

CODING CHALLENGE

Insurance Management System

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1. Creating Policy

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===== Insurance Management System Menu =====
1. Create New Policy
2. Retrieve Policy by ID
3. View All Policies
4. Modify Existing Policy
5. Remove Policy
6. Exit Application
Select an option: 1
Enter policy ID: 1
Enter policy name: SBI Life Insurance
Enter premium amount: 25000
Enter coverage amount: 2500000
Policy created successfully.
```

Result :-

	policy_id	policy_name	premium_cost	coverage_limit
1	1	SBI Life Insurance	25000.00	2500000.00

2. Get Policy by ID

```
===== Insurance Management System Menu =====
1. Create New Policy
2. Retrieve Policy by ID
3. View All Policies
4. Modify Existing Policy
5. Remove Policy
6. Exit Application
Select an option: 2
Enter policy ID: 2
Policy(policy_id = 2, plan_name = LIC Jeevan Bima, premium_cost = 15000.00, coverage_limit = 3000000.00)
```

Result:-

	policy_id	policy_name	premium_cost	coverage_limit
1	2	LIC Jeevan Bima	15000.00	3000000.00

3. Get All Policies

```
===== Insurance Management System Menu =====
1. Create New Policy
2. Retrieve Policy by ID
3. View All Policies
4. Modify Existing Policy
5. Remove Policy
6. Exit Application
Select an option: 3

All Available Policies:
Policy(policy_id = 1, plan_name = SBI Life Insurance, premium_cost = 25000.00, coverage_limit = 2500000.00)
Policy(policy_id = 2, plan_name = LIC Jeevan Bima, premium_cost = 15000.00, coverage_limit = 3000000.00)
Policy(policy_id = 3, plan_name = ICICI Prudential Life Insurance, premium_cost = 20000.00, coverage_limit = 2000000.00)
Policy(policy_id = 4, plan_name = Max Life Insurance, premium_cost = 45000.00, coverage_limit = 5000000.00)
```

Result:-

	policy_id	policy_name	premium_cost	coverage_limit
1	1	SBI Life Insurance	25000.00	2500000.00
2	2	LIC Jeevan Bima	15000.00	3000000.00
3	3	ICICI Prudential Life Insurance	20000.00	2000000.00
4	4	Max Life Insurance	45000.00	5000000.00

4. Updating Policy

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===== Insurance Management System Menu =====
1. Create New Policy
2. Retrieve Policy by ID
3. View All Policies
4. Modify Existing Policy
5. Remove Policy
6. Exit Application
Select an option: 4
Enter policy ID to update: 2
Current details for Policy ID 2: Policy(policy_id = 2, plan_name = LIC Jeevan Bima, premium_cost = 15000.00, coverage_limit = 3000000.00)
Enter new policy name (current: LIC Jeevan Bima): LIC Jeevan Bima
Enter new premium amount (current: 15000.00): 21000
Enter new coverage amount (current: 3000000.00): 3000000
Policy 2 updated successfully.
```

Result:-

Previous data ->

	policy_id	policy_name	premium_cost	coverage_limit
1	2	LIC Jeevan Bima	15000.00	3000000.00

Updated Data ->

	policy_id	policy_name	premium_cost	coverage_limit
1	2	LIC Jeevan Bima	21000.00	3000000.00

5. Deleting Policy

```
===== Insurance Management System Menu =====
1. Create New Policy
2. Retrieve Policy by ID
3. View All Policies
4. Modify Existing Policy
5. Remove Policy
6. Exit Application
Select an option: 5
Enter policy ID to delete: 4
Policy 4 deleted successfully.
```

Result:-

	policy_id	policy_name	premium_cost	coverage_limit
1	1	SBI Life Insurance	25000.00	2500000.00
2	2	LIC Jeevan Bima	21000.00	3000000.00
3	3	ICICI Prudential Life Insurance	20000.00	2000000.00

6. Policy Not Found Exception

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===== Insurance Management System Menu =====
1. Create New Policy
2. Retrieve Policy by ID
3. View All Policies
4. Modify Existing Policy
5. Remove Policy
6. Exit Application
Select an option: 2
Enter policy ID: 7
Policy with ID 7 not found.
```

7. Exit

```
===== Insurance Management System Menu =====
1. Create New Policy
2. Retrieve Policy by ID
3. View All Policies
4. Modify Existing Policy
5. Remove Policy
6. Exit Application
Select an option: 6
Exiting the system...
```