

Part-3: Car rental system - nationwide.

Answer:

a) *Find the architectural characteristics of the ticket system?*

- Availability
- Scalability
- Performance
- Simplicity
- Security
- Fast deployable
- Maintainability

b) *Write one or more scenarios for each architectural characteristic*

- Availability:
 - Customer has to be able access the services anytime they want
- Scalability:
 - Should be very scalable since this is a nation wide and has to support huge user base
- Performance:
 - It has to be high performant
- Simplicity:
 - The system has to be customer(user) friendly
- Maintainability:
 - Everytime there is a change made or a new system is introduced the process should be easy and shouldn't affect another service
- Fast Deployable:
 - The deployment workflow has to be as simple and fast as possible. Since there is going to be a regular update and release of a new version
- Security:
 - Some operations need to be secured like payment related features

c) *Define your architecture in one or more diagram(s). Show as many architecturally important aspects as possible.*

