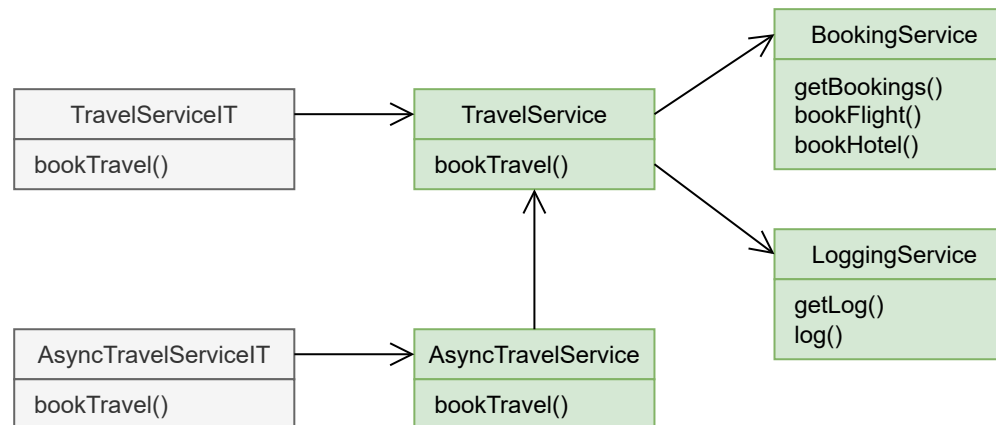


# Spring Core

## Exercise: Booking Application



1. Clone the GitLab repository Booking (<https://gitlab.ti.bfh.ch/cas-sad-hs25/spring-core/booking>) and create a Postgres database `booking`.
2. Implement a transactional travel service that allows customers to make travel bookings that consist of a flight and a hotel booking:
  - Flights and hotels are booked separately by the booking service
  - If one booking fails, the whole travel booking is canceled
  - The booking attempt and possible failures are logged using the logging service e.g.  

```
Book travel to London for Bob and Error: Hotels in London booked out
```
3. Run the `TravelServiceIT` integration test to test the service.

4. Set the logging level of the `org.springframework.orm.jpa.JpaTransactionManager` class to `DEBUG` and check the transaction management log.
5. Implement an asynchronous travel service that allows customers to book travels by sending a message (e.g. `Bob:London` ) to a booking queue.
6. Run the `AsyncTravelServiceIT` integration test to test the service.
7. Observe the different behavior depending on whether the listener method is transactional or not.

Solution (<https://gitlab.ti.bfh.ch/cas-sad-hs25/spring-core/booking/-/commits/main>)

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