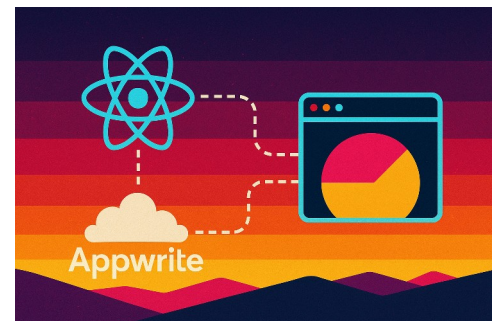# Project Java Web Development Introduction – BoxFit

BoxFit is a modern, web-based platform designed for a dynamic boxing gym located in Hamburg. The gym specializes in private boxing classes with experienced coaches, and this application has been created to make it easy for members to book sessions directly with their favorite coaches or the BoxFit management team.

Through the platform, members can log in, view available time slots, and book appointments — all while receiving instant confirmation when their booking is accepted. Beyond scheduling, BoxFit also offers a community space where users can share their training progress, post updates, and interact with other members by liking and commenting on posts. Once logged in, each user sees their upcoming appointments at the top of their dashboard, with community posts and member activity displayed below, creating an energetic and connected online experience.

## Infrastructure

The BoxFit application runs on a ReactJS front-end that talks directly to a back-end powered by Appwrite. Appwrite manages authentication, databases, and storage, making sure data stays secure and reliable. On the front-end, React and React Query handle the UI, state management, and logic, ensuring that everything feels smooth and responsive. Together, this setup makes the platform easy to maintain and scalable, so both members and coaches can focus on what matters most — boxing and community.



## BoxFit UML Diagram

The UML diagram below illustrates how the main components of the system connect and interact with each other.