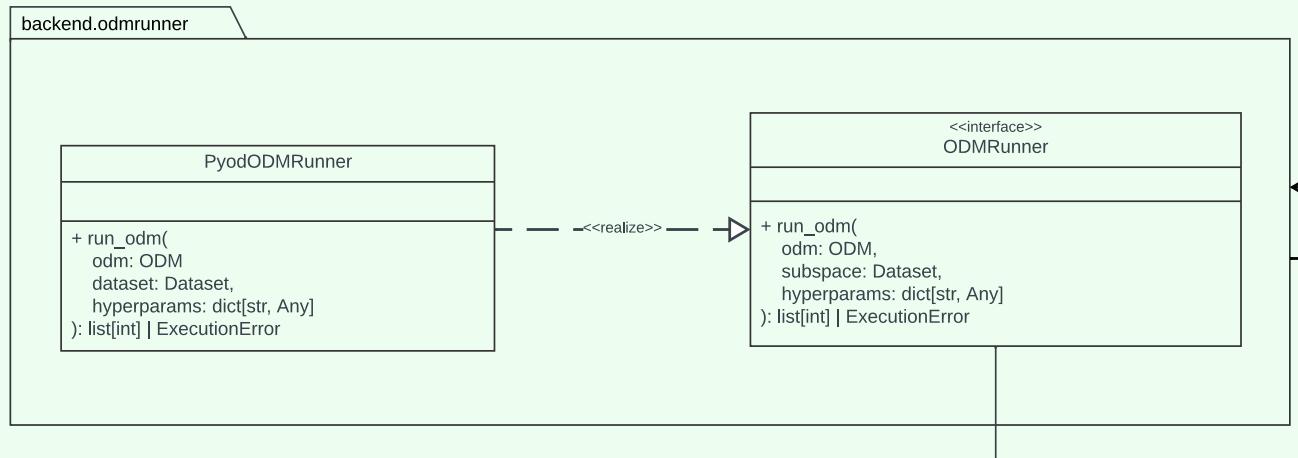
Reminder

[0, 1, 2, 3, 4] and [4, 5, 6, 7]

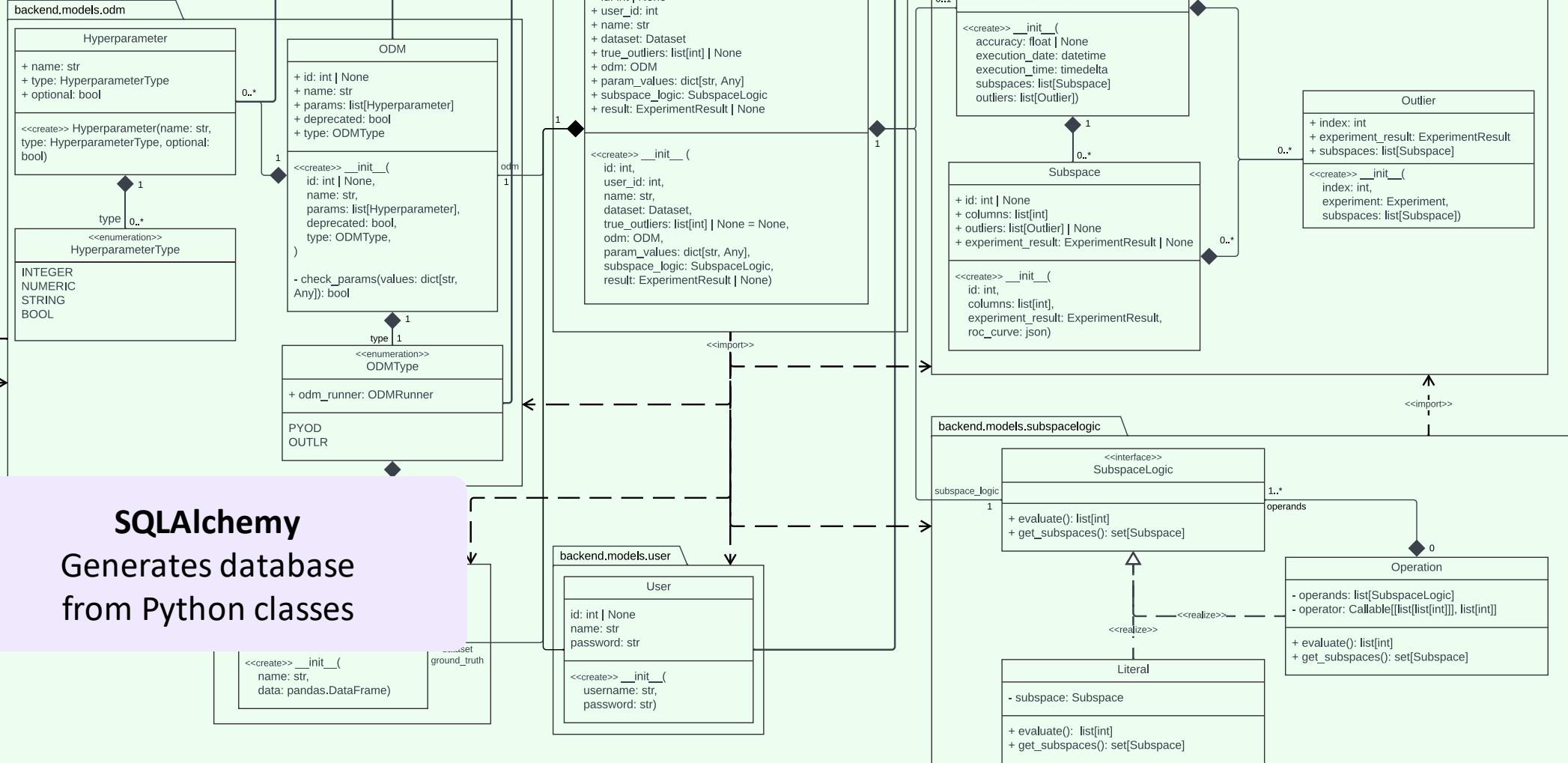
Backend Models

Adapter Pattern

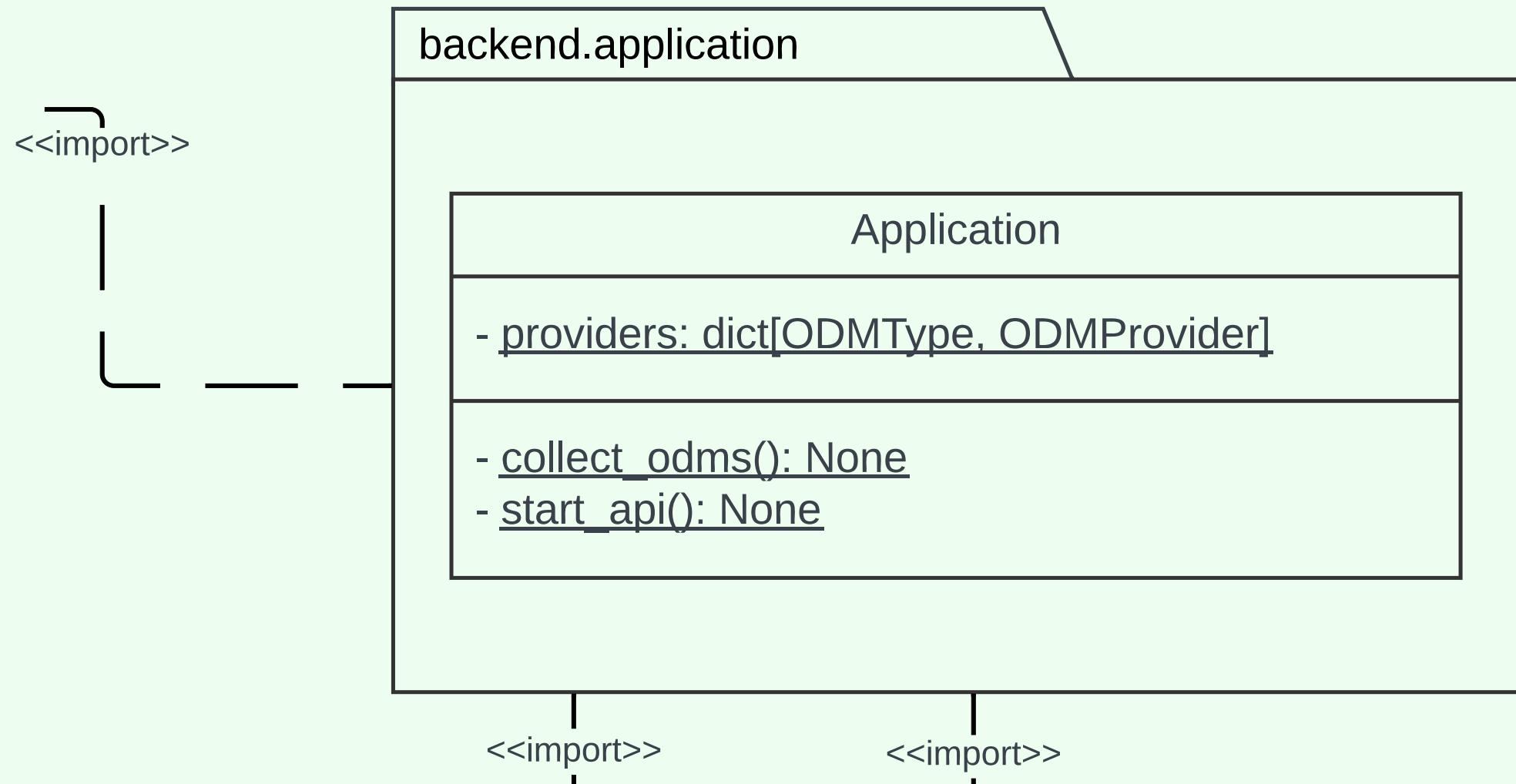
Allows new kinds of ODMs to be added in the future



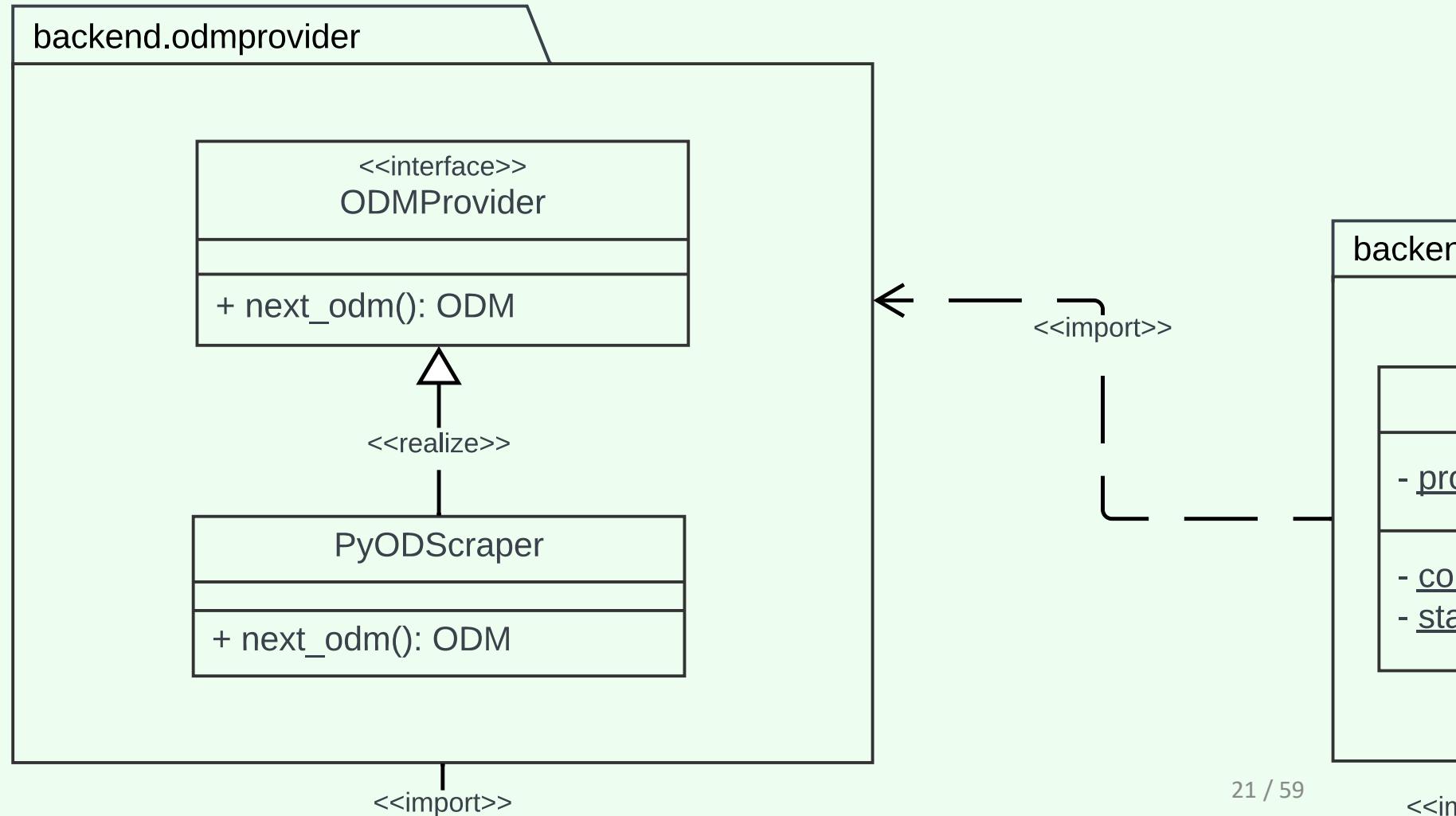
Backend Models



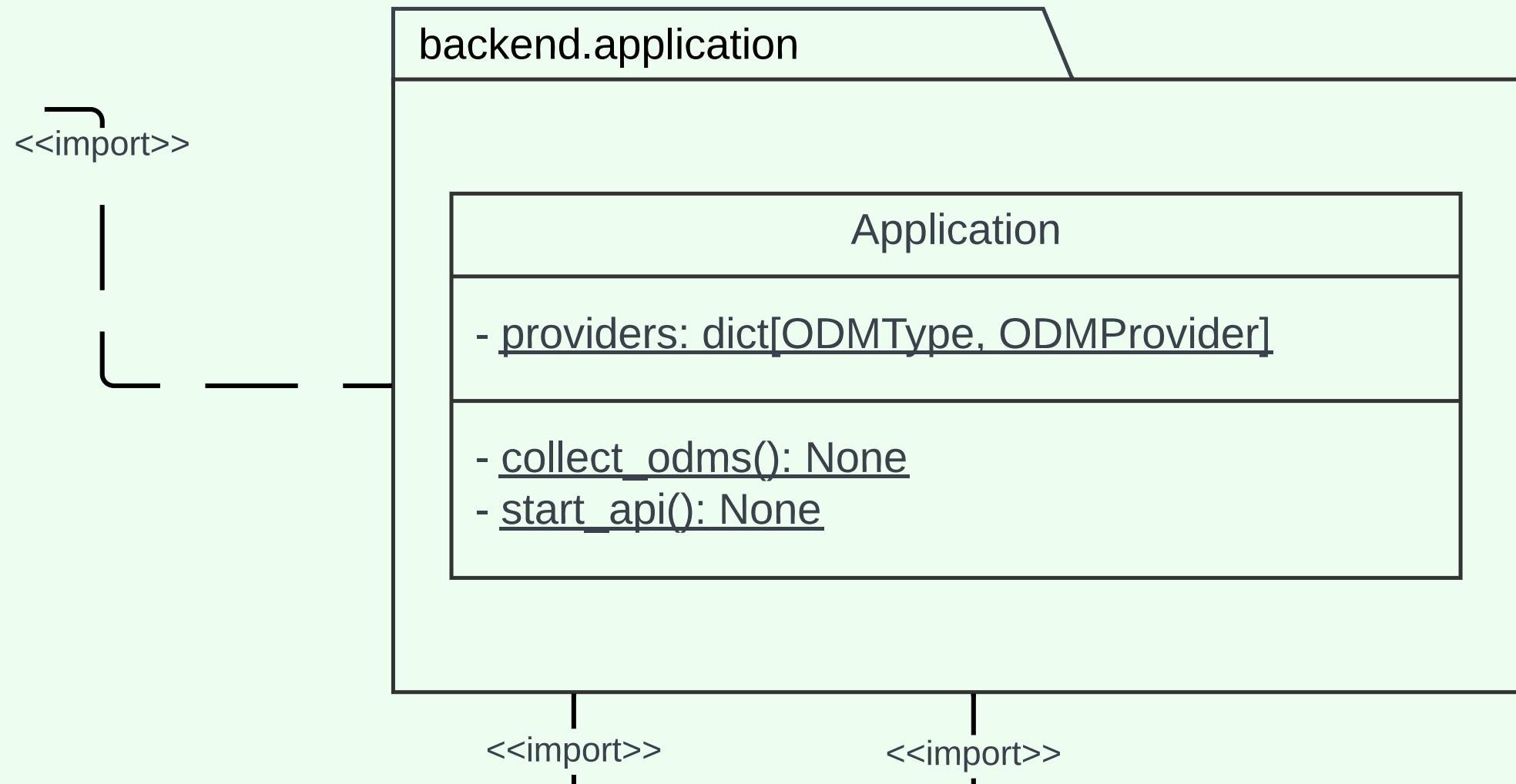
Backend - Application



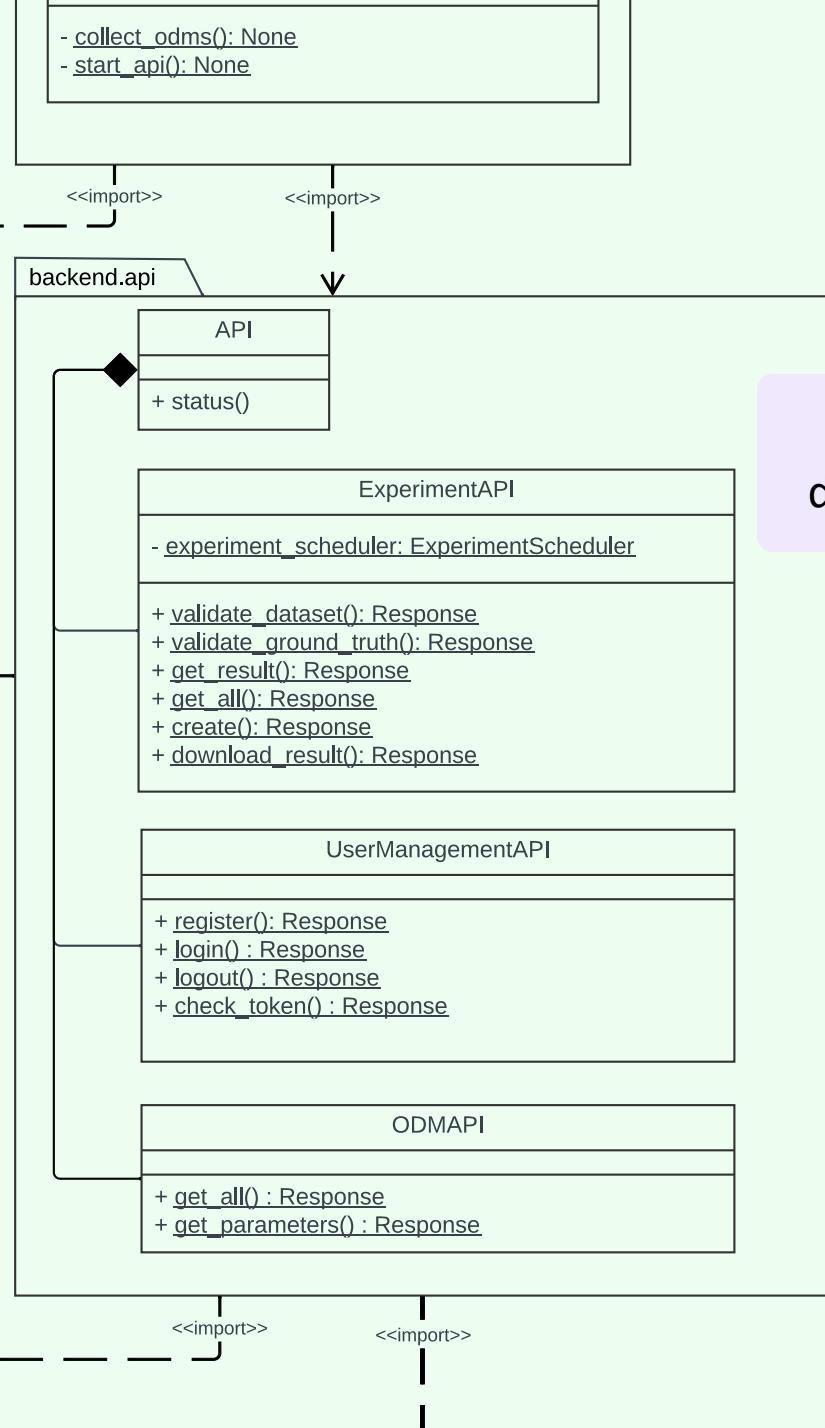
Backend - Application



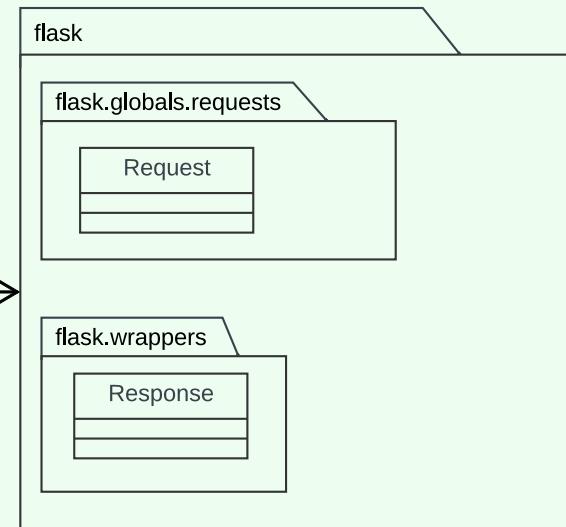
Backend - Application



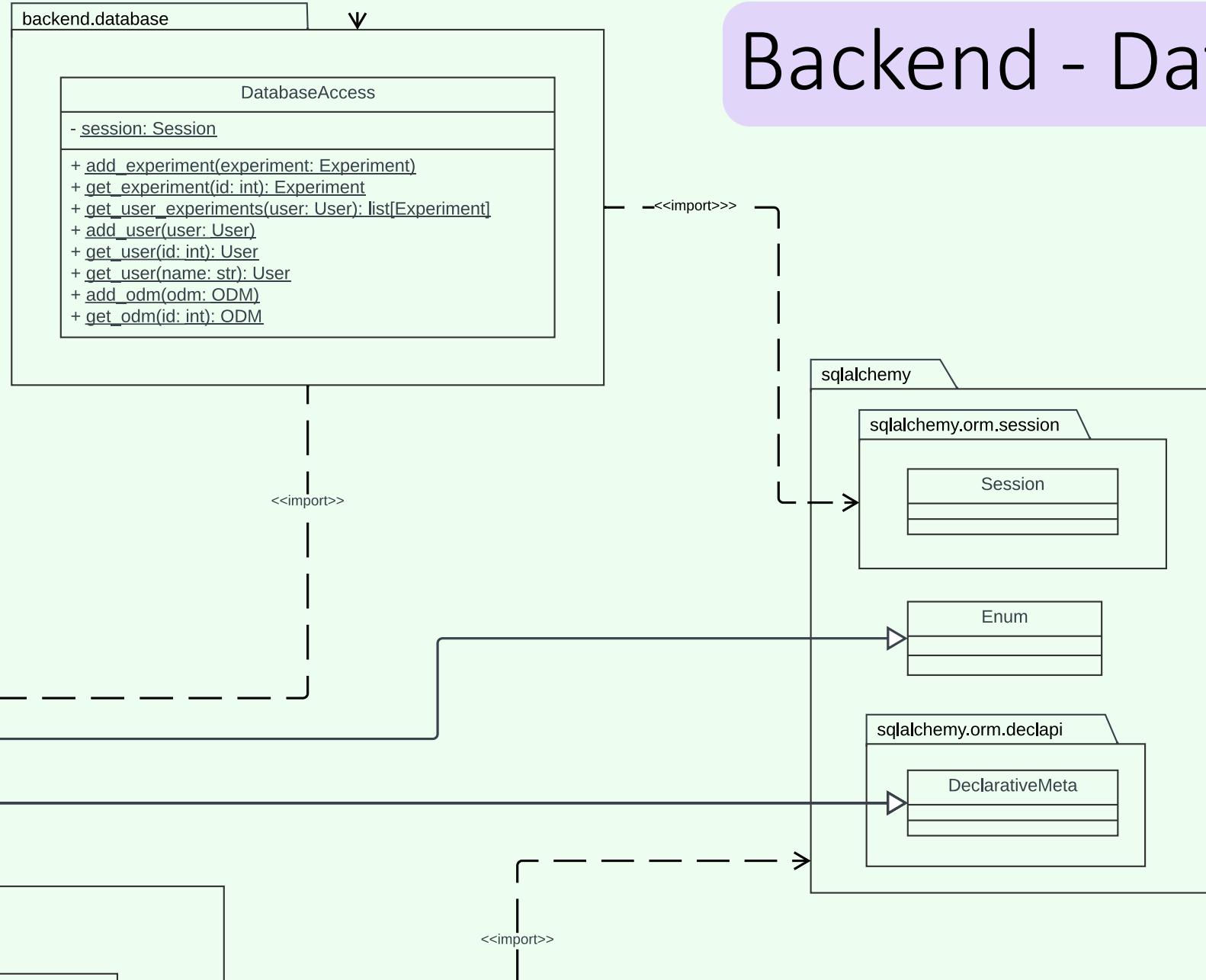
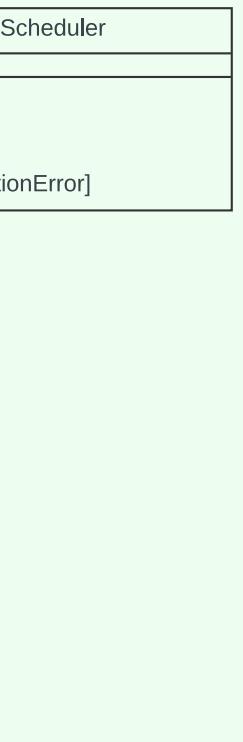
Backend - API



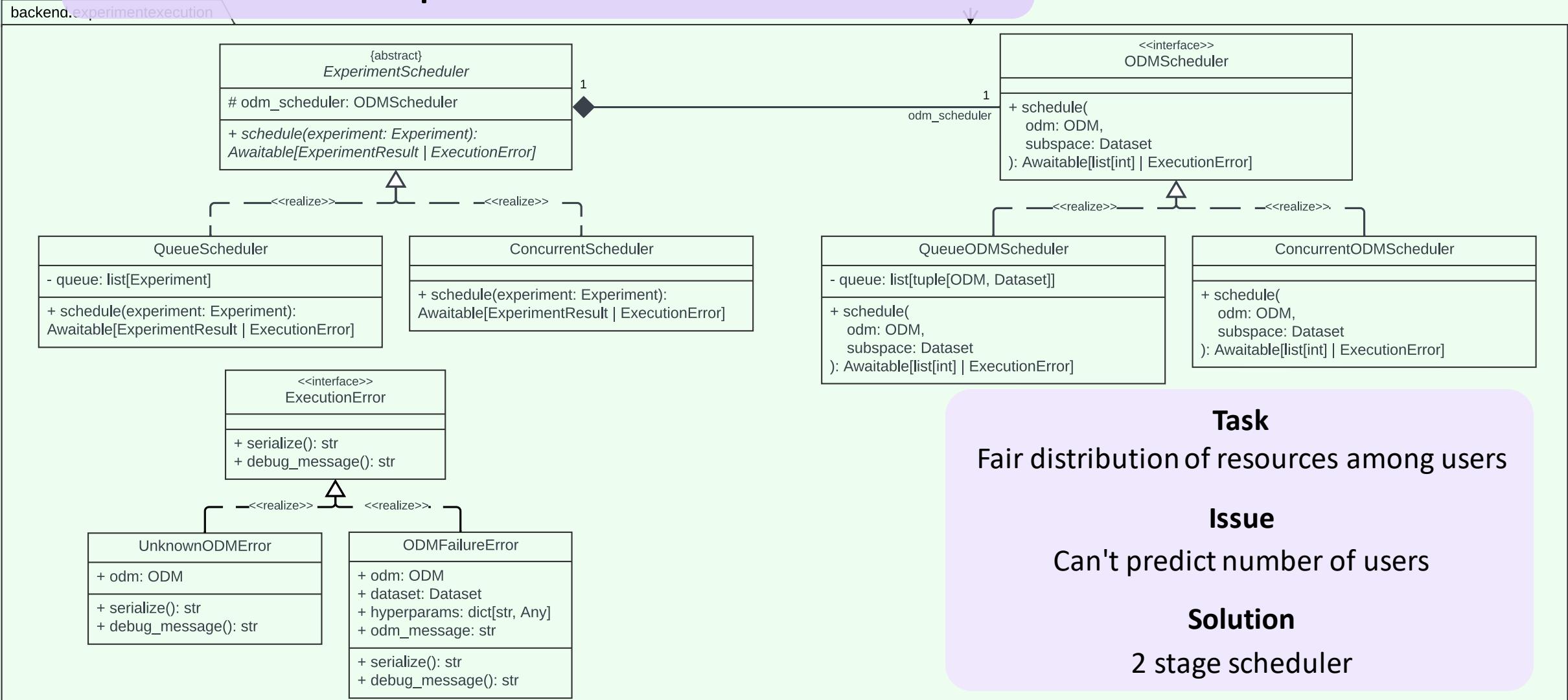
Each method
defines one endpoint



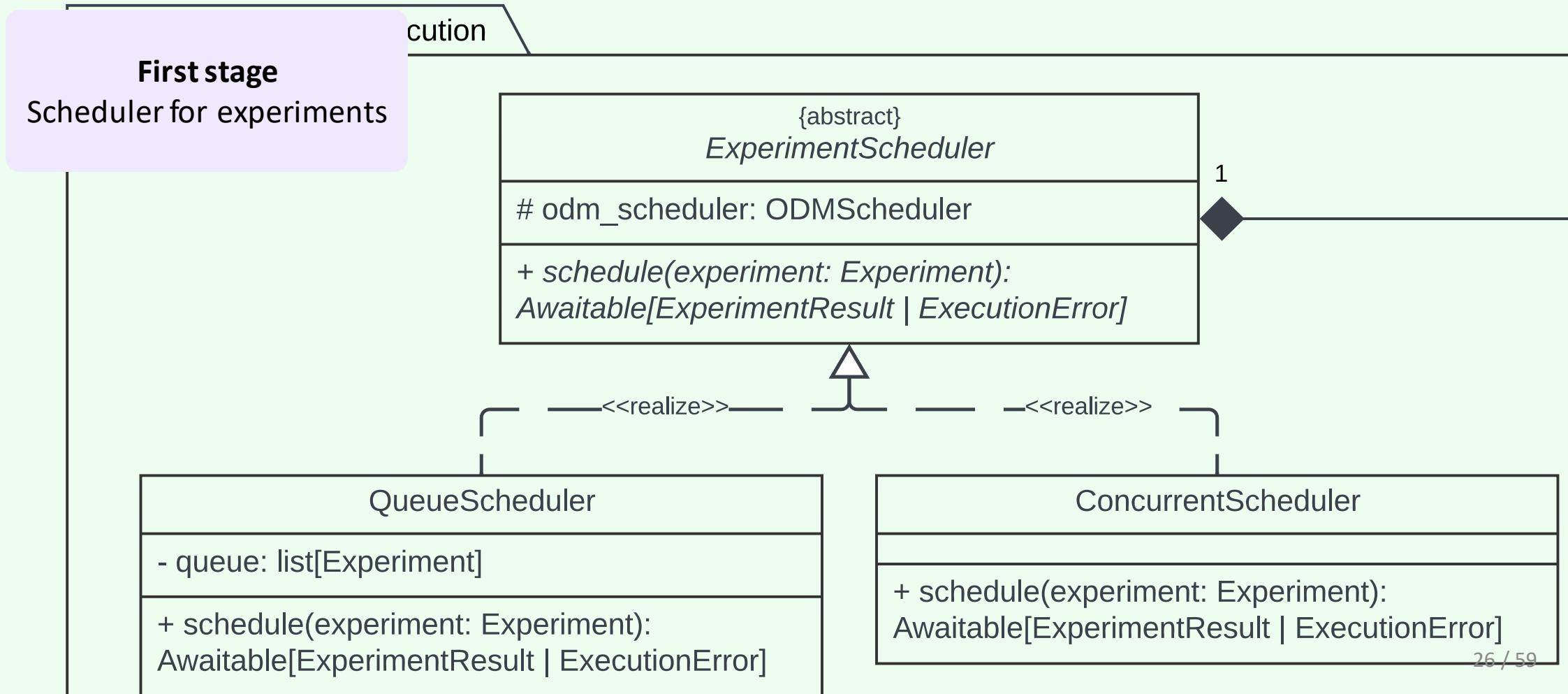
Backend - Database



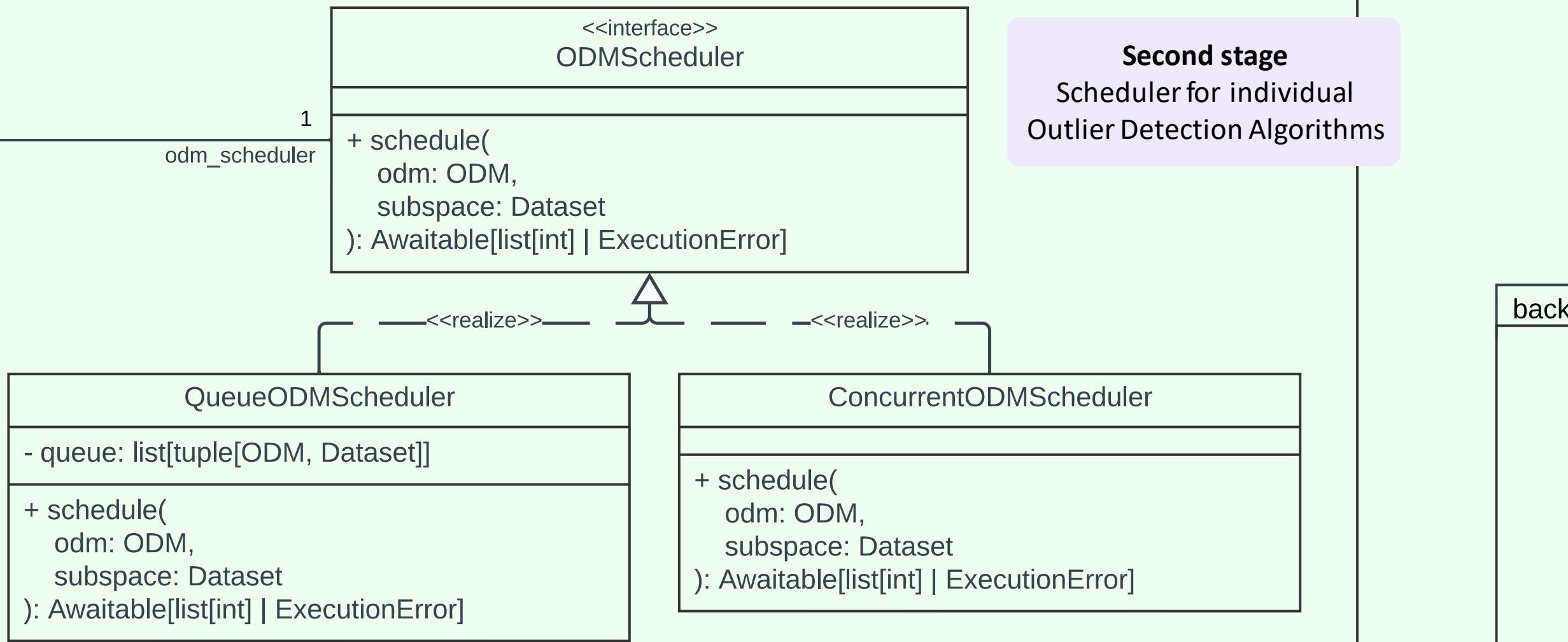
Backend Experiment Execution



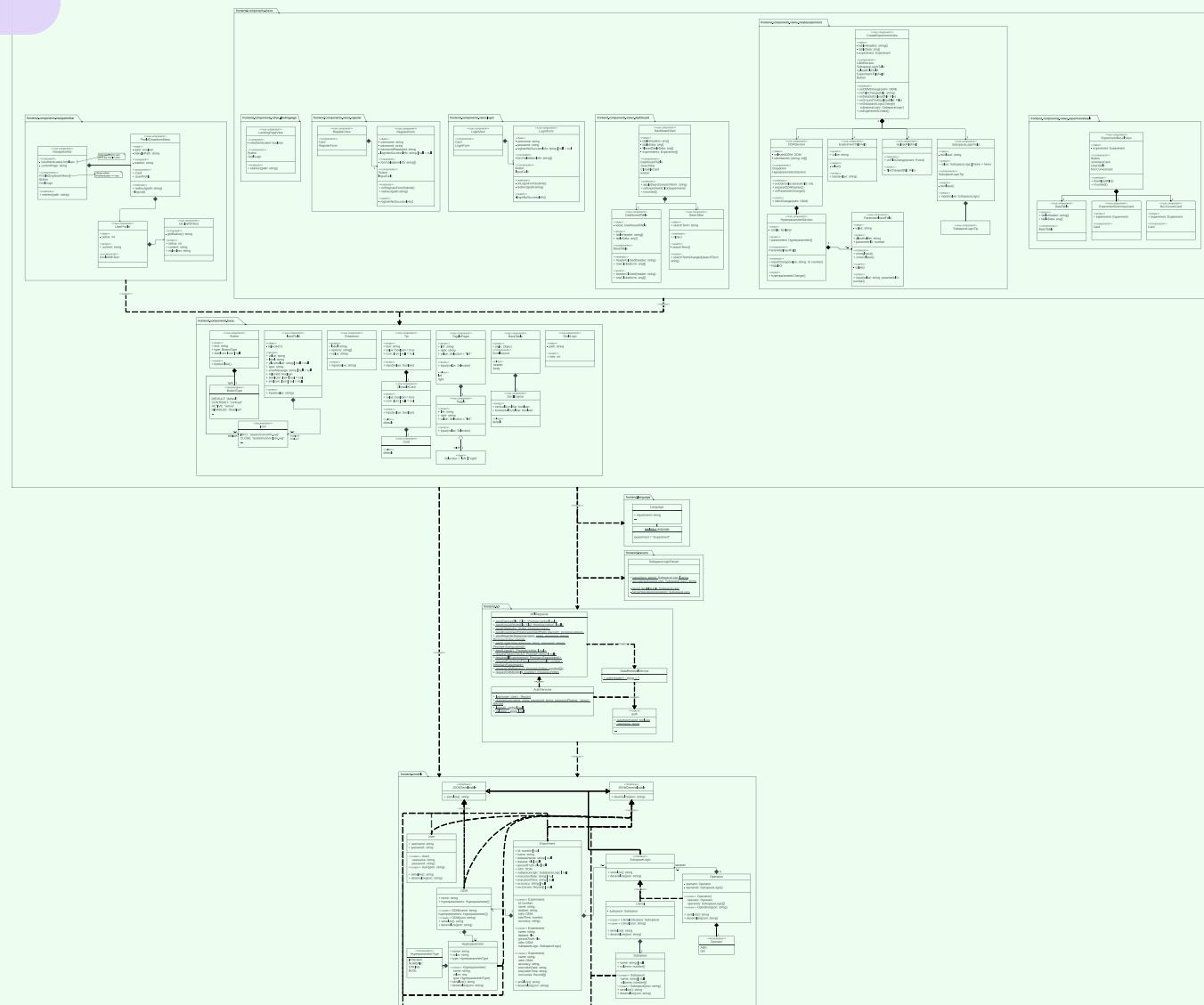
Backend Experiment Execution



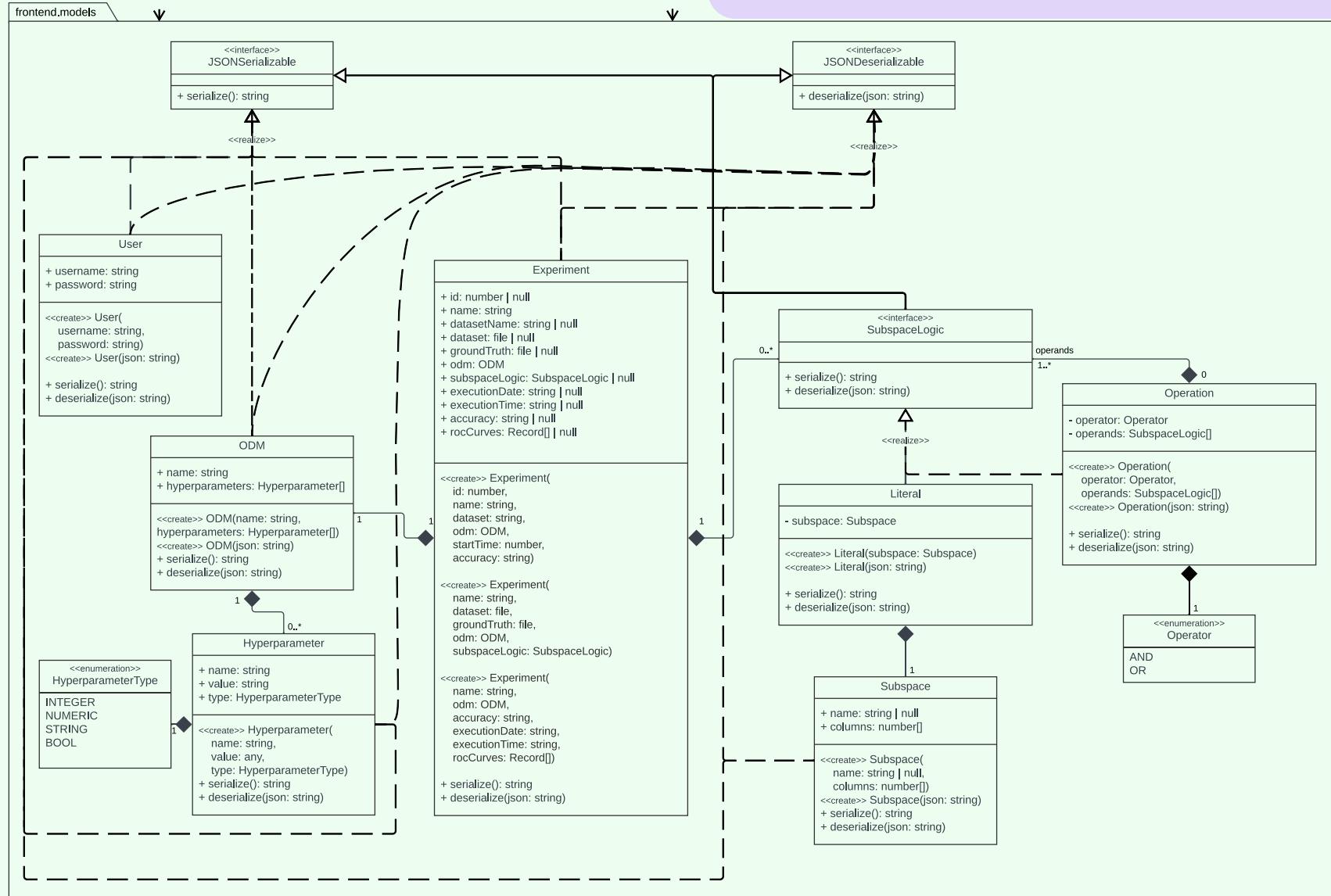
Backend Experiment Execution



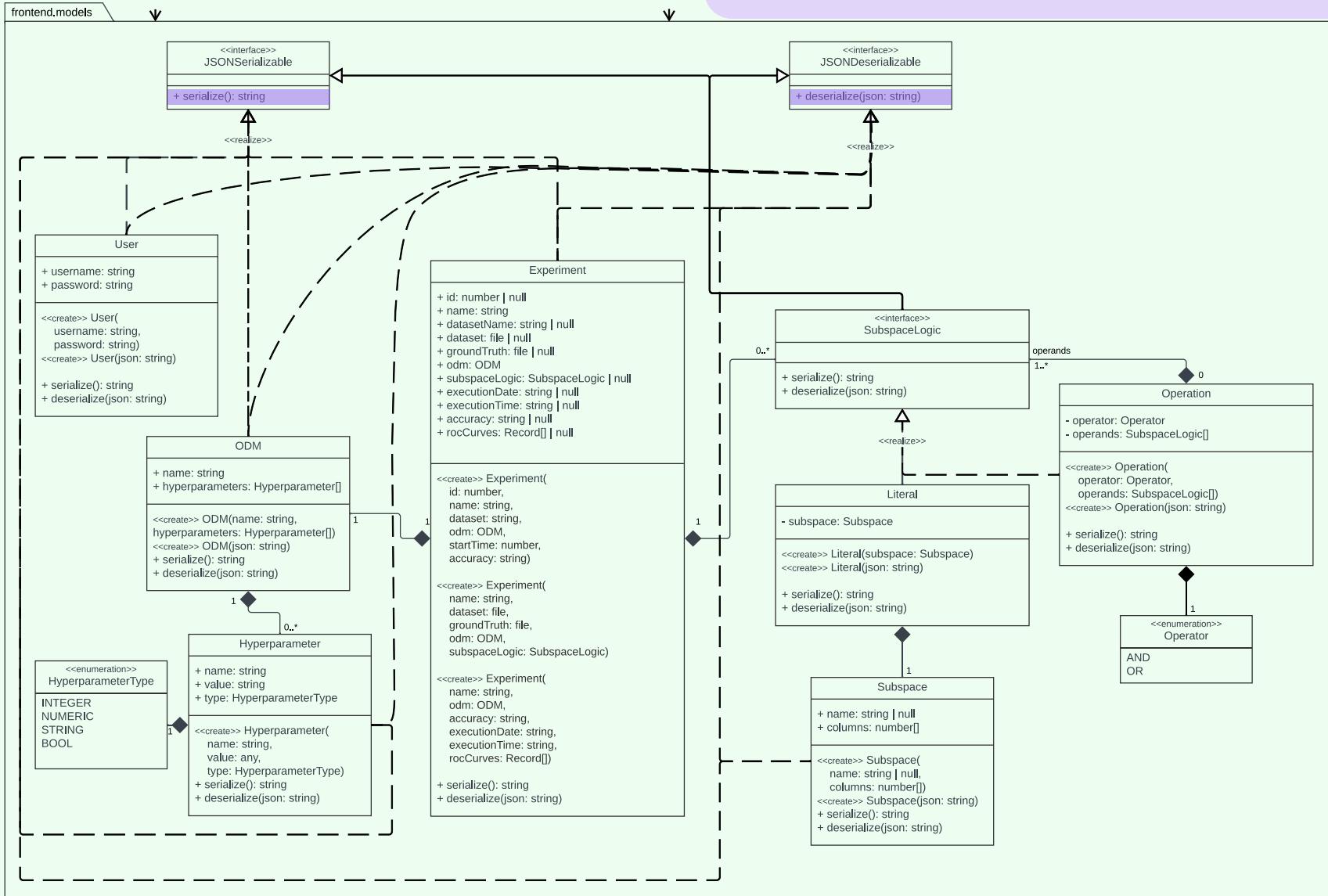
Frontend



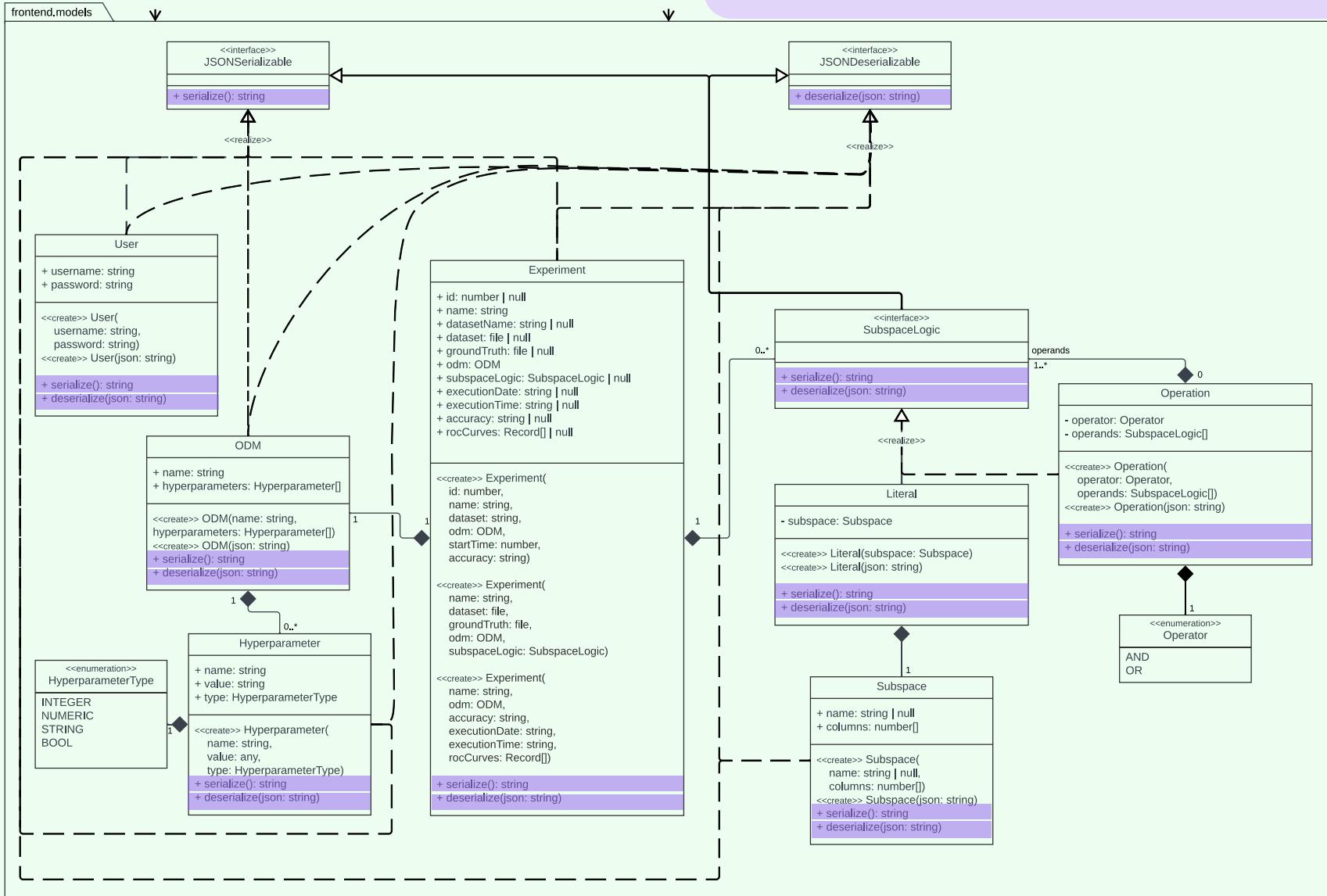
Frontend models



Frontend models



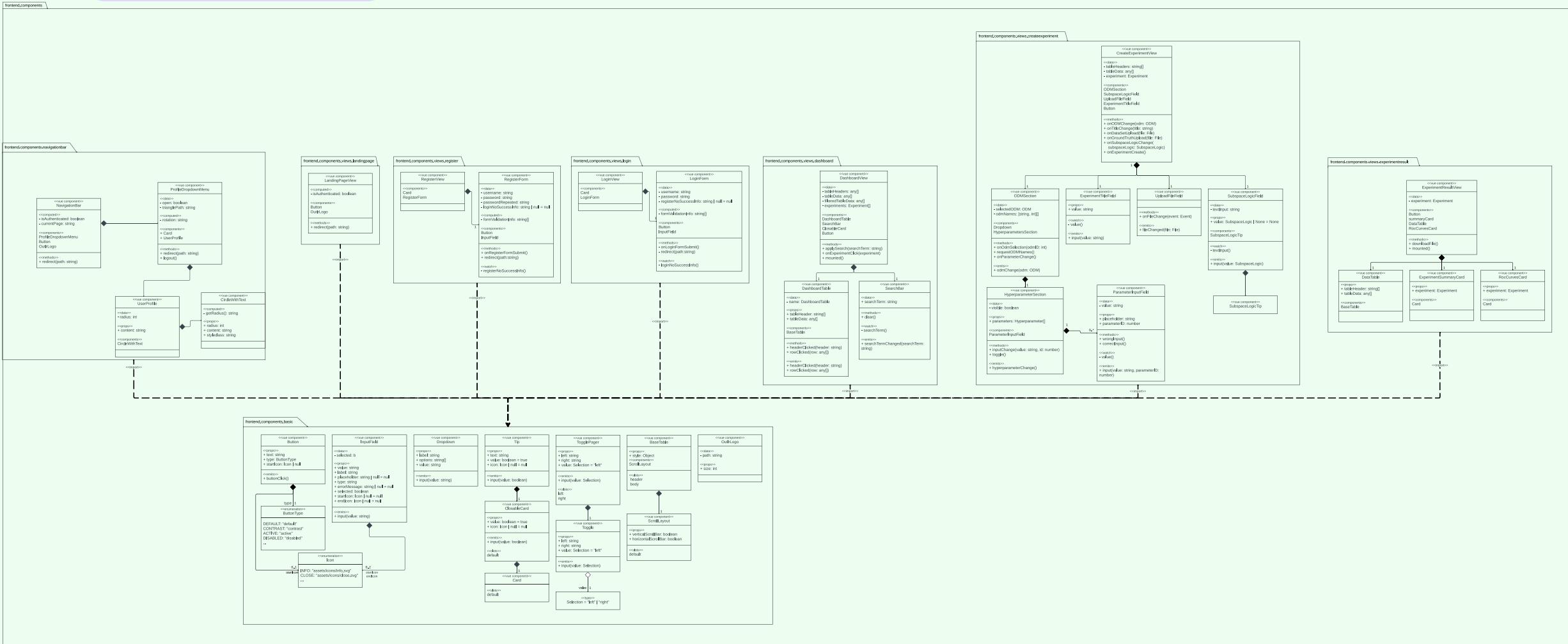
Frontend models



Structure of Component diagrams

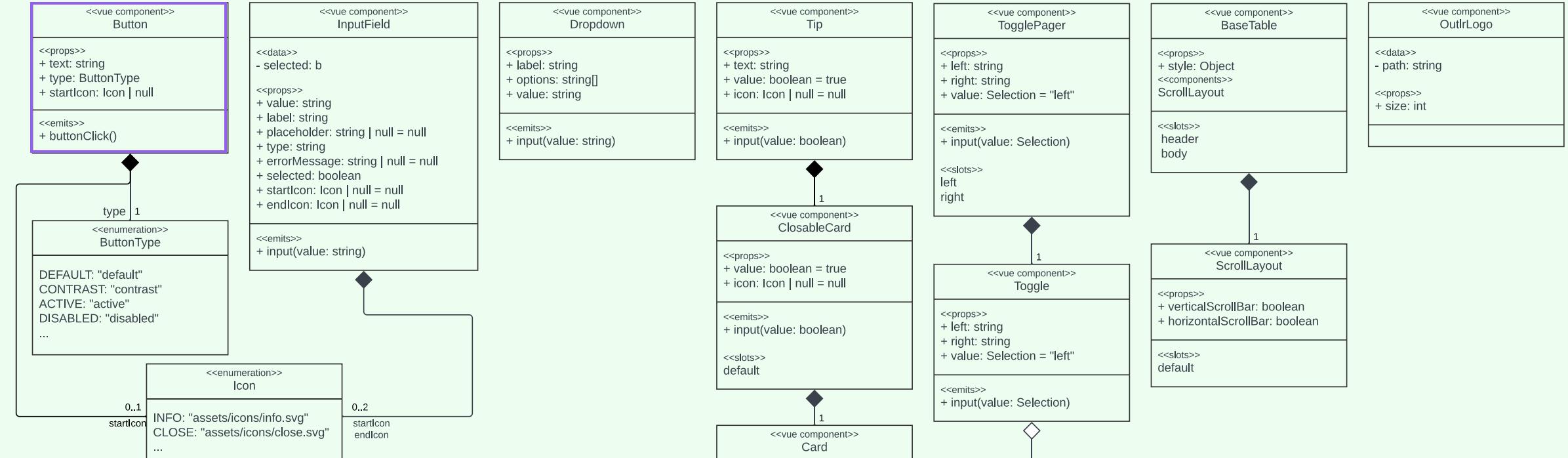
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<<data>>
- variable: Type
<<computed>>
- computedVariable: Type
<<props>>
+ property: Type
<<components>>
componentType
<<methods>>
+ method(param: Type): Type
<<watch>>
- variable()
<<emits>>
+ emitName()
<<slots>>
default
named

Frontend



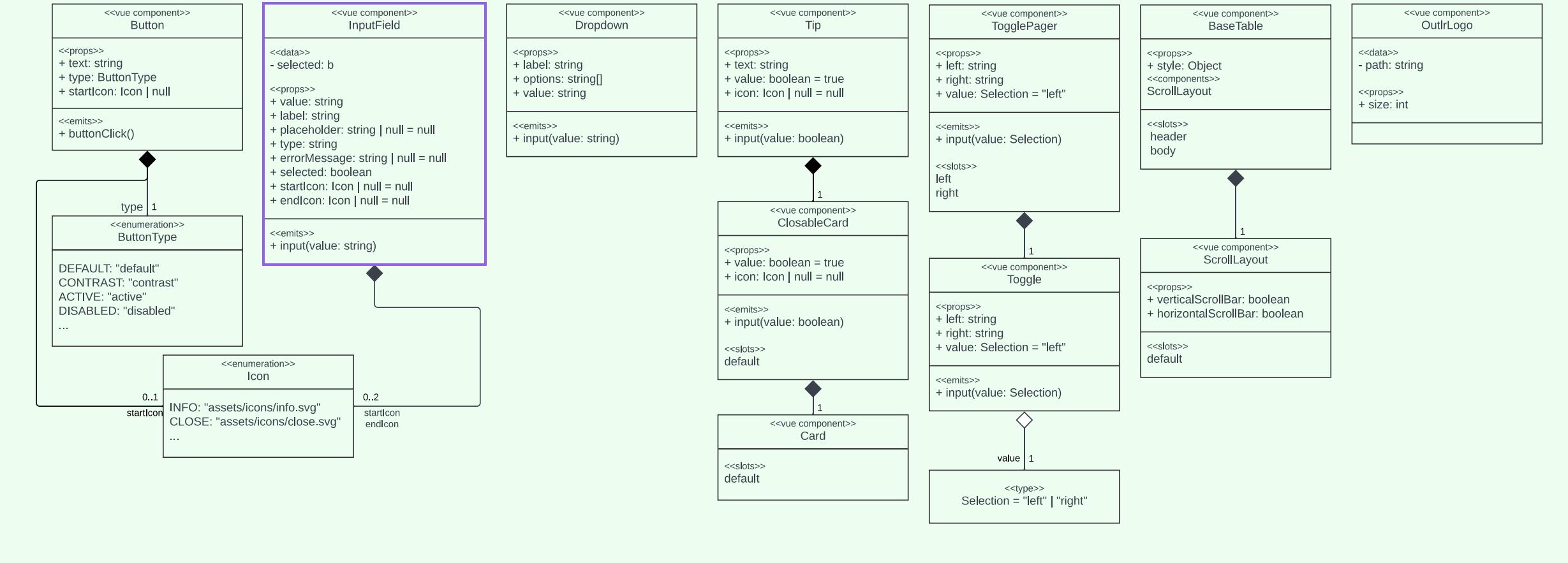
Frontend Basic Components

frontend.components.basic



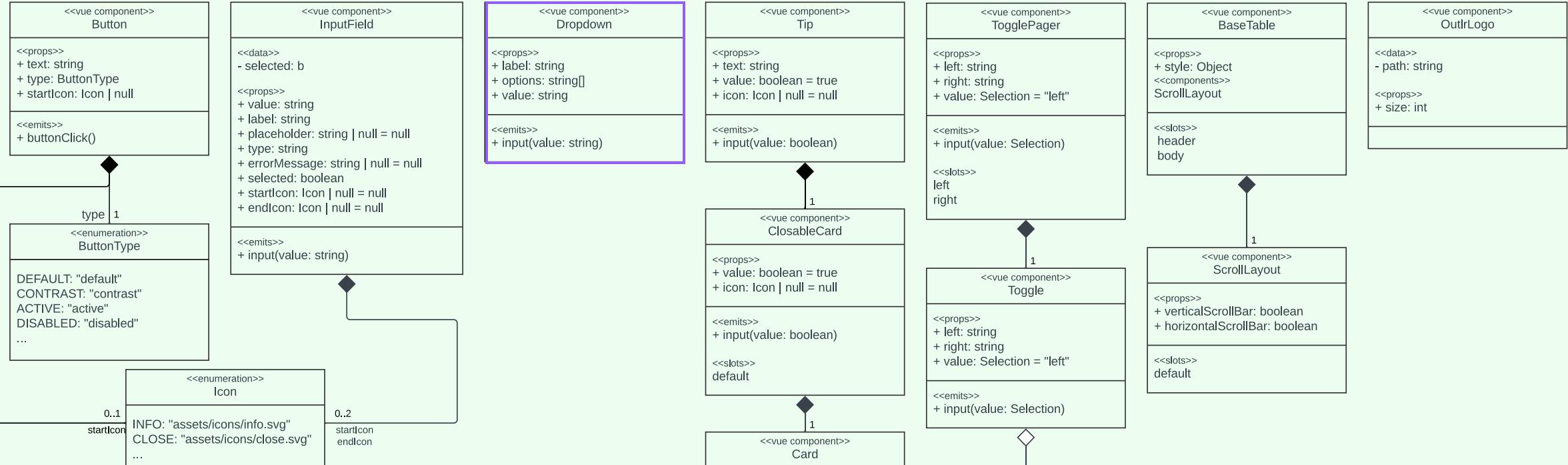
Frontend Basic Components

frontend.components.basic



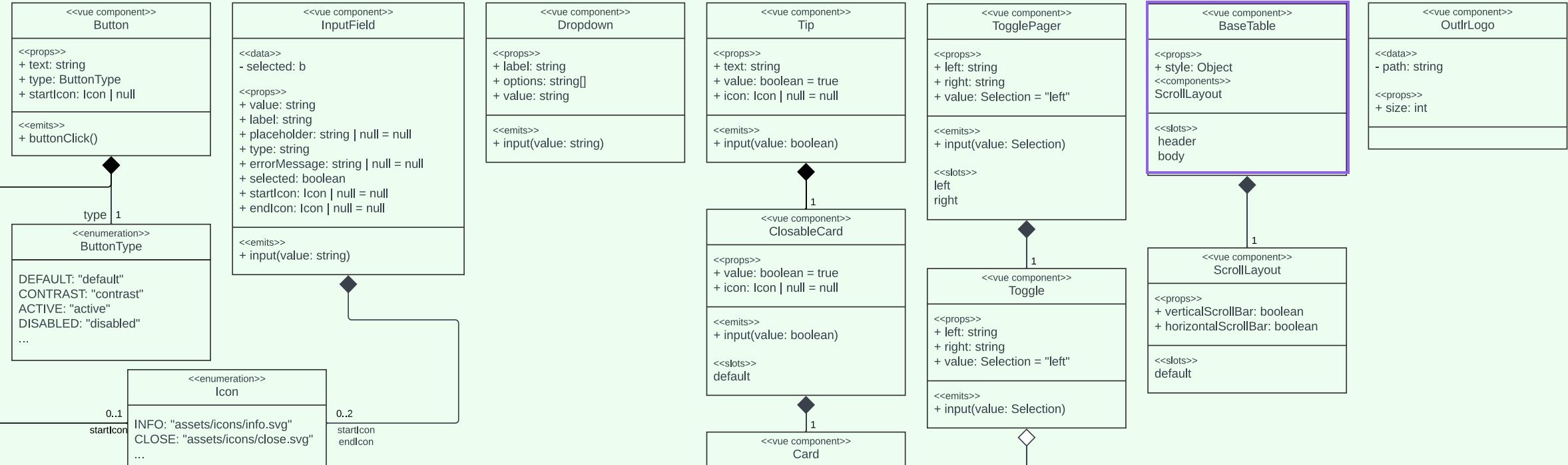
Frontend Basic Components

frontend.components.basic



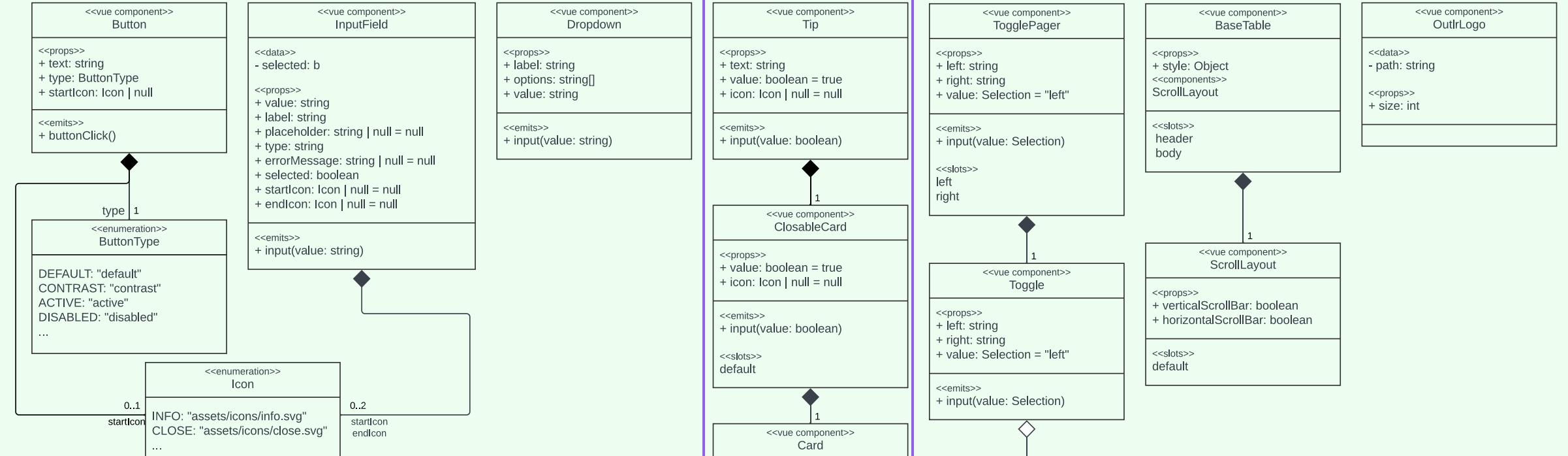
Frontend Basic Components

frontend.components.basic

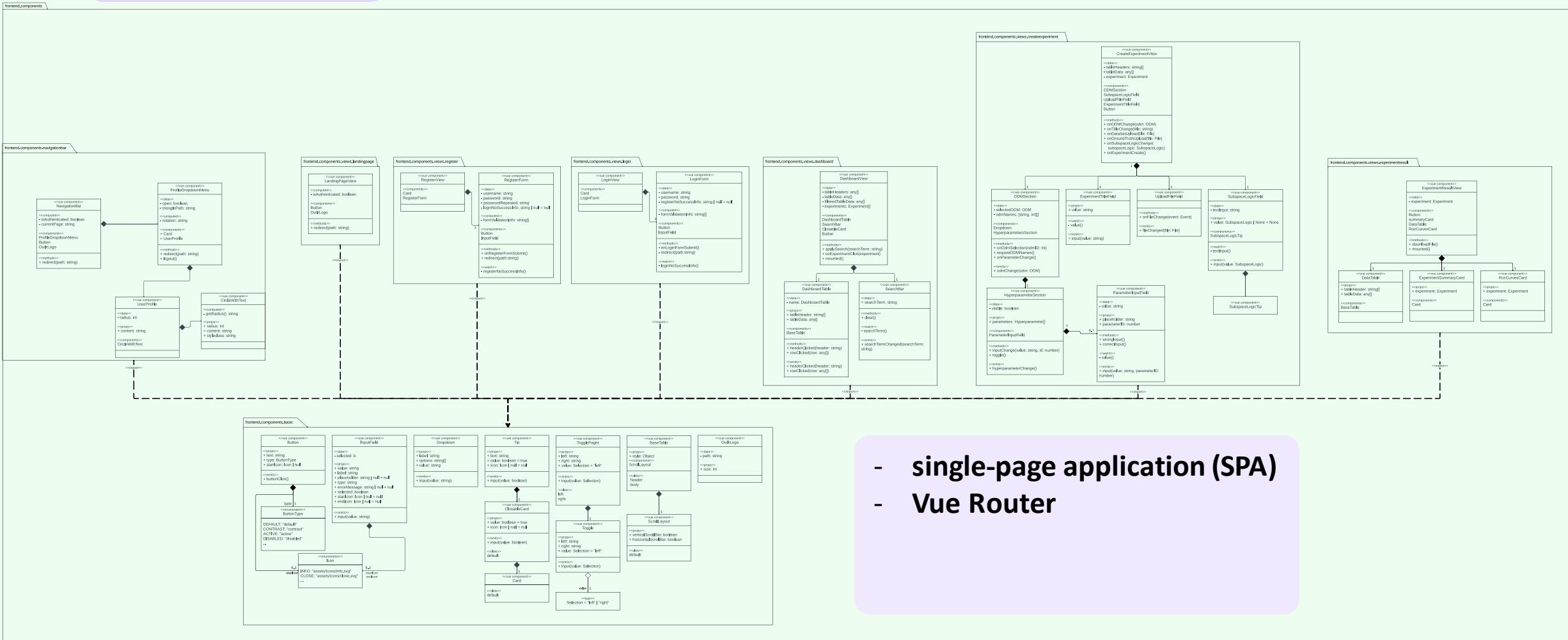


Frontend Basic Components

frontend.components.basic

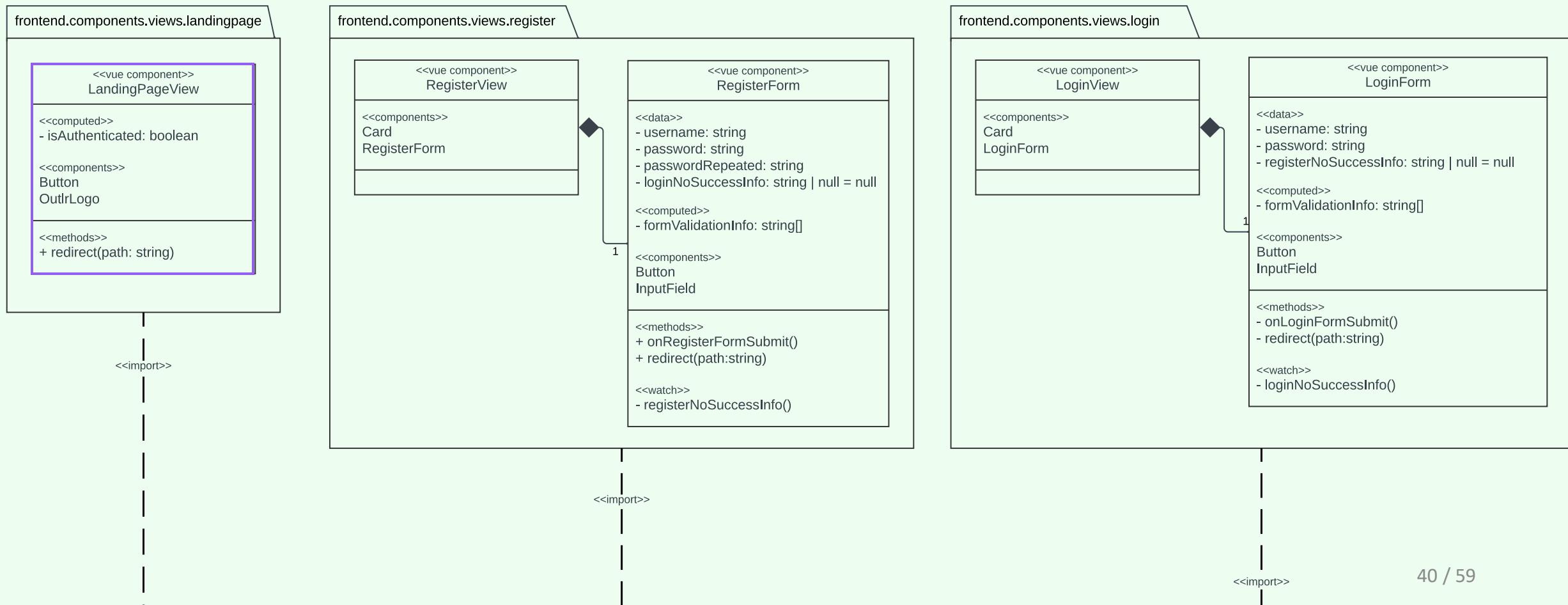


Frontend

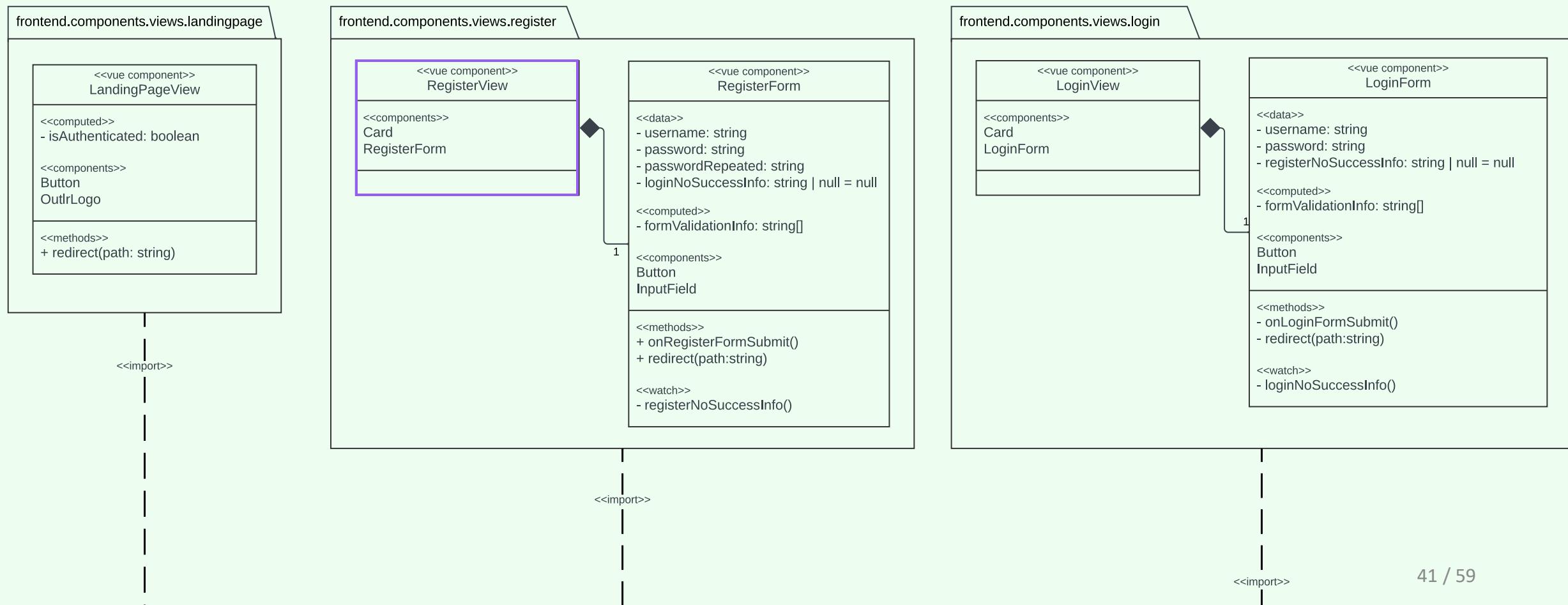


- single-page application (SPA)
 - Vue Router

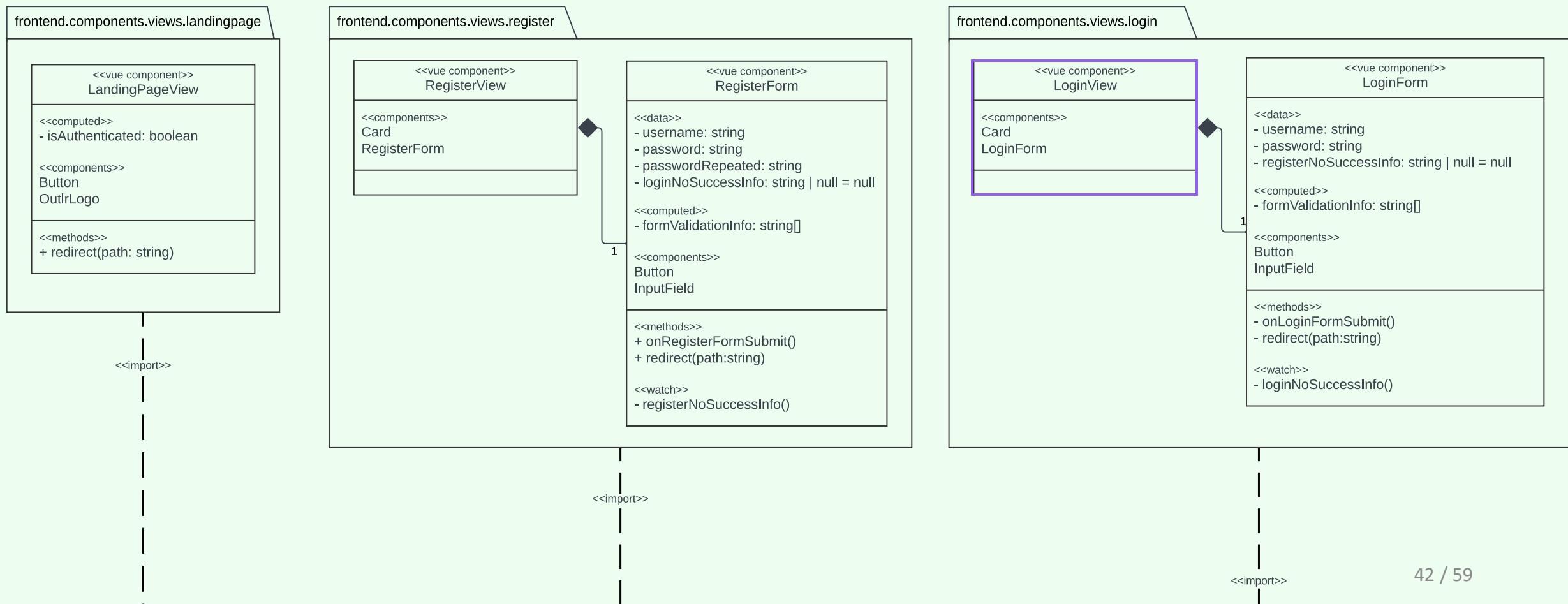
Frontend Views



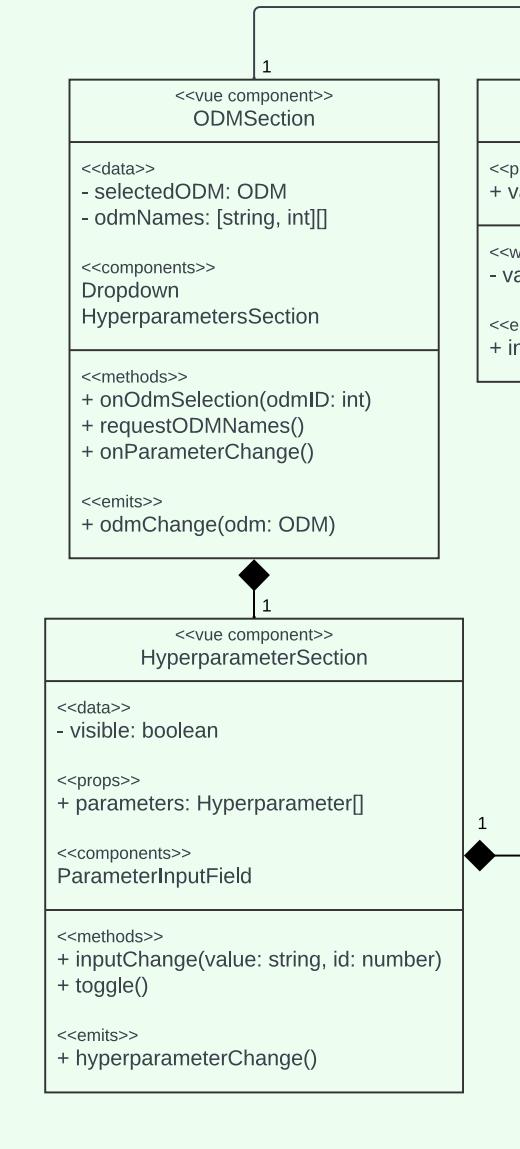
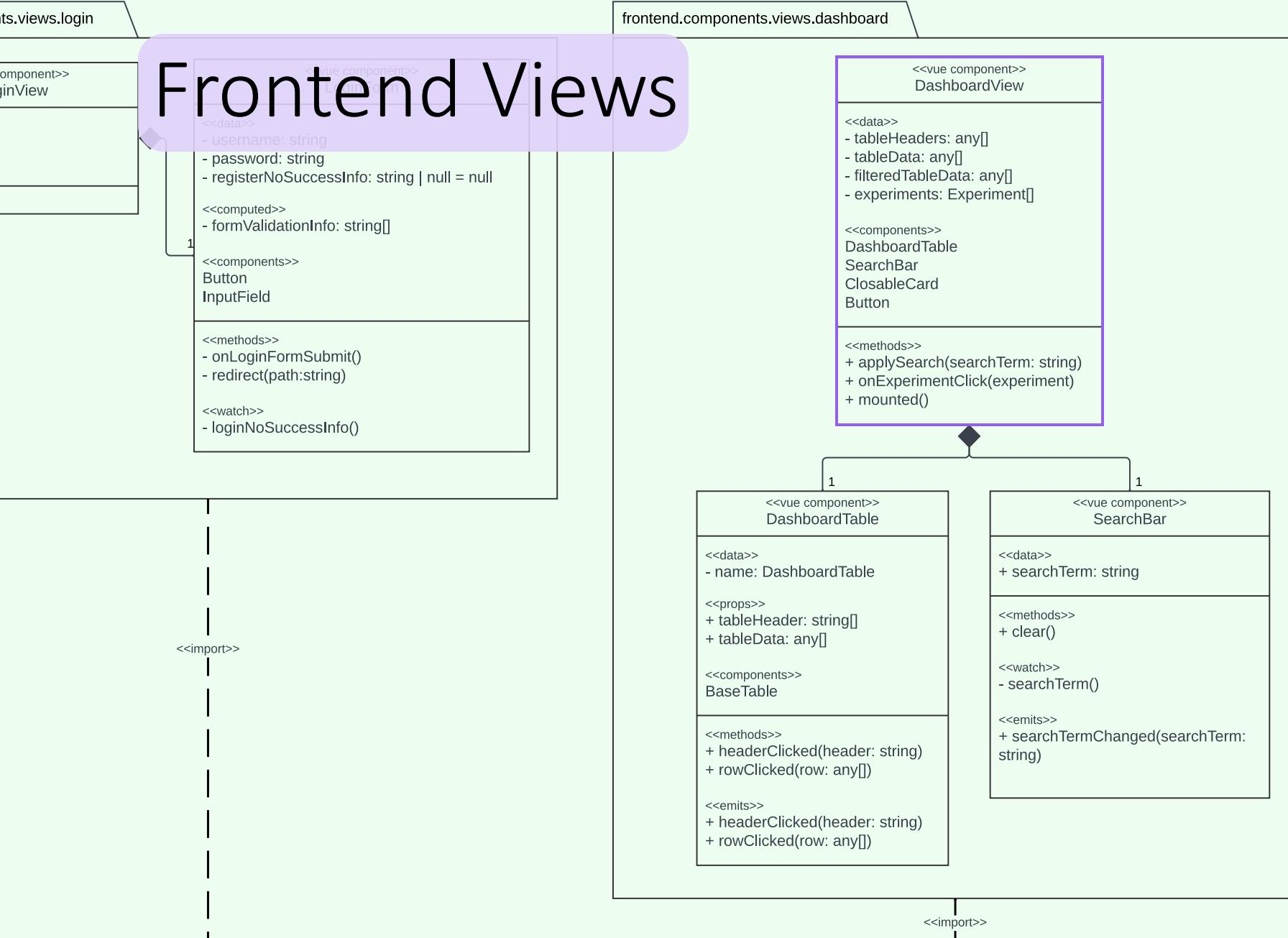
Frontend Views



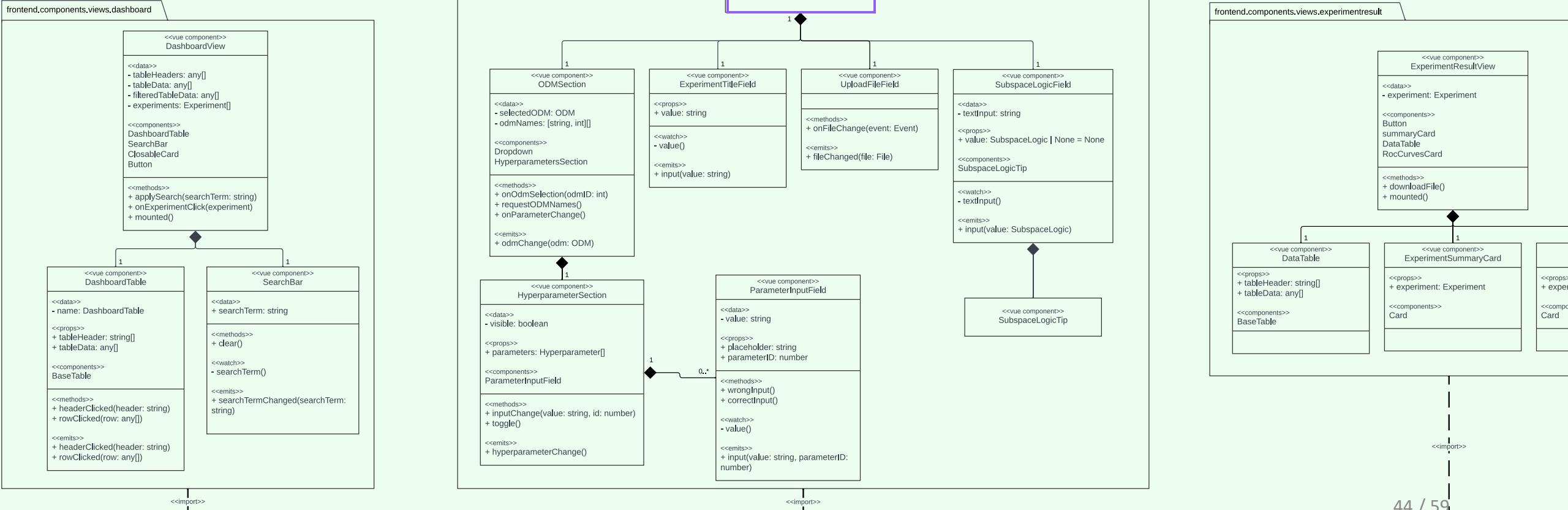
Frontend Views



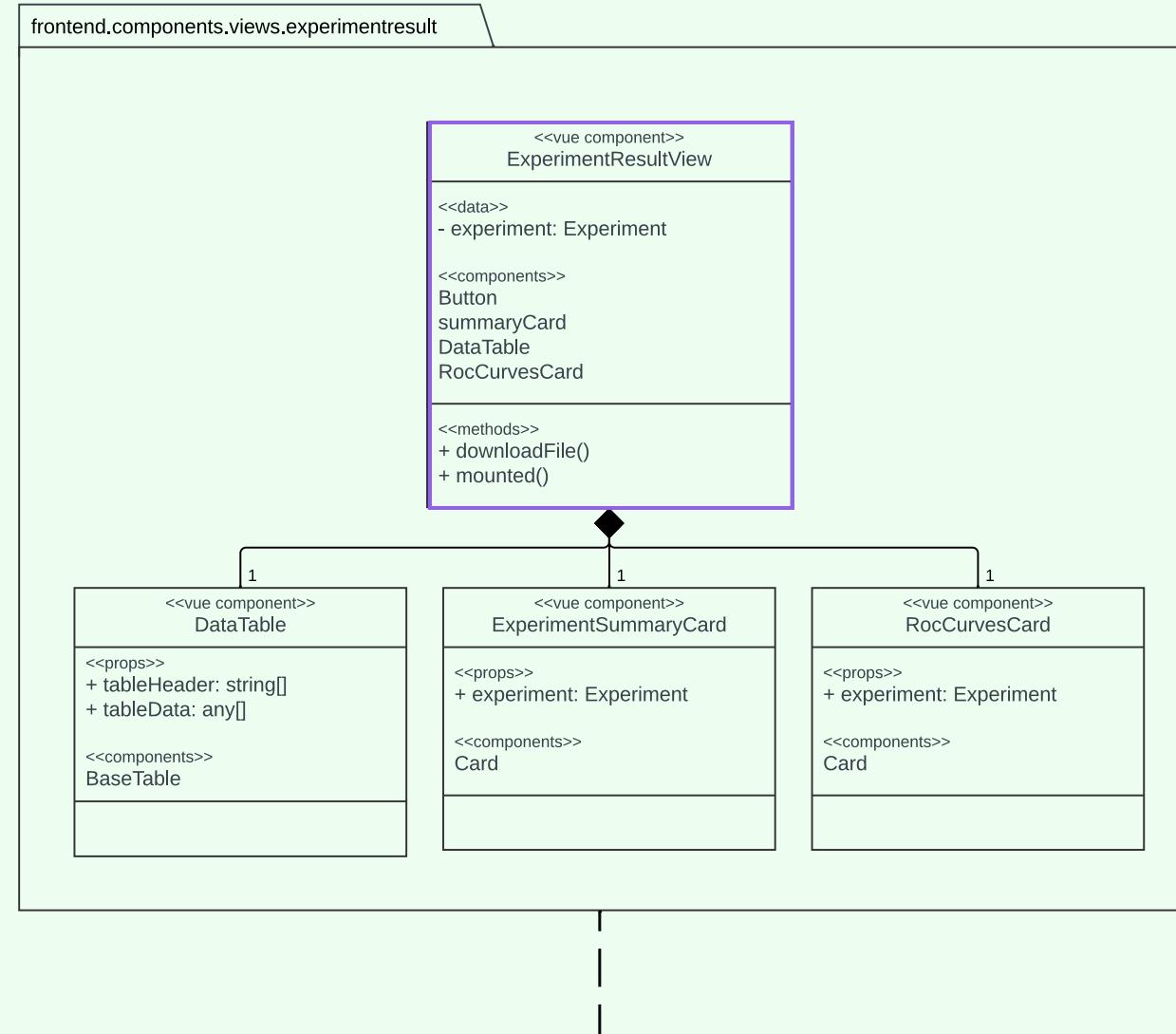
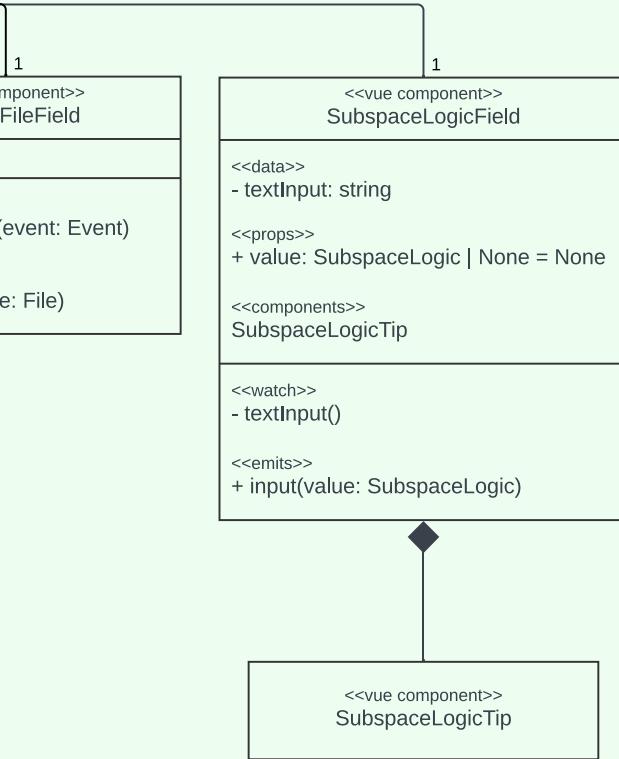
Frontend Views



Frontend Views

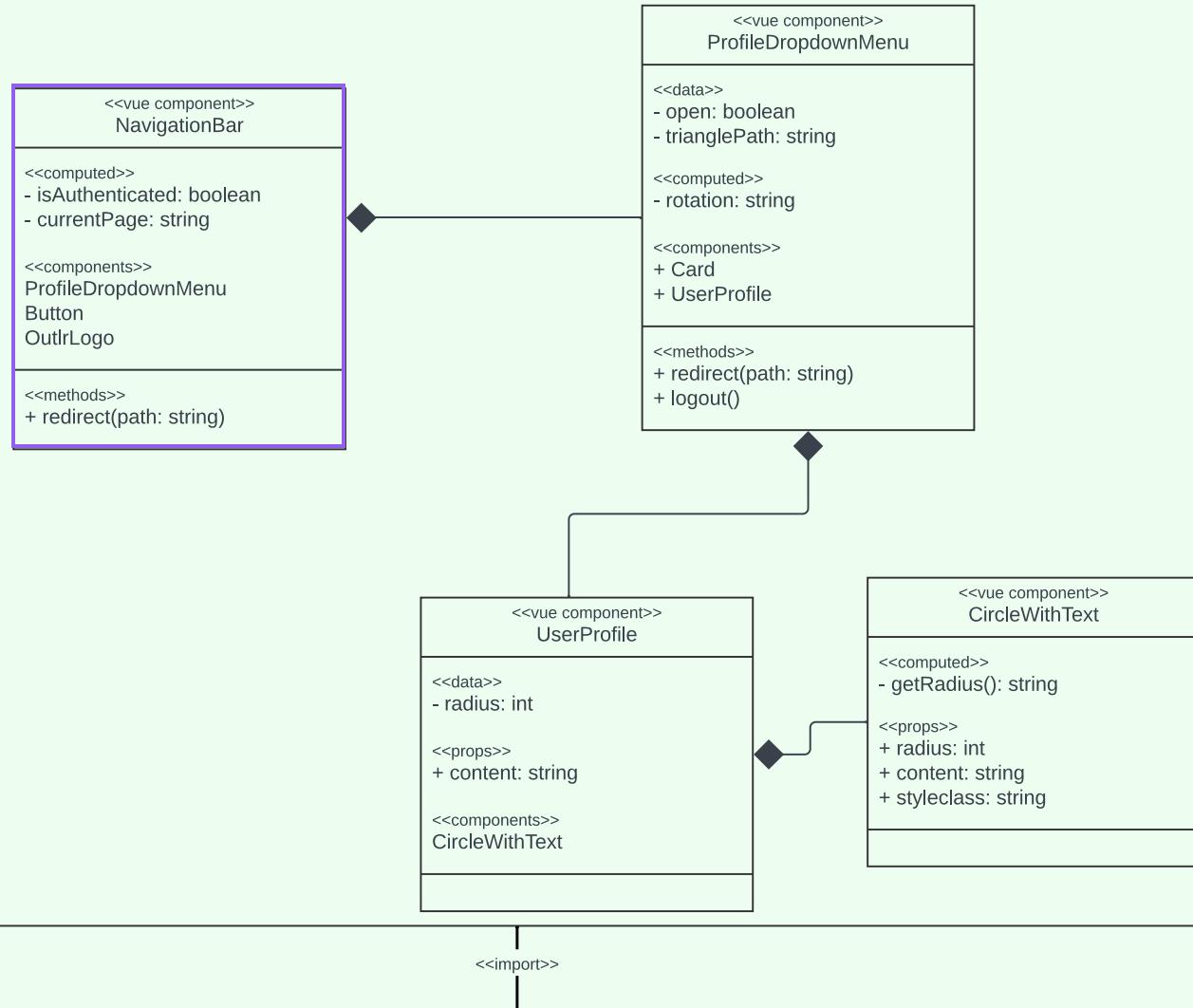


Frontend Views



Frontend Views

frontend.components.navigationbar



frontend.components

<<vue component>>
LandingPage

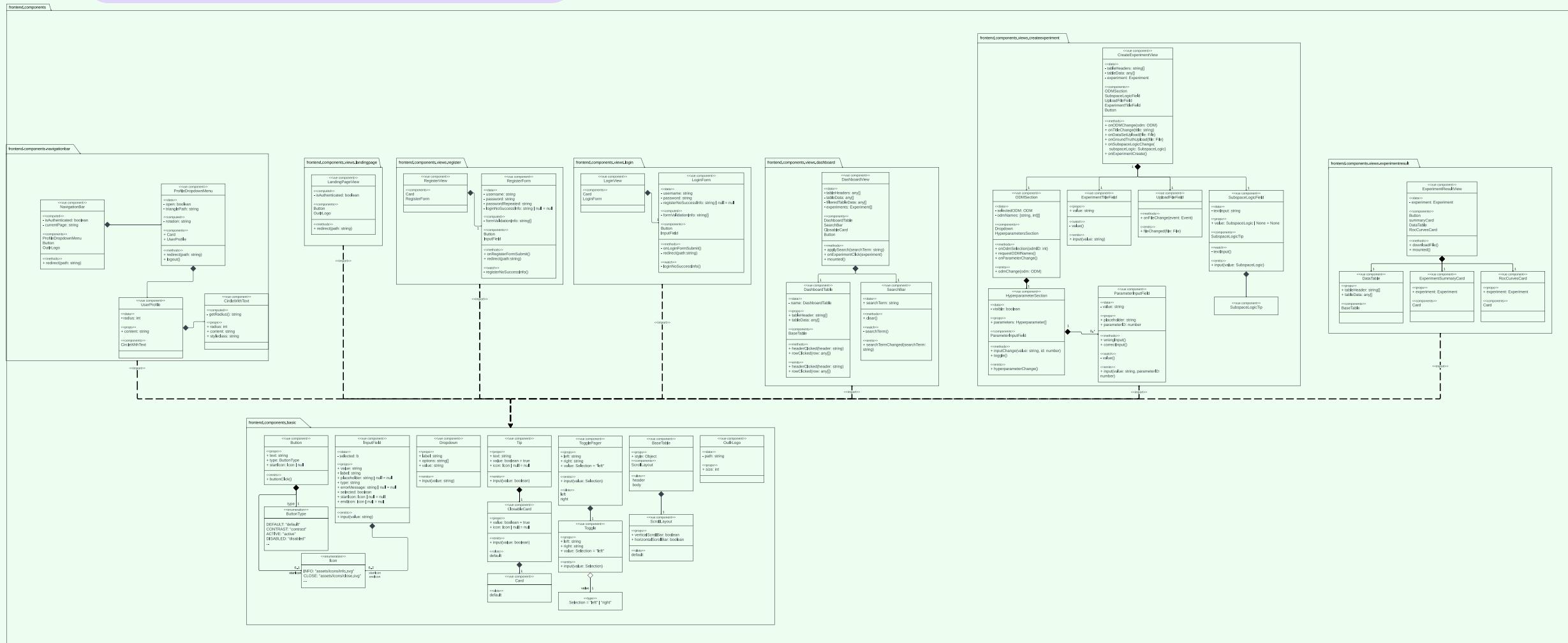
<<computed>>
- isAuthenticated

<<components>>
Button
OutlrLogo

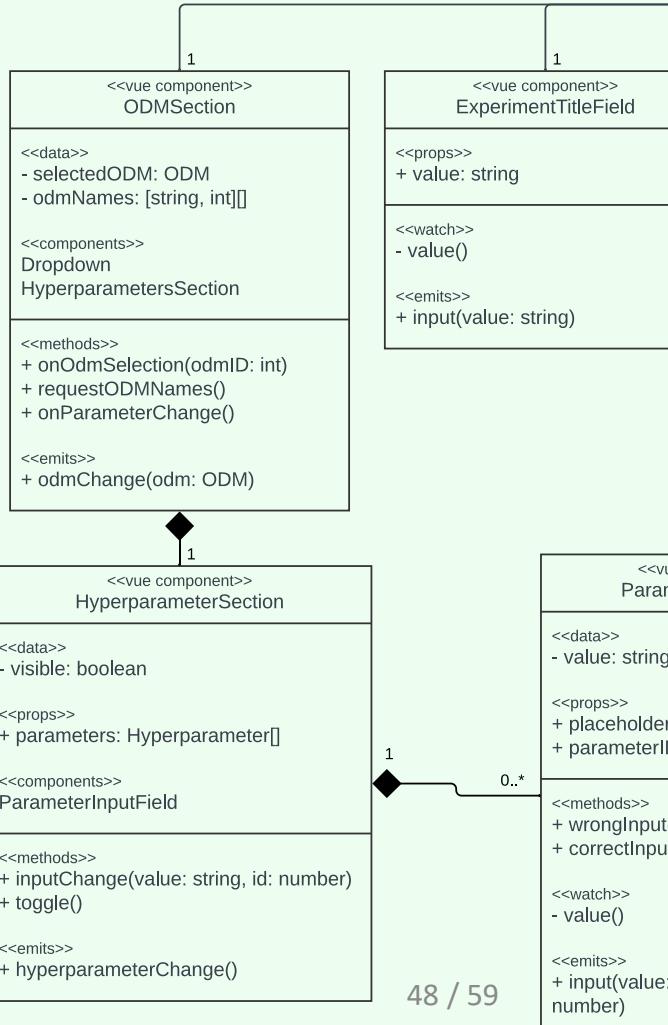
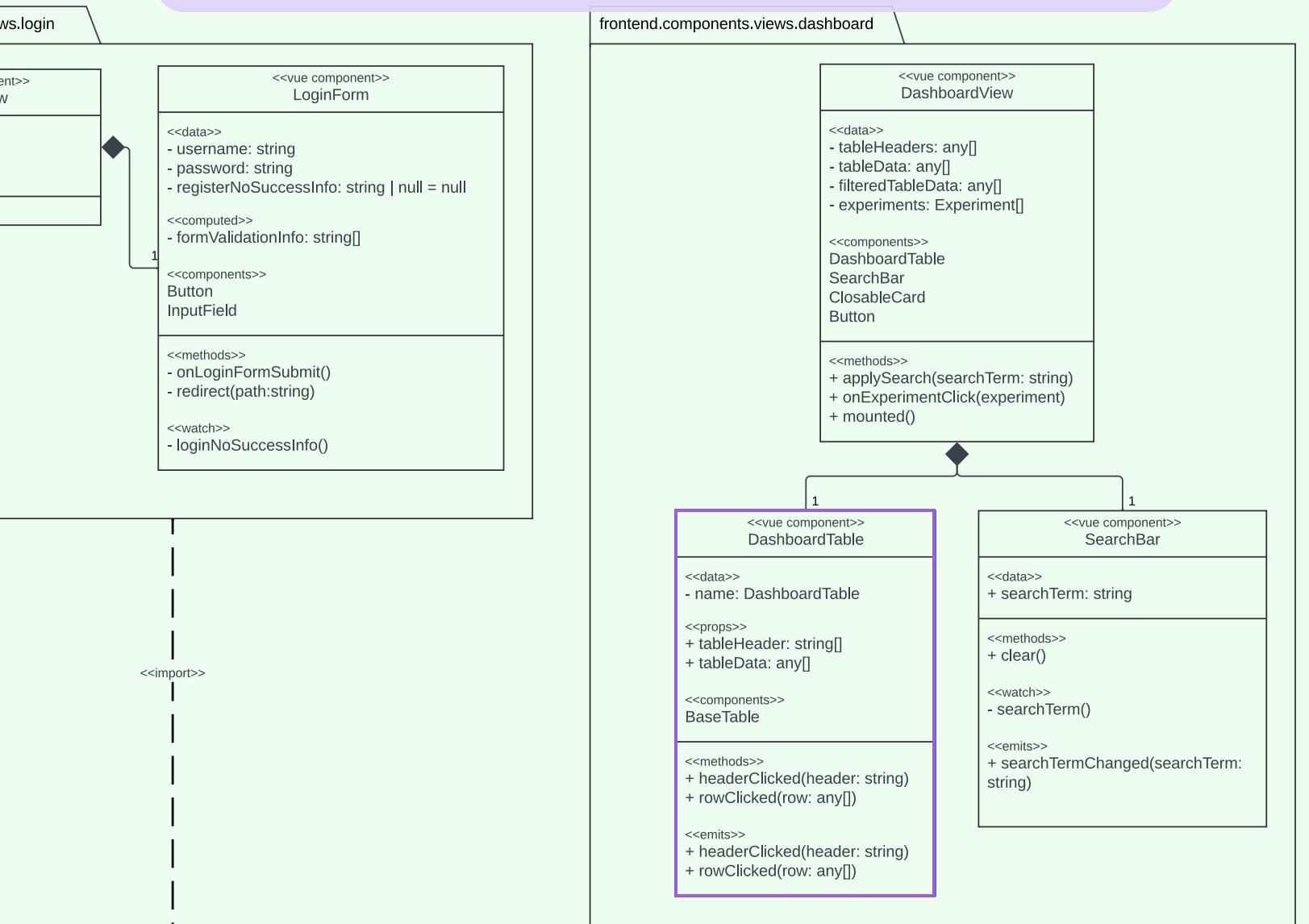
<<methods>>
+ redirect(path: string)

<<import>>

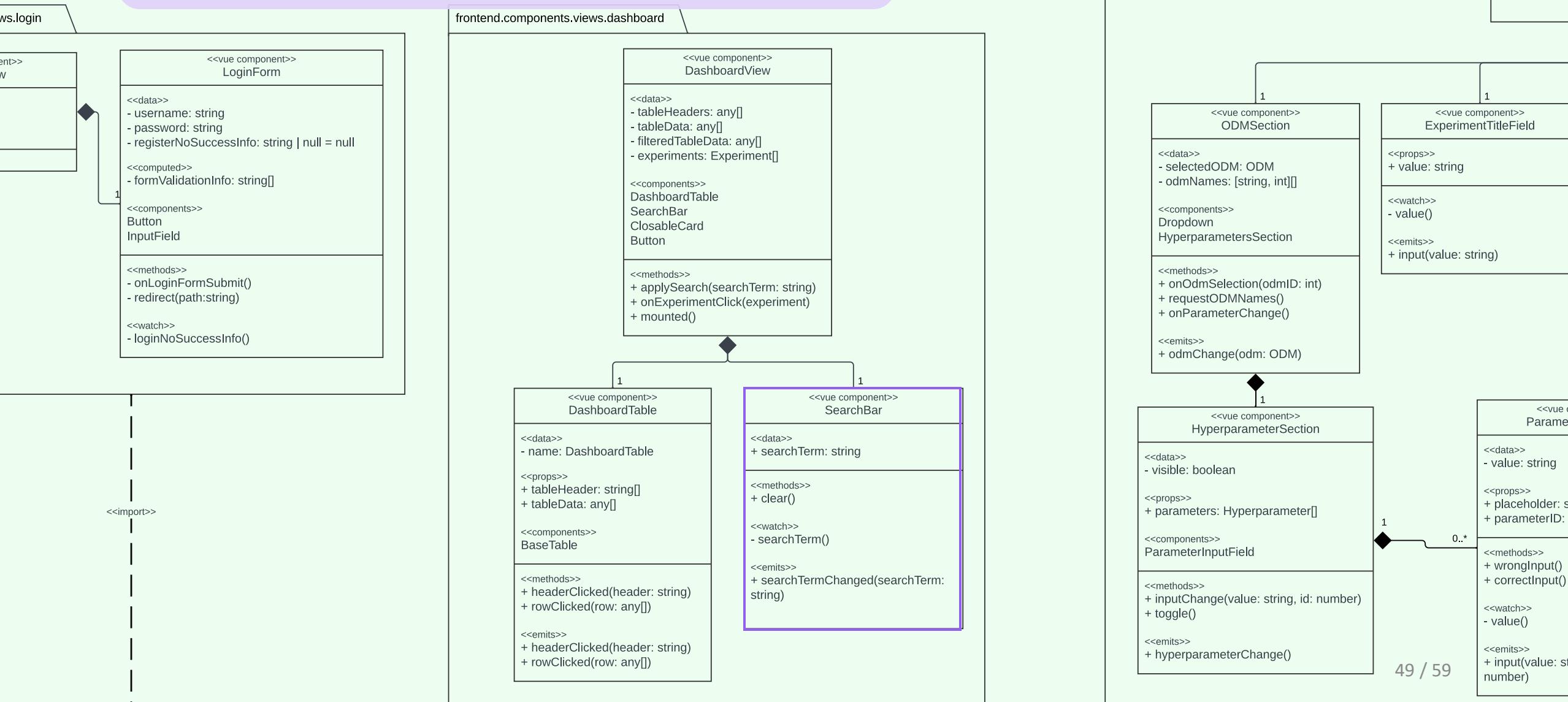
Frontend Views



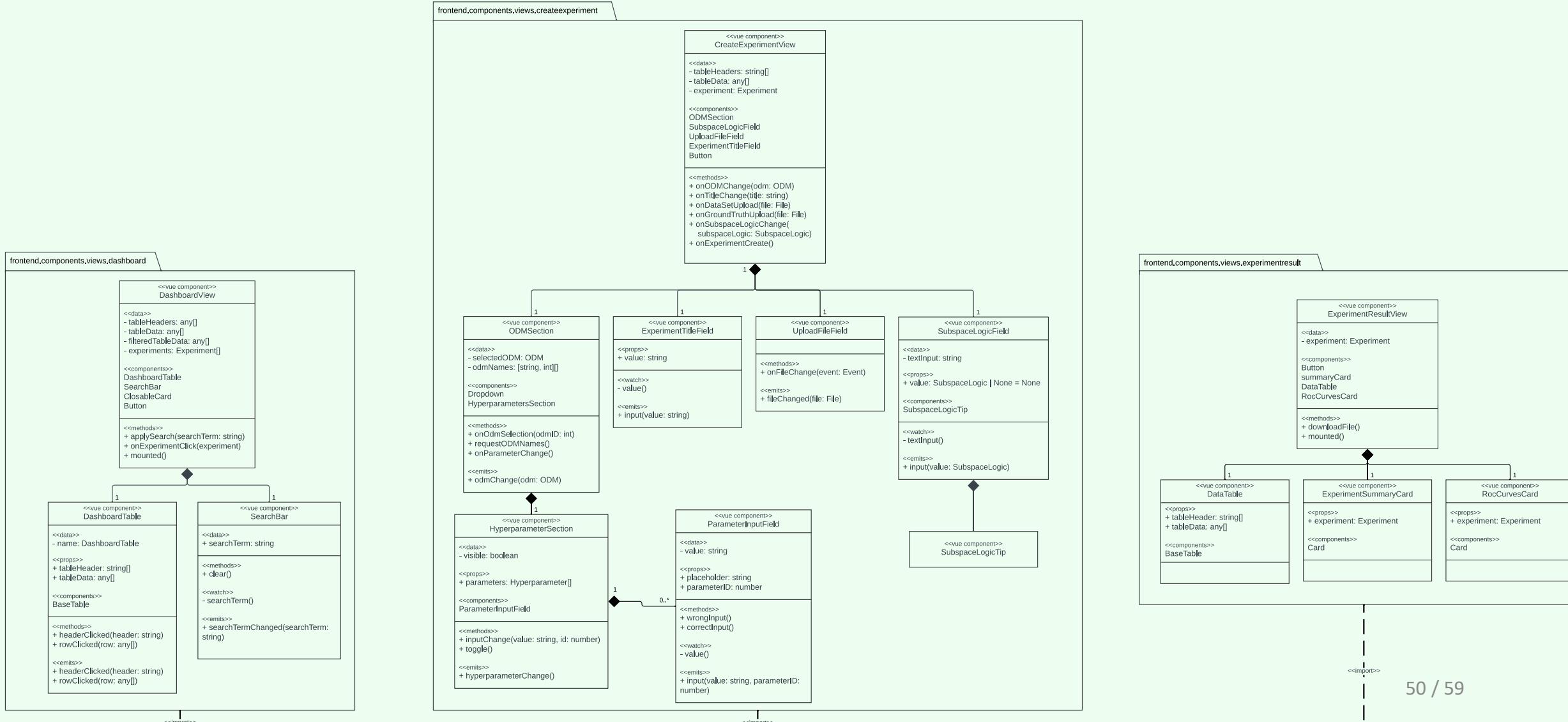
Frontend Dashboard View



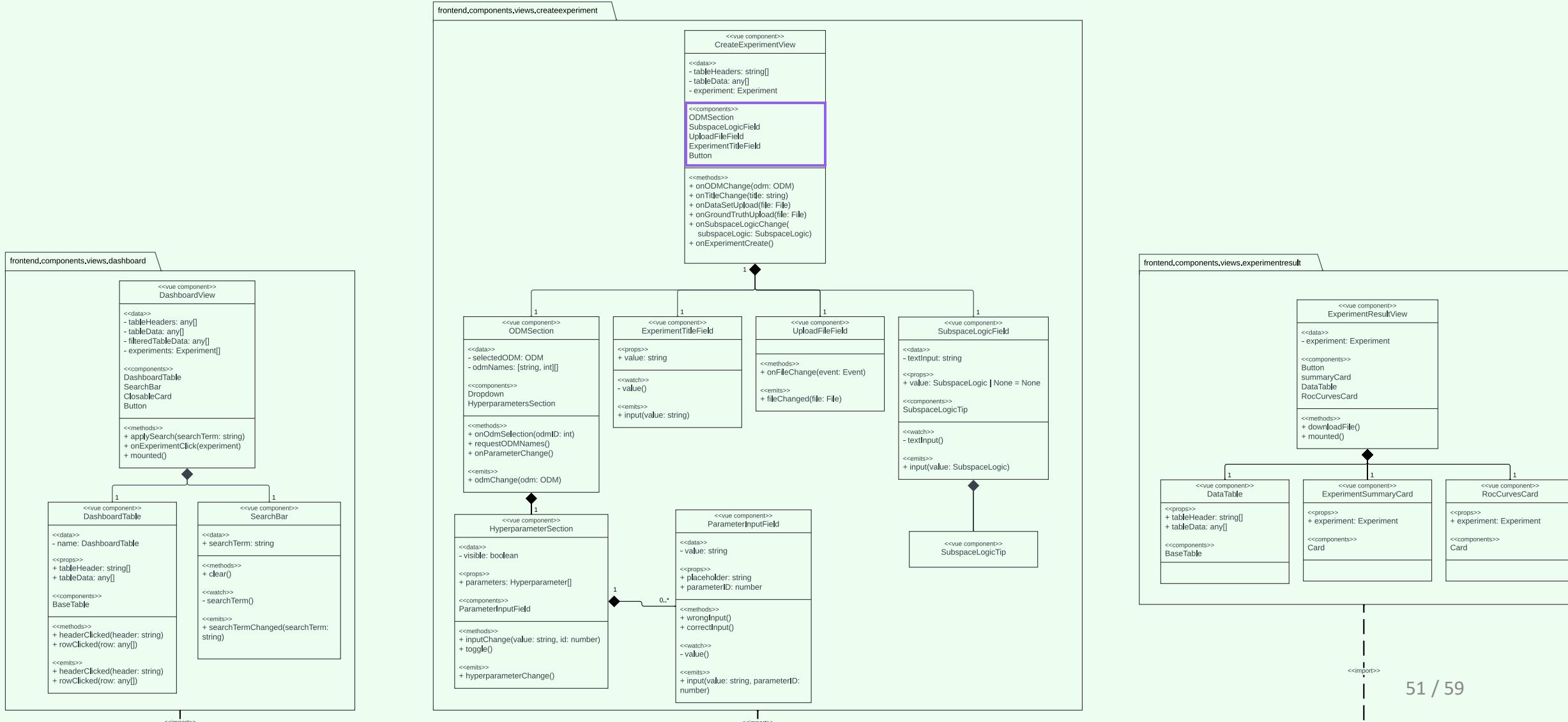
Frontend Dashboard View



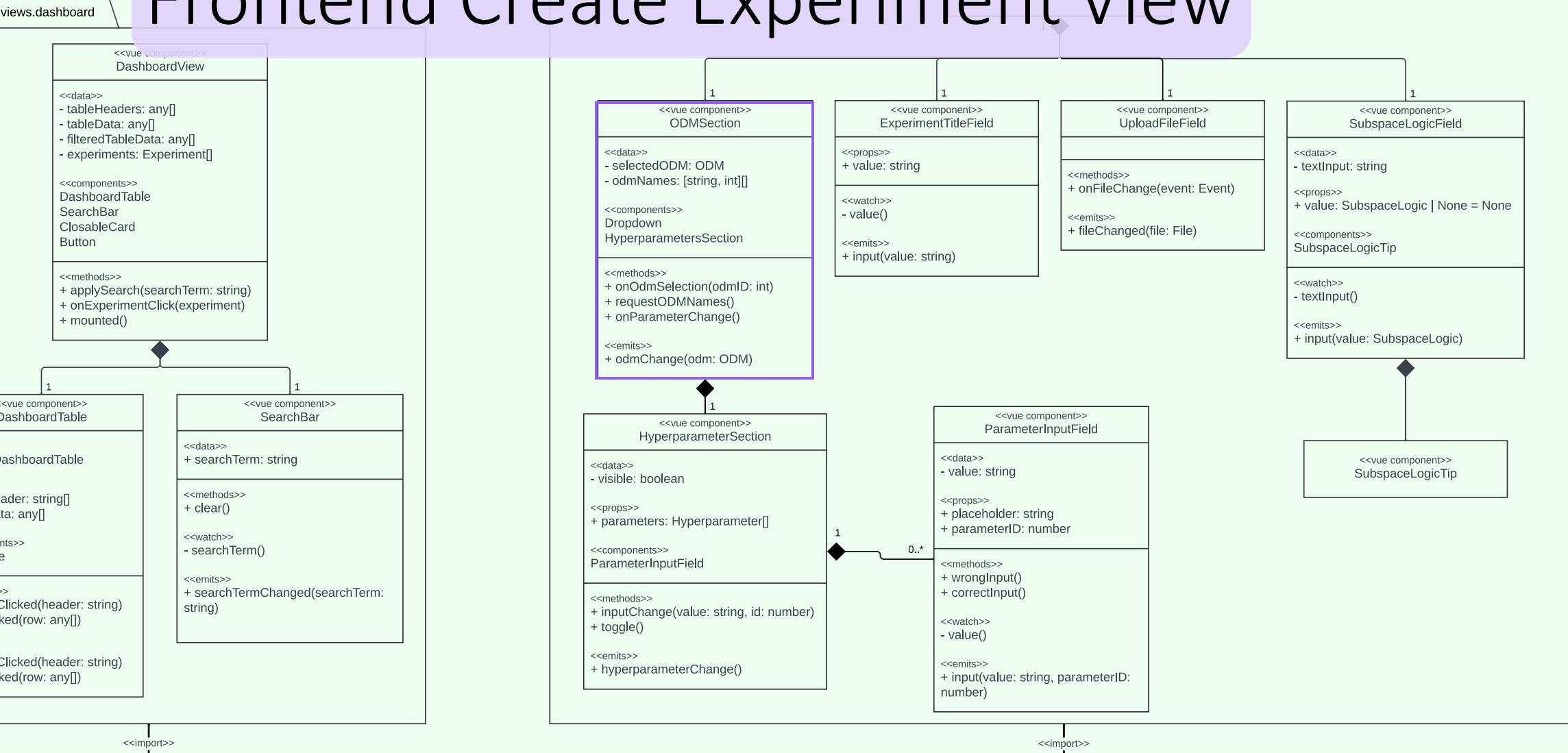
Frontend Create Experiment View



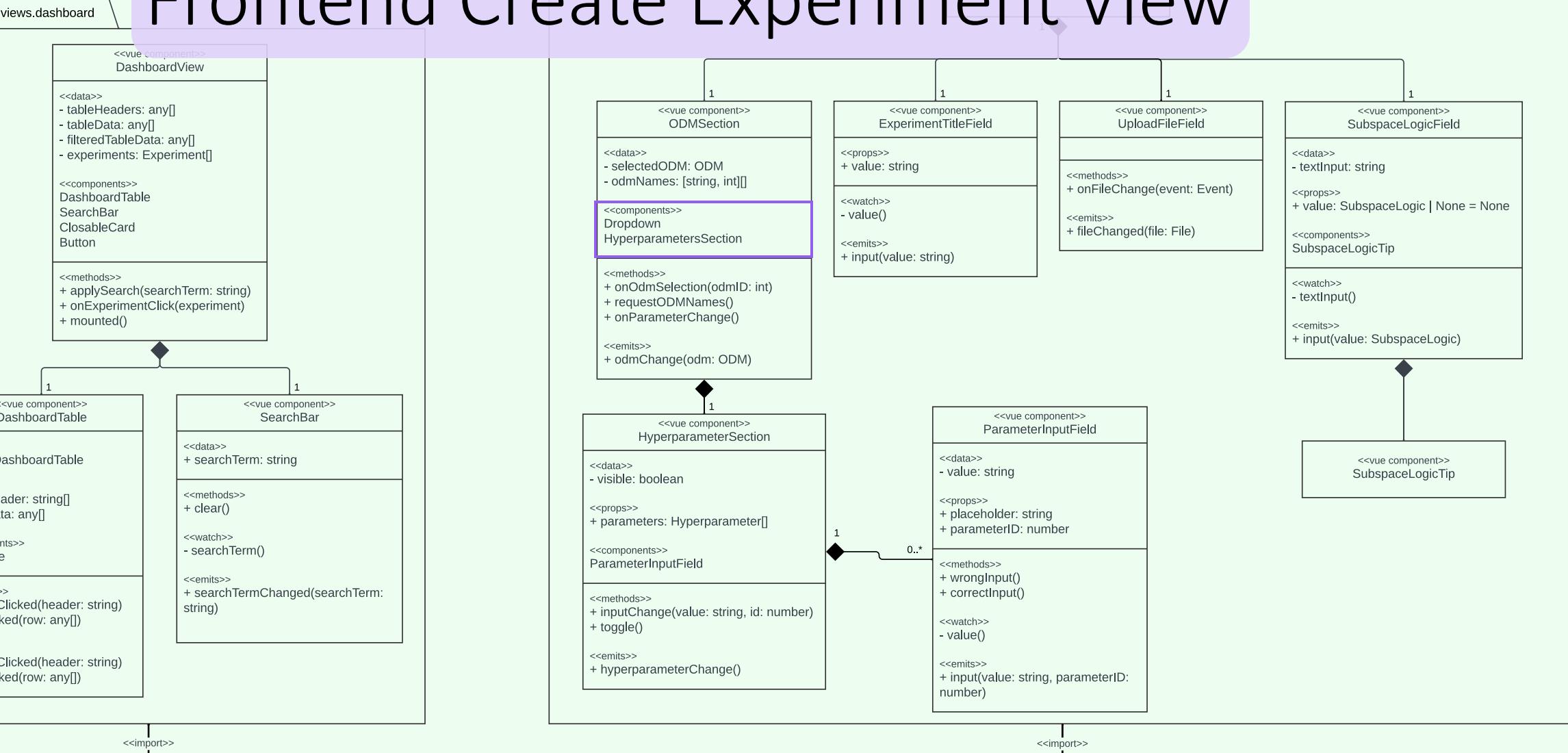
Frontend Create Experiment View



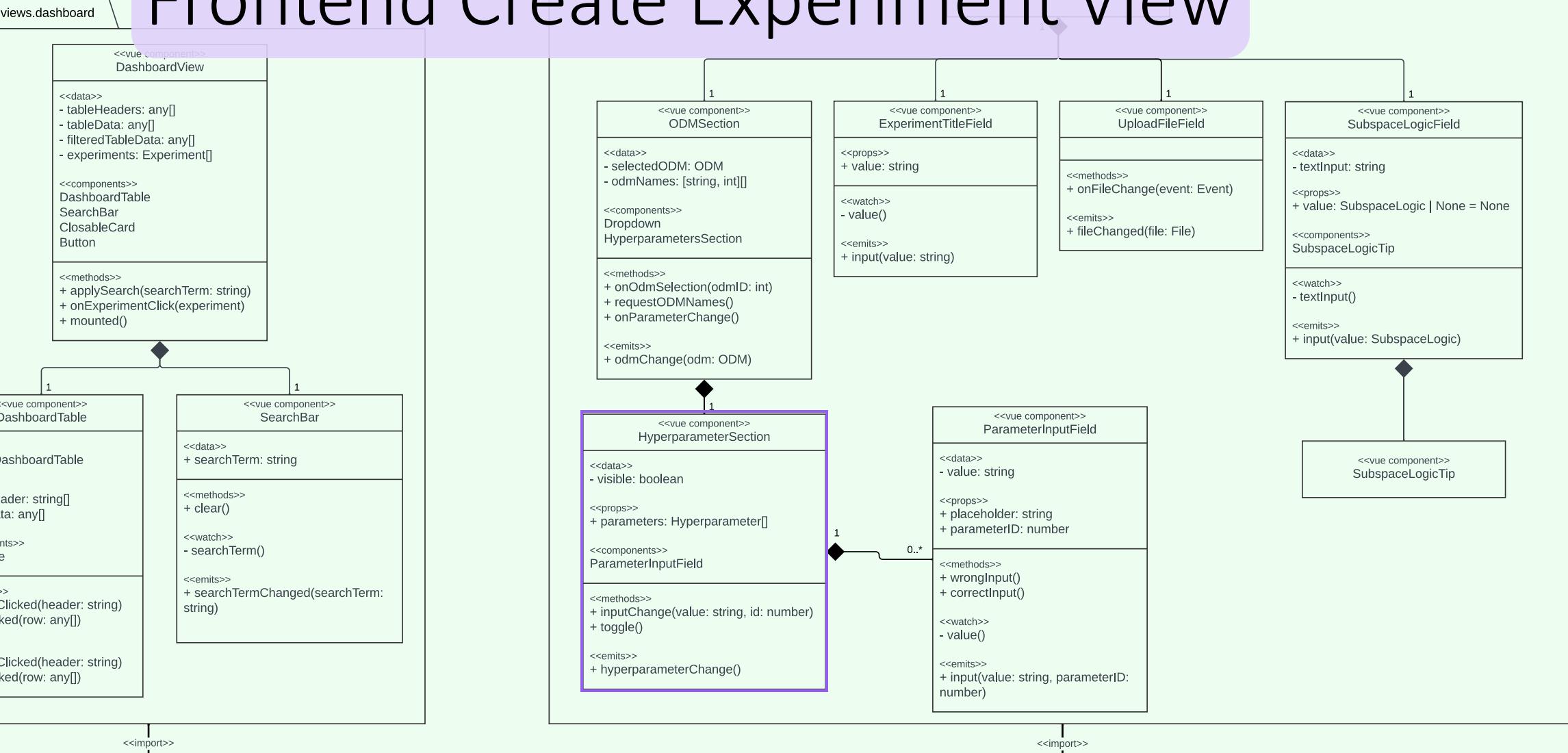
Frontend Create Experiment View



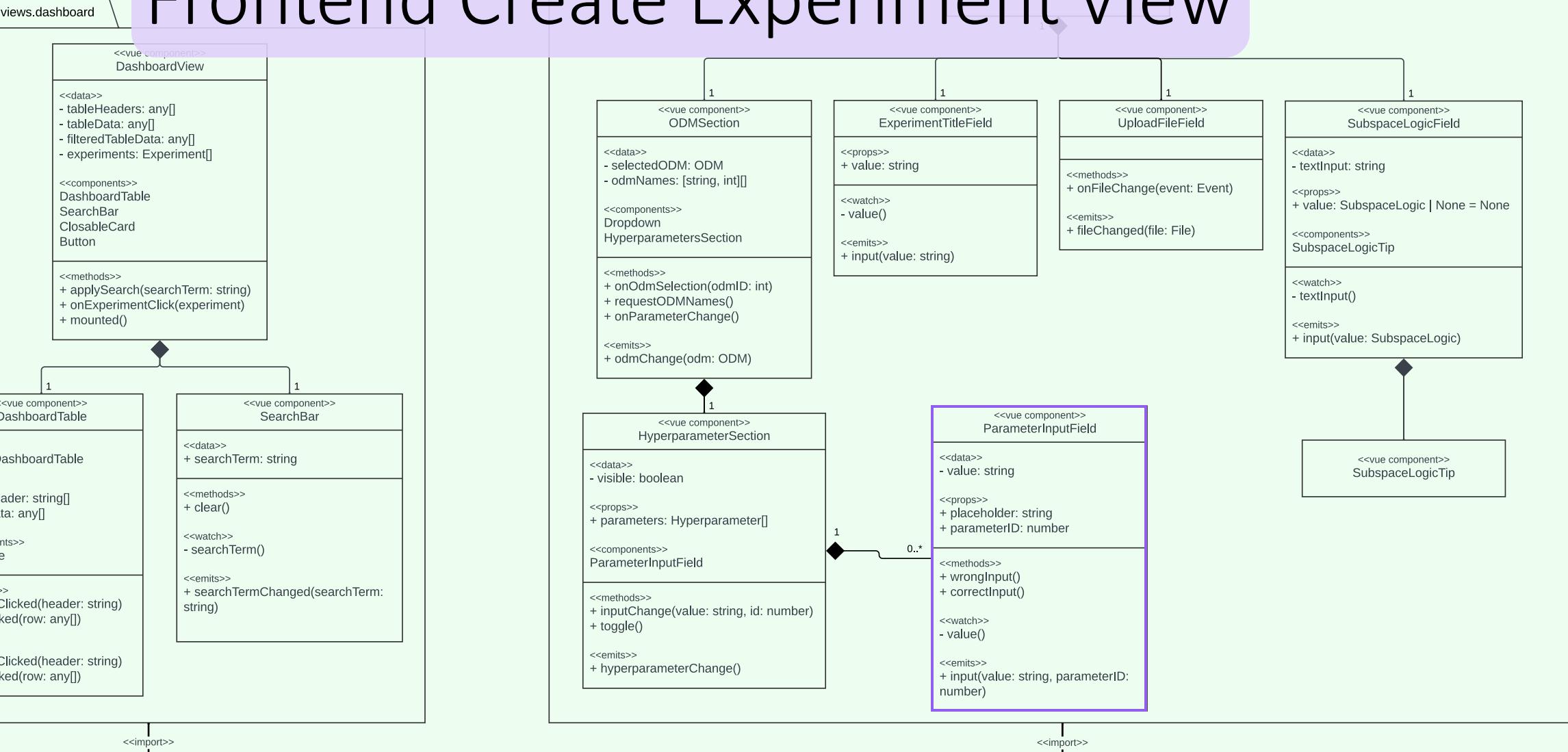
Frontend Create Experiment View



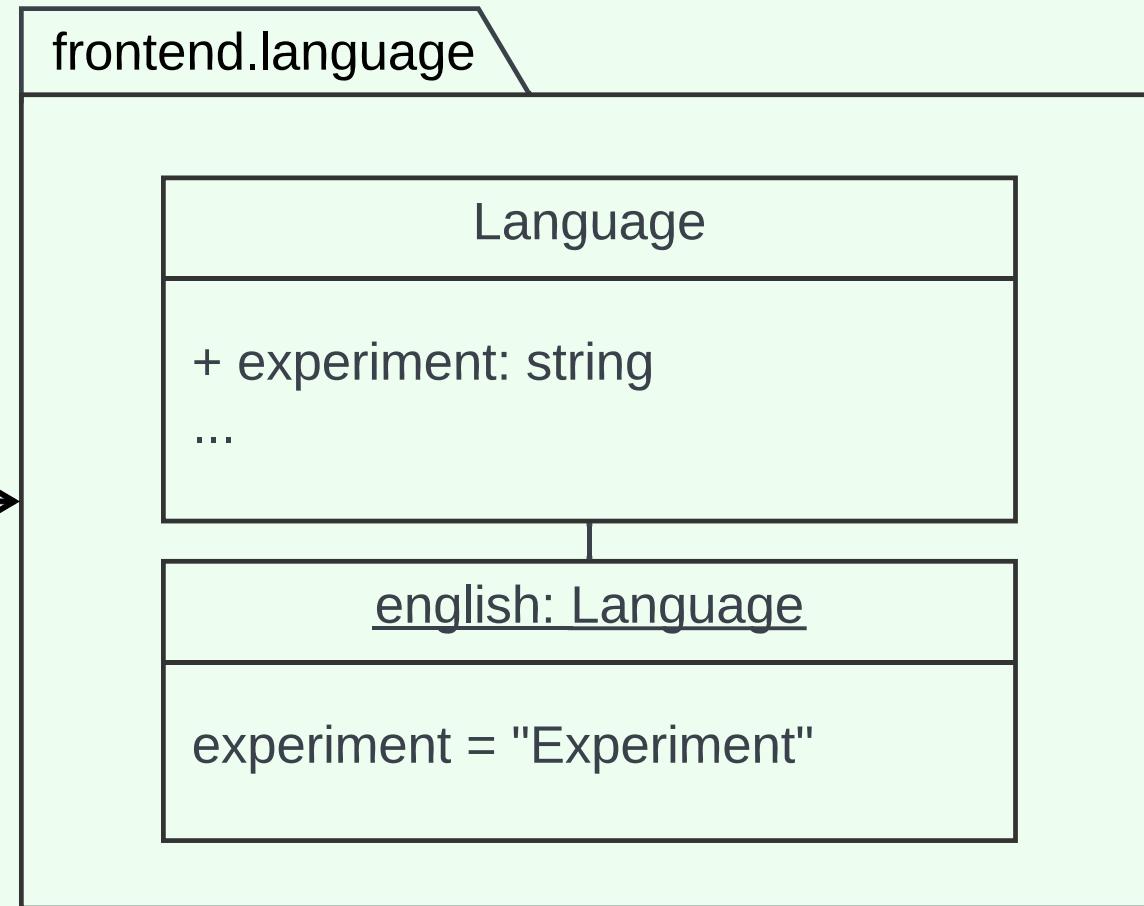
Frontend Create Experiment View



Frontend Create Experiment View



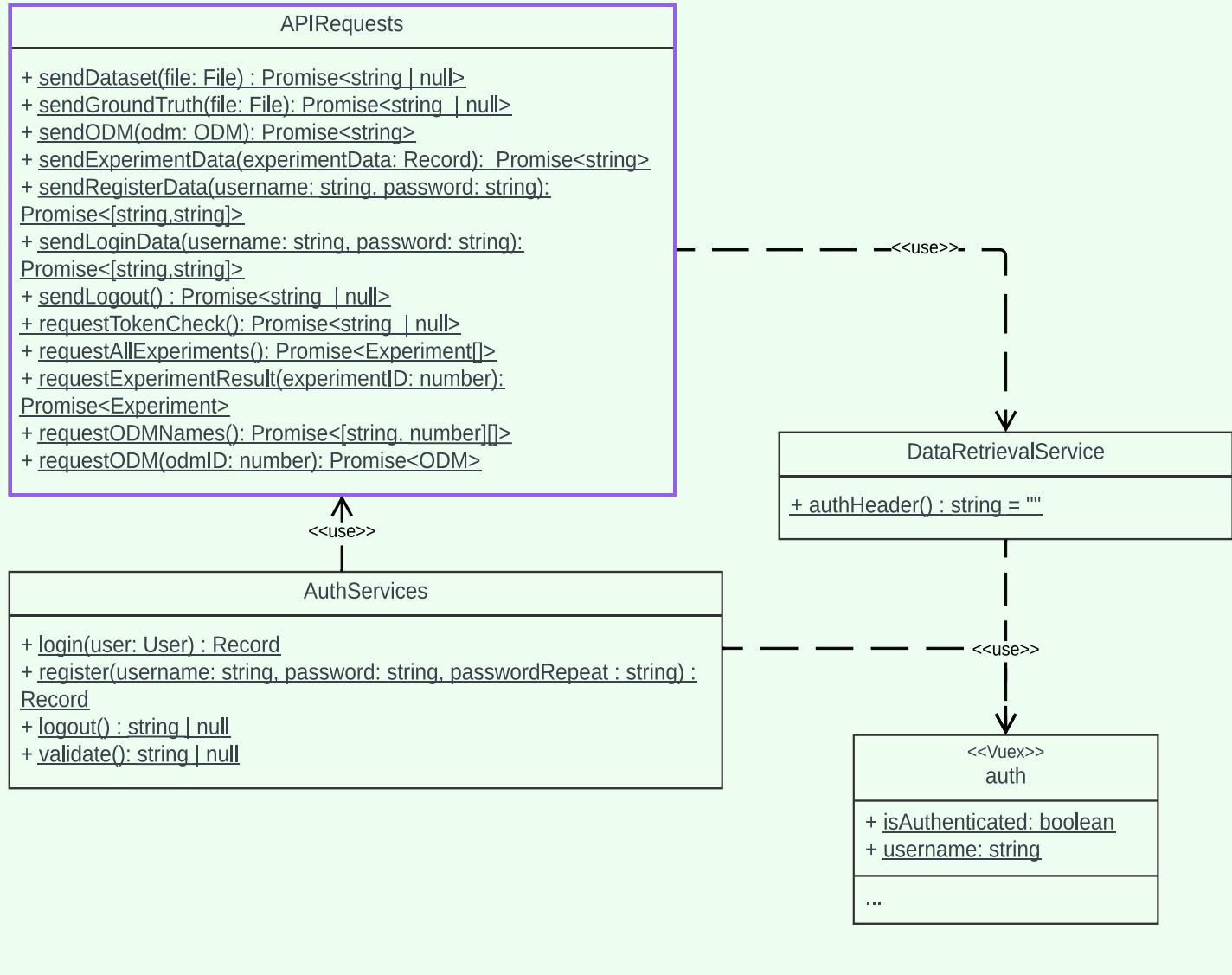
Frontend Language



Frontend API

frontend.api

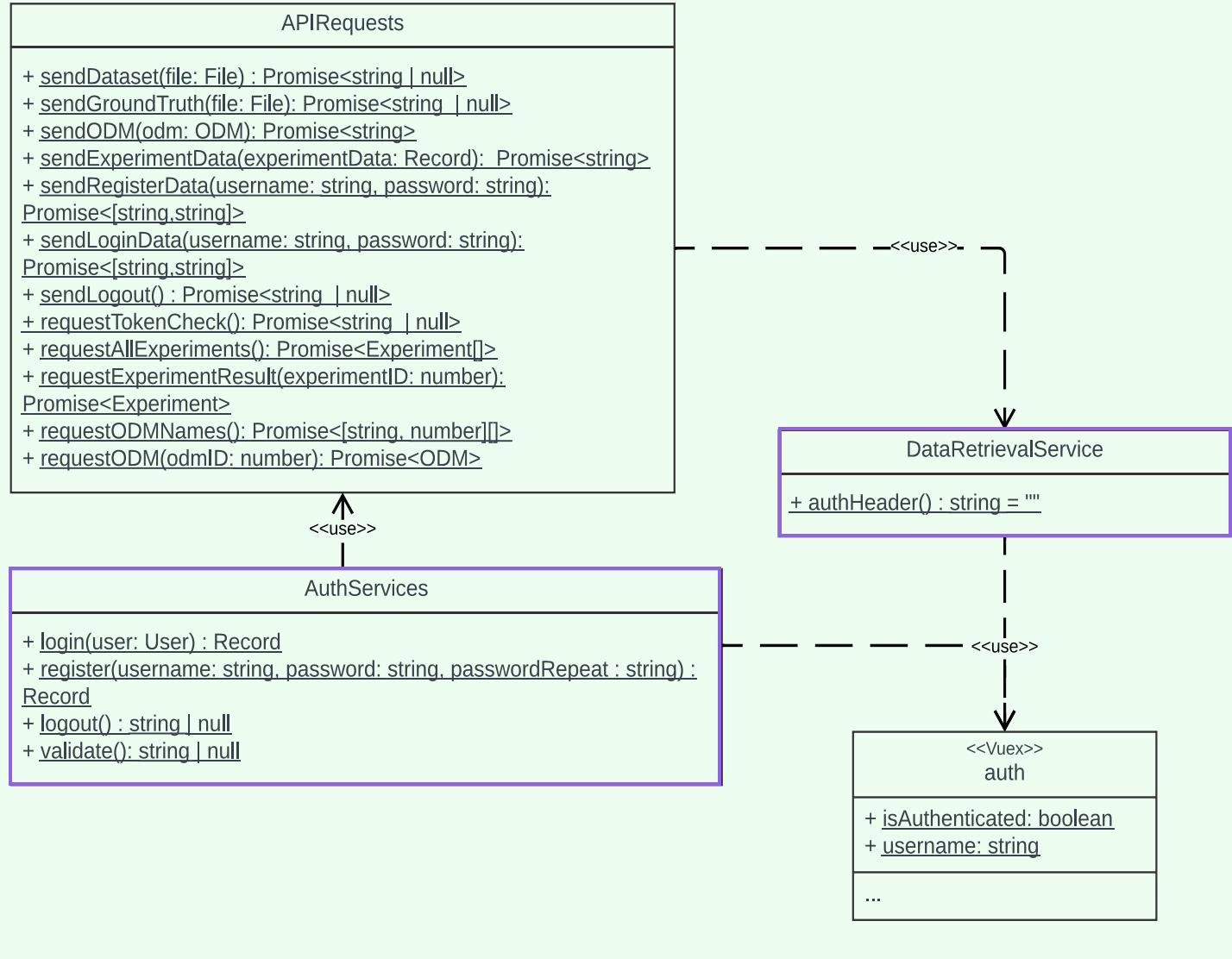
```
+ encode(subspaceLogic: SubspaceLogic): string  
- parseLiteral(literal): SubspaceLogic  
- parseOperation(operation): SubspaceLogic
```



Frontend API

frontend.api

```
+ encode(subspaceLogic: SubspaceLogic): string  
- parseLiteral(literal): SubspaceLogic  
- parseOperation(operation): SubspaceLogic
```



Overview

