**Car Rental – Back-end Code Test- Deployment View and Improvements**

**Deployment Architecture:**

CarRental api is implemented in .net rest api architecture and implemented using MediatR pattern to achieve the segregation of responsibility for command and query operations, MediatR also supports the decoupling of components, clean and organised code. API can be deployed to Azure Cloud under any hosting plan as container service or webapp.

With minor changes we can deploy in Az Functions(Server less) as well.

**Improvements in existing implementations**

1. Unit test need to be added properly.(currently only base implementation is there)
2. Use Fluent validation to validate command objects
3. Add Validation behaviour in request pipeline
4. Centralised exception handling to avoid try catch
5. Add central logging behaviour in pipeline
6. To deploy supported application infrastructure we can write IaC templates(using terraform or bicep) and we can use yml pipelines for devops