

Ski Resort Management Software

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Project Statement

An app, wrapping **Java** software and **SQL** database, that allows management of a ski resort: **Guests + Tickets creation and routine checks.**

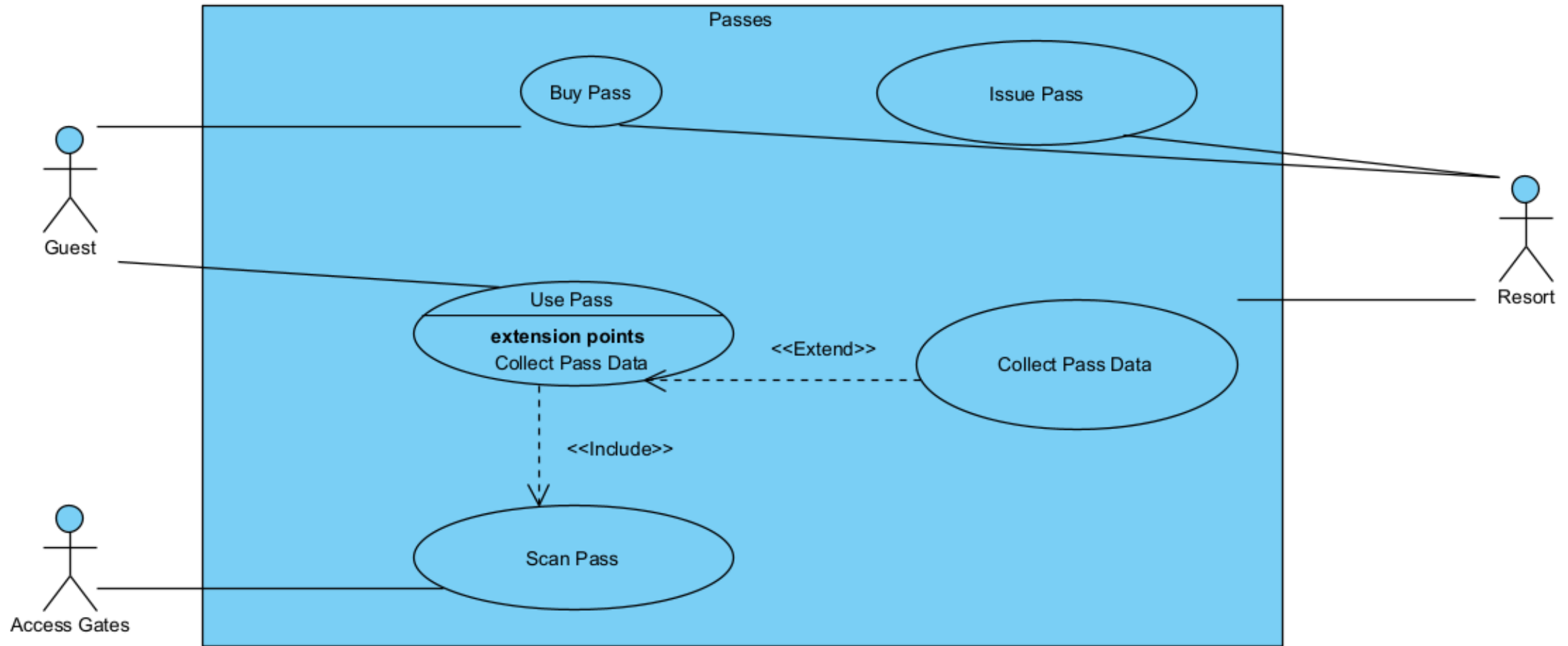
The app mirrors current **UML industry standards**, such as **MIP** and **no-HPE**.

- UML Model Tool Used: **Visual Paradigm**
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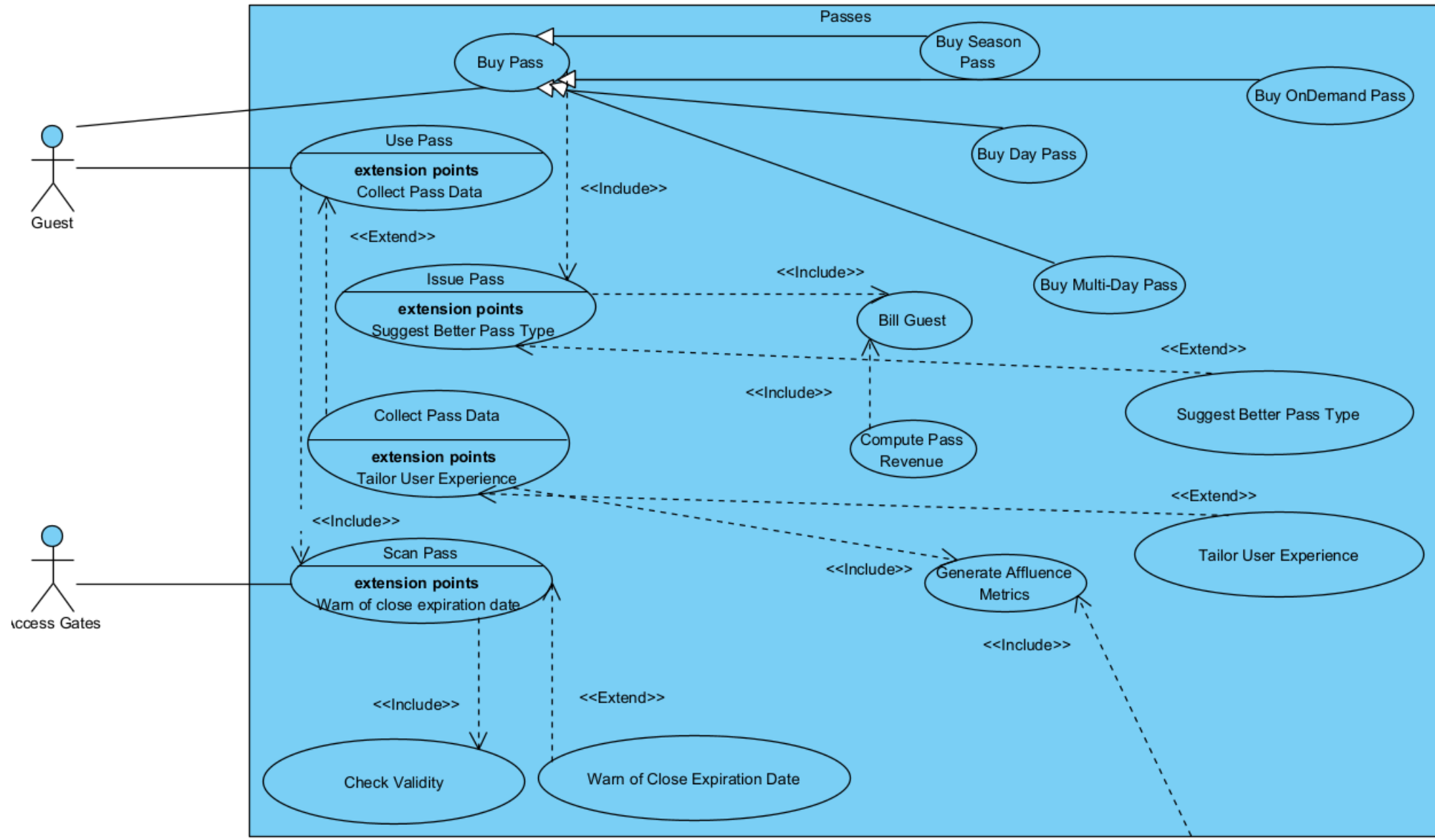
Use Case List

- Passes:
 - Buy
 - Issue
 - Use
 - Scan
 - Collect Usage Metrics
- Person:
 - Search
 - Create
- Events:
 - Advertise
 - Suspend
 - Log Usage Stats
 - Issue Warning
 - Send Alert
 - Update Map
- Terrain
 - Search
 - Log Lift use

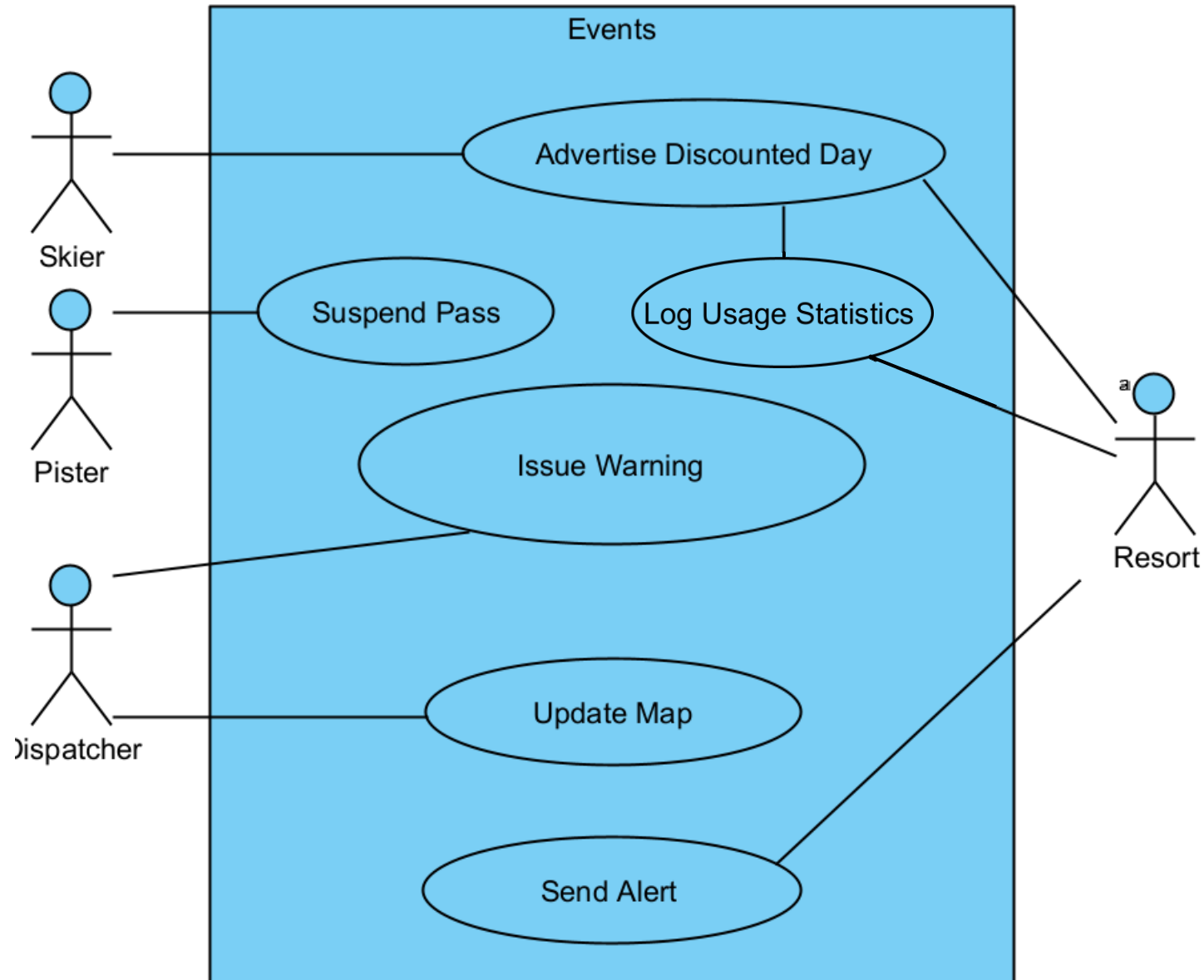
Use Case Diagram – Passes (Simple)



Use Case Diagram - Passes



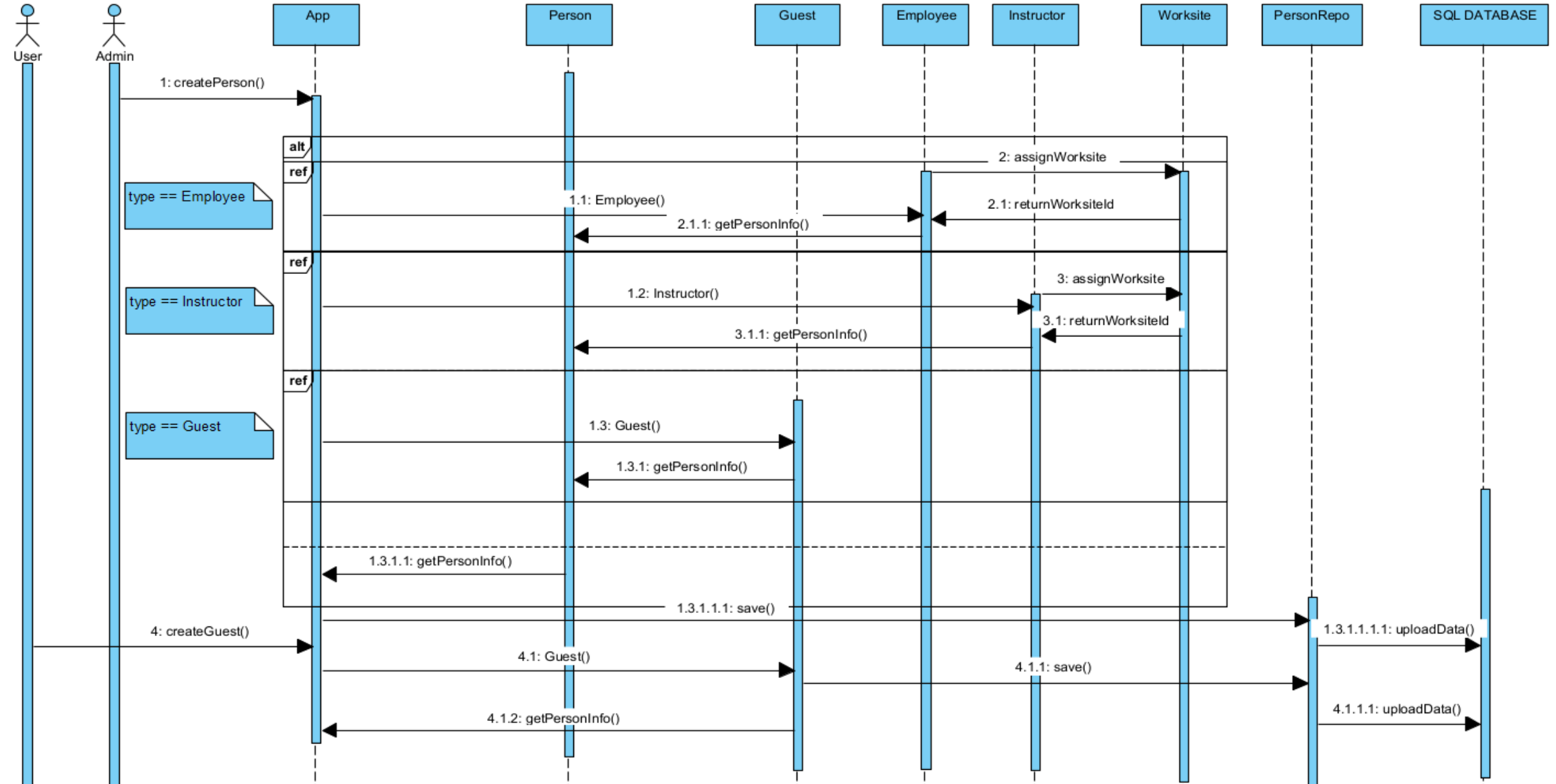
Use Case Diagram – Events (Simple)



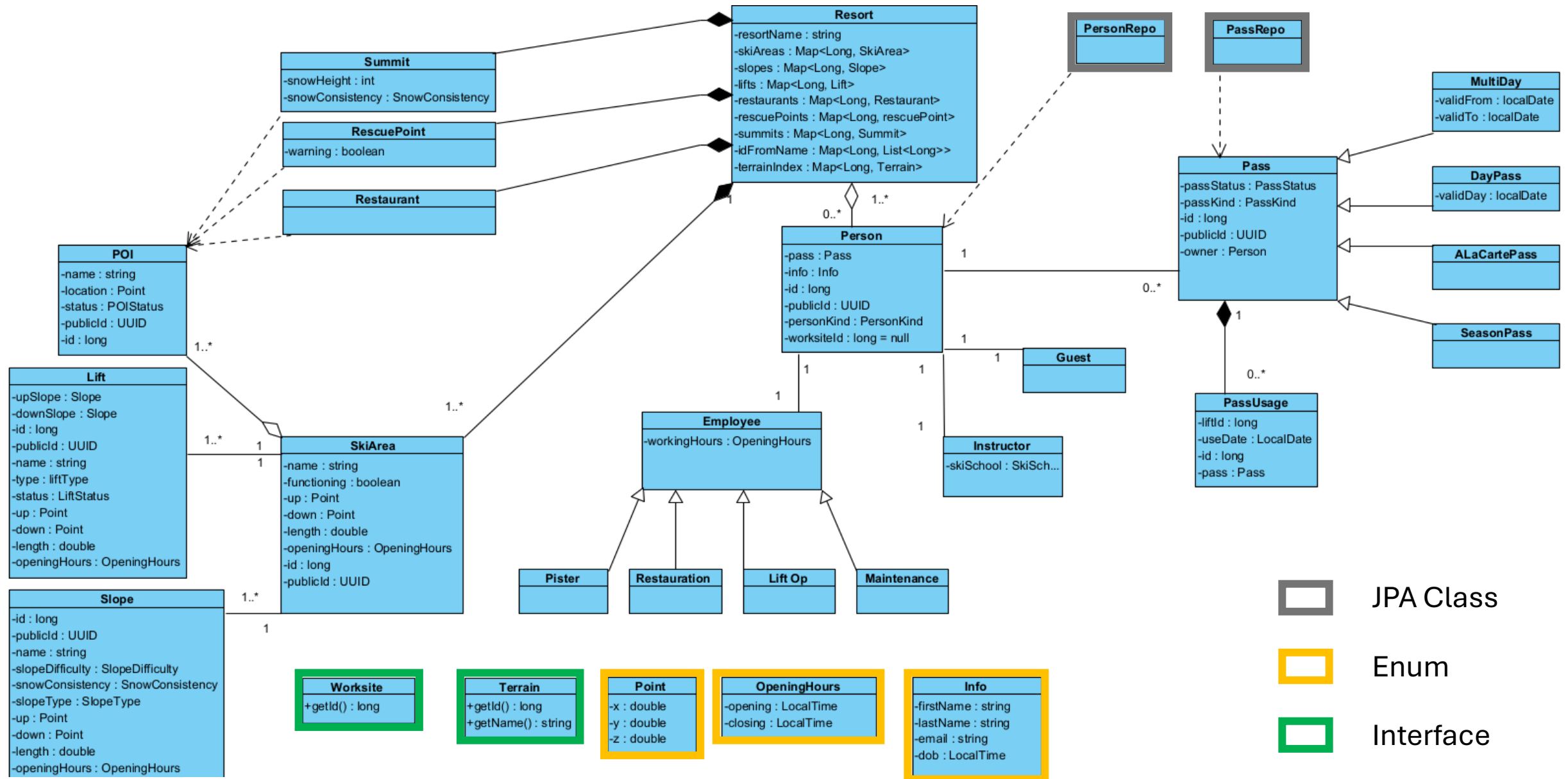
Use Case Diagram - Events



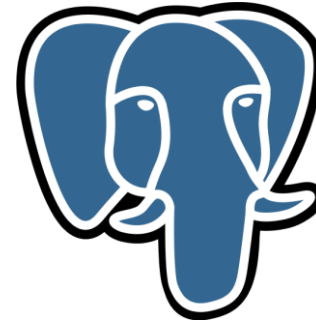
Sequence Diagram – Person Creation



Class Diagram



Java App



- Build: Java SDK 23 + Maven 4
- Dependencies: Hibernate, JPA Jakarta, postgresSQL, HikariCP
- Source Of Truth:
 - Terrain (frequent access, few entries): DB => instance at startup
 - Pass, People (frequent access, lots of entries): instance => DB at instantiation

Thank you for listening



- Link: <https://github.com/PapayaSupreme/SkiResort>
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