

# **NATIONAL HEALTH INSURANCE SYSTEM**

You are tasked with developing a simple National Health Insurance System (NHIS) that allows you to manage and track health insurance records for citizens. Each citizen's record should include the following information:

- Citizen's name (string)
- Citizen's age (integer)
- List of covered medical conditions (a list of strings)
- List of recent medical expenses (a list of integers)

**Your project should include the following functionality:**

## **1. Add Citizen Record:**

- Create a new citizen record with a unique citizen ID.
- Prompt the user for the citizen's name, age, and the list of covered medical conditions.
- Store the citizen's record in a data structure (e.g., a dictionary with the citizen ID as the key).

## **2. Retrieve Citizen Record:**

- Allow the user to search for a citizen record by their citizen ID.
- Display all the information for the citizen.

## **3. Update Citizen Record:**

- Allow the user to update the name, age, policy type, covered medical conditions, and recent medical expenses for a citizen by their ID.

#### **4. Delete Citizen Record:**

- Allow the user to delete a citizen record based on their ID.

#### **5. Display citizen information:**

- Provide an option to display a list of all citizens along with their basic information (name and age).

#### **6. Calculate total medical expenses:**

- Calculate and display the total medical expenses for a citizen based on their recent medical expenses.

The project structure can be done using lists, dictionaries, strings, and conditional statements, which will be similar to the student information system project we initially did. However, the context is different, focusing on managing health insurance records for citizens. This project will help you practice data management and processing skills in a new scenario.