

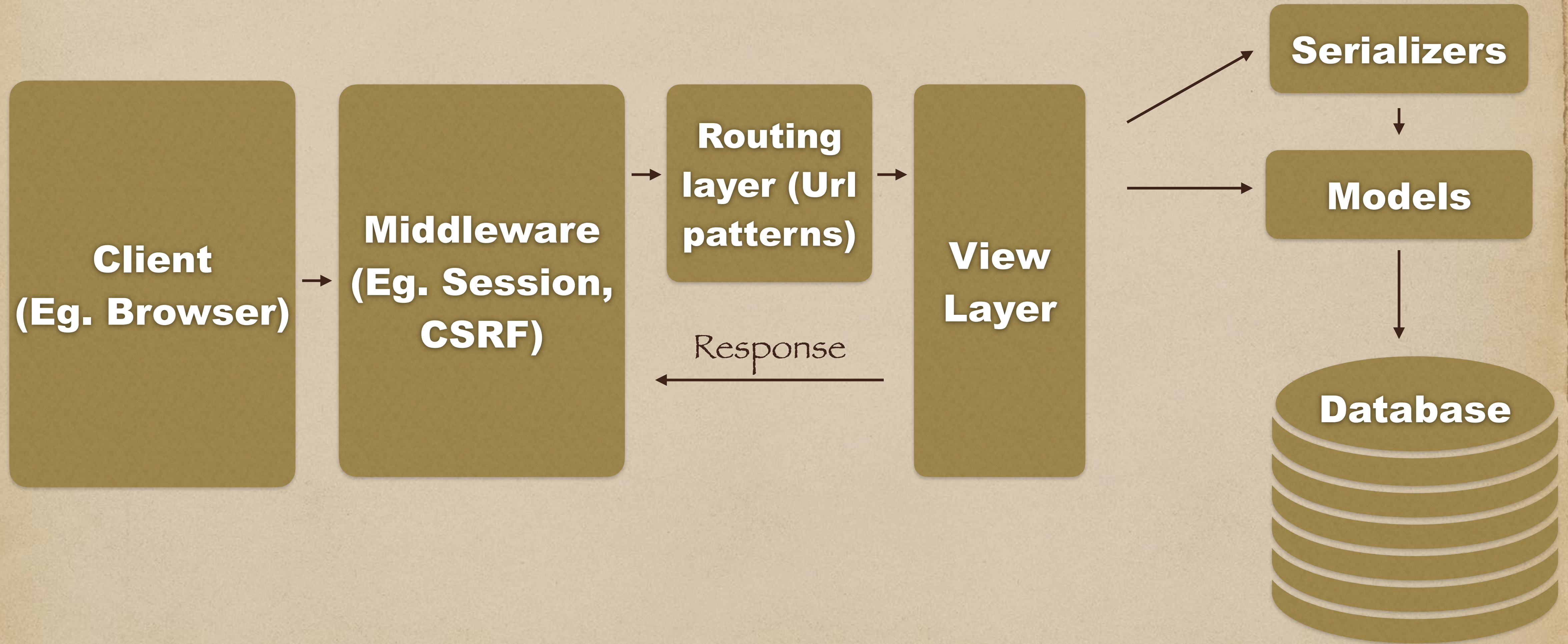


**Django REST framework:
Concepts behind different
types of routers and viewsets?**

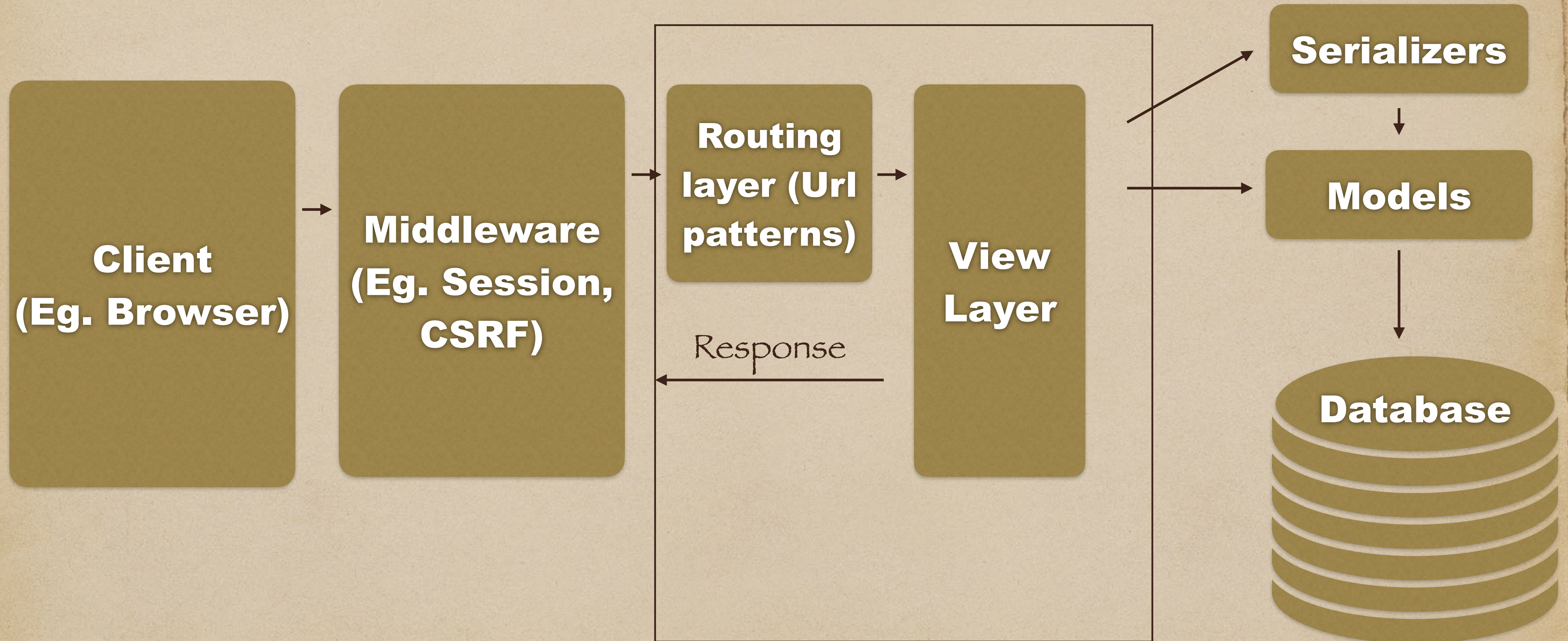
Agenda

- ♦ Basic architecture of django application
- ♦ Routing layer without routers
- ♦ Routing layer with routers
- ♦ Different types of routers in DRF
- ♦ Demo

Basic architecture of django application



Basic architecture of django application



Routing layer without router

Routing layer
Eg. Url patterns
in urls.py

- GET /blogs
- POST /blogs
- PUT /blogs/:id
- DELETE /blogs/:id

Url mapped to
handler function



View layer

- get(...)
- post(...)
- put(...)
- delete(...)

Routing layer with DRF routers

Routing layer

Rest framework

- SimpleRouter()
- DefaultRouter()
- CustomRouter()
- NestedRouter()

Url mapped to
handler function



Viewsets

- list(),
- create(...)
- retrieve(...)
- update(...)
- partial_update(...)
- destroy()

- {basename}-list(..)
- {basename}-detail(..)
-

Different types of router in DRF

- ♦ `routes.SimpleRouter()`
- ♦ `routes.DefaultRouter()`
- ♦ `routes.CustomRouter()`
- ♦ `routes.NestedRouter()`

Different types of router in DRF

- ♦ SimpleRouter: provide basic CRUD operations, includes routes for the standard set of list, create, retrieve, update, partial_update and destroy, can use @action decorator, does not include api-root view
- ♦ DefaultRouter: includes default API root view, that returns a response containing hyperlinks to all the list views. It also generates routes for optional .json style format suffixes eg./blogs.json/
- ♦ CustomRouter: Most often not required, inherits from Simple or Default router, can create routes only with specific patterns eg. Router to list all blogs or one blog but not create or update blogs
- ♦ Nested router: uses third party package <https://github.com/alanjds/drf-nested-routers>, can create multilevel routes with different viewsets supporting one url

Thank you

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