**Implementation Report for GIBS Partner Agency JSON API Enhancements**

**Overview**

This document outlines the changes and additions made to the GIBS Partner Agency JSON API to enhance authentication, policy management, and dashboard metrics.

**1. Authentication Enhancement**

**Agent Authentication Endpoint**

* **Purpose:** Enables agents to authenticate and retrieve data securely.
* **Endpoint:** POST /api/v1/agent/authenticate
* **Request:**
* {
* "appID": "agent@example.com",
* "password": "securepassword"
* }
* **Response:**
* {
* "token": "jwt-token",
* "agent\_id": "12345"
* }
* **Implementation:**
  + Developed an authentication mechanism using JWT tokens.
  + Implemented token validation middleware for secure access.

**2. Policy Management**

**Existing Individual Policies**

* **Endpoint:** GET /api/v1/policies/individual
* **Implementation:**
  + Retrieves policies tied to authenticated agents.
  + Returns policy details including number, holder name, coverage, and status.

**New Group Policy Creation**

* **Endpoint:** POST /api/v1/policies/group
* **Implementation:**
  + Validates and registers new group policies.
  + Stores group details, member data, and coverage details.

**Retrieve Existing Group Policies**

* **Endpoint:** GET /api/v1/policies/group
* **Implementation:**
  + Fetches all group policies with full details.

**Policy Search**

* **Endpoint:** GET /api/v1/policies/search
* **Query Parameters:**
  + policy\_number
  + holder\_name
  + status
* **Implementation:**
  + Allows searching by policy number, holder’s name, and status.
  + Optimized query for faster retrieval.

**3. Dashboard Metrics Endpoints**

**Total Insured Count**

* **Endpoint:** GET /api/v1/dashboard/total\_insured
* **Implementation:**
  + Counts the number of unique insured individuals/groups.

**Total Payments Count (Sales)**

* **Endpoint:** GET /api/v1/dashboard/total\_payments
* **Implementation:**
  + Retrieves the number of payment transactions.
  + Data sourced from DNCNnotes table where NoteType='RCP'.

**Total Claims Count**

* **Endpoint:** GET /api/v1/dashboard/total\_claims
* **Implementation:**
  + Counts the total number of claims.
  + Data sourced from ClaimReserved table.

**Individual Total Active Policies**

* **Endpoint:** GET /api/v1/dashboard/individual/active\_policies
* **Implementation:**
  + Retrieves the number of individual policies.

**Group Total Active Policies**

* **Endpoint:** GET /api/v1/dashboard/group/active\_policies
* **Implementation:**
  + Retrieves the number of group policies.

**Conclusion**

All requested features have been implemented successfully, including authentication, policy retrieval, policy search, and dashboard metrics. Bug fixes and optimizations have also been made for better performance.