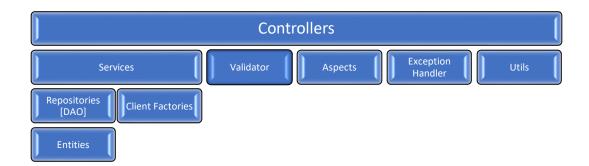
Mobile Info Application High Level Architecture

Contents:

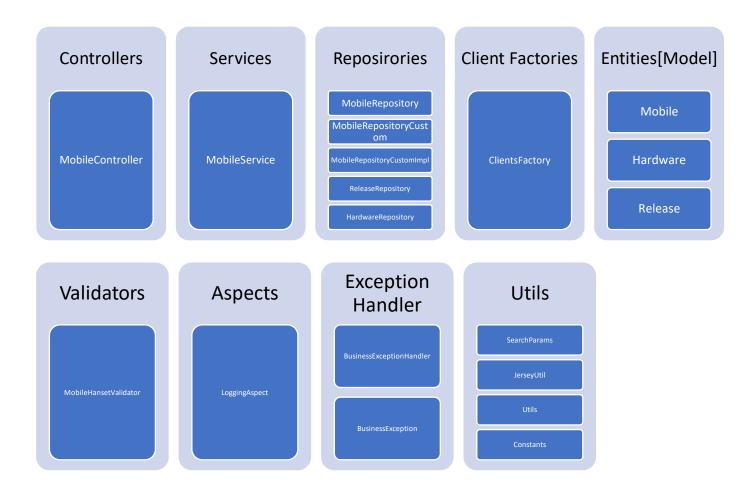
- System Architecture
- Architecture Classes
- Search Process Flow

System Architecture:

- Controllers
- Services
- Repositories (DAO)
- Aspects
- Exception Handler
- Client Factories
- Validators
- Utils



Architecture Classes:



Controllers

- MobileController:
 - o Mobile API Endpoint
 - o load: loading data from data client API to save it in our application data base
 - o find: search for mobile data by one, more or no parameters

Services:

- MobileService
 - o Business Layer for implement required business logic on data
 - o LoadAllMobiles: used to load mobile data in application data base
 - o *findMobiles*: used to search for mobile by required parameters

Repositories:

- MobileRepository
 - Data Access Layer contains default methods for add, edit, delete, search Mobile Data
- MobileRepositoryCustom
 - o Custom repository interface for customize queries for Mobile in DB
- MobileRepositoryCustomImpl
 - o Customized queries implementation for Mobile data in DB
- HardwareRepository
 - Data Access Layer contains default methods for add, edit, delete, search Hardware Data
- ReleaseRepository

 Data Access Layer contains default methods for add, edit, delete, search Release Data

Aspects :

- LoggingAspect :
 - Generic Logging Aspect for logging methods inputs (showing how to act with aspects)

Exception Handlers:

- BusinessException:
 - o Customized Runtime Exception for logging throwed exception.
- BusinessExceptionHandler:
 - Custom Exception Handller for controller that return failed message in case of throws exception.

Client Factories

- ClientsFactory:
 - o Factory class that interact with all clients to unify remote clients Handlers.

Validators

- MobileHansetValidator:
 - o Mobile Controller Validator class to validate controller data

Utils:

Contains util classes and function that is used many times in the application

- Constants:
 - Unify constants Class in case of modify it easy and can be available for all classes.
- JerseyUtil:
 - o Util Class for handle calling remote service endpoint
- SearchParams:
 - o Enum used to validate parameters sent by user in search request
- Utils:
 - Contains some generic util methods like converting from JSON to String and vise versa

Search Process Flow:

