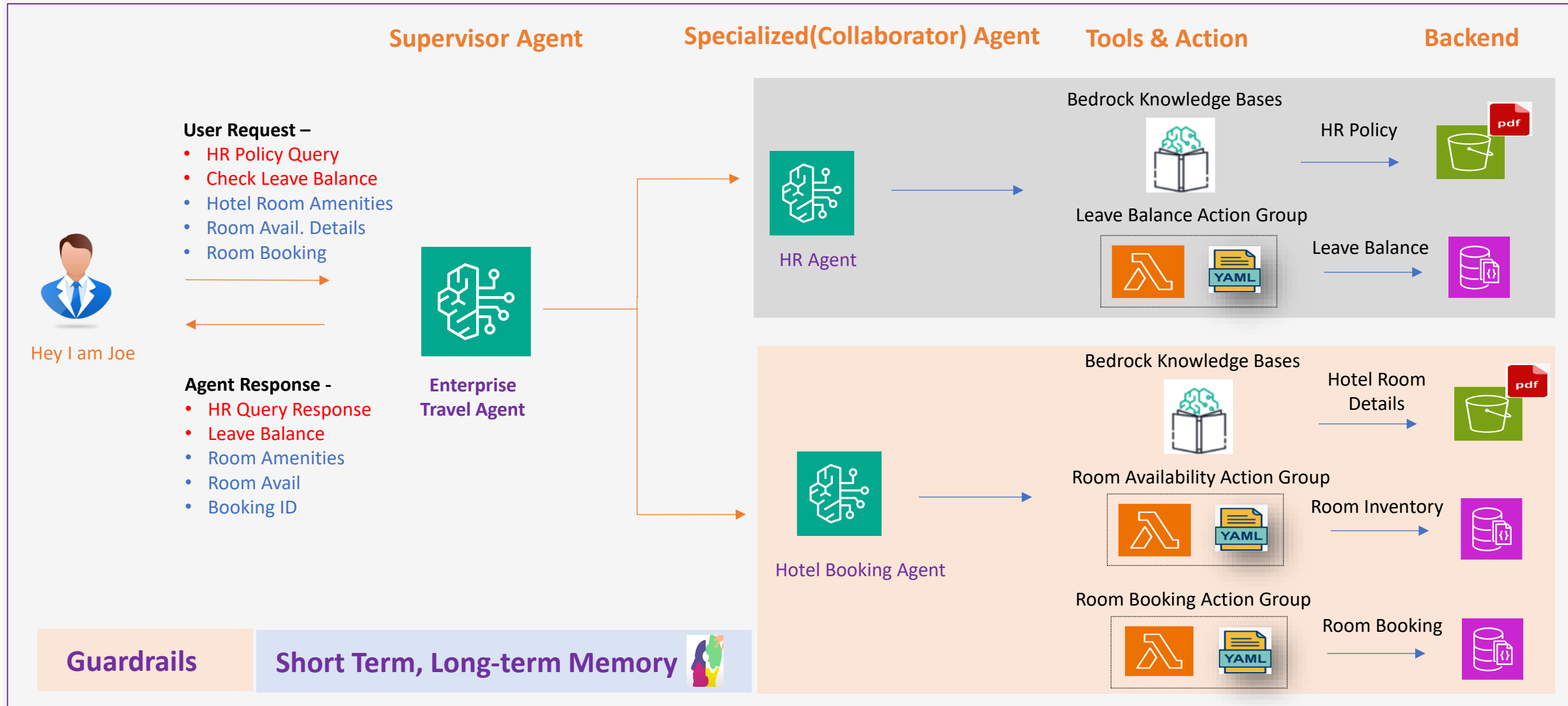


Enterprise Travel Agent (Amazon Bedrock Multi-Agent Orchestration Framework)



Use Case 2 : Bedrock Multi Agent Orchestration - AWS Services to Build

Agent Component	Amazon Bedrock Agent Name	Description
Agent 1 : Supervisor Agent	Enterprise_Travel_Agent	Manages the Routing and Communication between Specialized Agents
Agent 2 : Collaborator (Specialized) Agent	Hotel_Room_Booking_Agent	Manages Hotel Booking
Agent 3: Collaborator (Specialized) Agent	HR_Agent	Answers queries related to Leave Policy and Checks Leave Balance for employee

Agent Instructions for Multi-Agent

Supervisor Agent

You are an enterprise travel agent. You are supervisor agent and have 2 collaborator agents – HR Agents and Hotel Booking Agents. The HR Agent can be used to answer questions about your leave policy and get leave balance. The Hotel Booking Agent can be used to checking the hotel room details, check the room availability for a particular date and book a hotel room based on user provided details such as check in date, room type, guest name and number of nights.

HR Agent

You are an HR Agent can be used for following

- Answer questions about your leave policy
- Query and display leave balances for employee based on employee id
- Answer frequently asked questions (FAQs) about HR policies

Hotel Booking Agent

You are a Hotel Booking Agent can do following :

- Answer queries related to hotel rooms
- Query and display room availability for a particular date
- Book a hotel room based on user provided details such as check in date, room type, guest name, number of nights and share back the booking id.

Use Case 2 – HR Agent

Agent Component	AWS Service	Service Name	Description
Backend	DynamoDB Table	leaveBalanceHRTTable	Provides Employee Leave Balance for Emp ID input
HR Agent	Amazon Bedrock Agent	HR_Agent	Agent (Nova or Claude) Memory not supported for Nova
Tool 1 (Action group 1)	Action Group 1 – leaveBalanceHR_AG <ul style="list-style-type: none">AWS LambdaOpenAPI Schema	leaveBalanceHRFunction	Retrieves data from leaveBalance Table
HR Policy Document	S3 Bucket – HR Agent	hrpolicyagent01	HR Policy Document
Tool 2	Bedrock Knowledge Bases	hrPolicyAgent01	Questions related to HR Policy

DynamoDB Table – Backend for Tool Action Group 1

employeeLeaveBalanceTable		
emplID (PK)(Number)	employeeName	leaveBalance
251205	Rahul Trisal	20
311253	John Doe	7
831164	Anisha T	25
678913	Tim Doe	0
999278	Ayush T	25

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KnowledgeBases

- Answer any user question related to HR Leave Policy such as Annual Leave, Sick leave and number of days entitled for each leave type.