### **Zarttech ESOP Contract Architecture**

### The EmployeeStockOptionPlan contract consists of the following components:

* **Owner**: Represents the address of the Zarttech or the Administrator who has exclusive access to certain functions.
* Employee struct: Defines the data structure to store employee-related information such as granted, vested, and exercised options, vesting schedule, and transfer eligibility.
* **Mapping**: Uses a mapping to associate employee addresses with their respective Employee struct instances.
* **Events**: Emits events to log important contract actions, such as granting options, setting vesting schedules, exercising options, and transferring options.
* **Modifiers**: Provides access control by defining modifiers to restrict function execution to the contract owner or authorized employees.
* **Constructor**: Initializes the contract by setting the deployer as the contract owner.
* **Functions**: Implements various functions to grant stock options, set vesting schedules, exercise options, retrieve vested and exercised options, and transfer options.