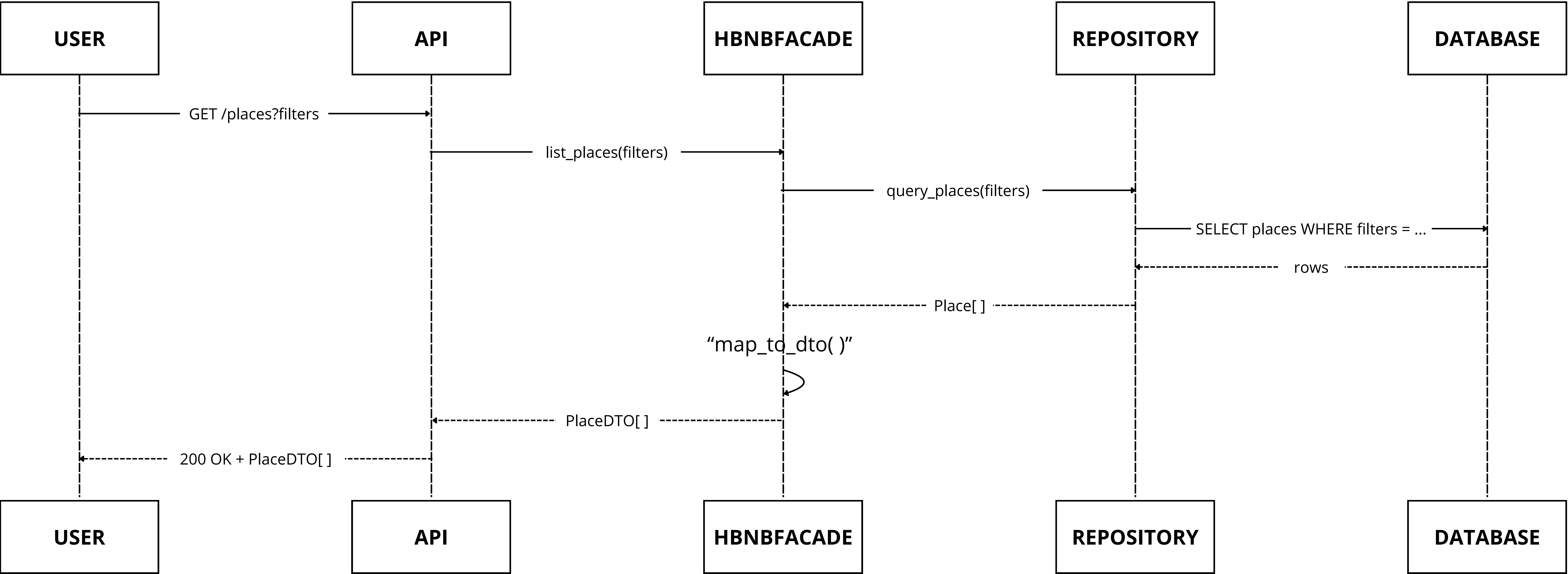


SD-04 — Fetching a List of Places (GET /places with filters)



Explanatory Notes:

Purpose :

- Return a filtered list of places.

Key steps :

- User sends GET /places with optional query filters.
- API forwards to HBnBFacade.list_places(filters).
- Facade requests Repository to query places (SELECT places WHERE filters...).
- Repository executes DB query and returns result set (rows) then Place[] entities.
- Facade maps entities to PlaceDTO[].
- API returns 200 OK + PlaceDTO[].

Layer responsibilities :

- Presentation (API): parses filters, calls facade, returns HTTP response.
- Business (HBnBFacade): orchestrates query request, maps entities to DTO list.
- Persistence (Repository/DB): executes SELECT and returns matching rows/entities.

Outputs / errors :

- Success: 200 OK + PlaceDTO[]
- Failure: typically 200 OK with empty list if no matches (unless you model invalid filters separately)