System Context Diagram - c1 Anonymous User [Person] Web App Admin [Person] Anybody on the web who can view and book kite lessons, and create a user account and sign in. Web App admin who can sign in, and manage the kite lessons. Web App Super Admin [Person] Web App Customer Member [Person] Creates and manages Views and books kite lessons, Web App super admin who can manage accounts, sign in, manage the whole app. the kite lessons stomer who can view and book kite lessons and create an account and sign in. kite lessons using and can see their previous bookings Manages the whole app and history using Kitesurf lessons booking system (Software system) Web App to book kite lessons ZOOM IN Container Diagram - c2 -----Backend: Single-page App Frontend app with: Springboot context with Spring beans React functional components (Hooks), (Container: JavaScript, React) and gradle dependencies, Axios for api calls. Provides the functionality to the user JPA Hibernate (JPARepository) for basic CRUD operatins and Bootstrap v5 and some typed styling for css via the browser Mockito and h2 db for integration testing Makes API calls to MySQL image db running on Docker API App (Container: Java, Springboot) ---Reads from and writes to----Database Provides the functionality via Stores all the data JSON/HTTPS API ZOOM IN Component Diagram - c3 SignInController KiteLessonBookingController AdminKiteLessonController (Component: Springboot, Rest Controller) (Component: Springboot, Rest Controller) (Component: Springboot, Rest Controller) Allow users to sign in to the web Allow users to interact with available Allow admins to manage kite kite lessons lessons app KiteLessonBookingService AdminKiteLessonService SignInService (Component: Spring Service) (Component: Spring Service) (Component: Spring Service) Provides functionality to viewing and Provides functionality to Provides functionality to sign in booking kite lessons create/update kite lessons Repository Repository Repository (Component: Spring Repository) (Component: Spring Repository) Stores data about booked kite Stores users accounts' details Stores kite lessons Reads from and writes to Reads from and writes to ZOOM IN Reads from and writes to Class Diagram - c4 <<KiteLessonRepository>> KiteLesson Database Stores all the data <<BusinessUseCase>> BusinessUseCaseImpl KiteLessonDTO KiteLessonController -----: