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IT 206 PA 3
7/14/2024

Class Descriptions

1.) Policy

a.) Attributes

- i.) String policyNumber
- ii.) String policyOwner
- iii.) Double yearlyPremium

b.) Methods

- i.) Constructor: Policy(String policyNumber, String policyOwner, double yearlyPremium)
- ii.) Getters: getPolicyNumber(), getPolicyOwner(), getYearlyPremium()
- iii.) toString(): Returns a string representation of the policy

2.) AutomobilePolicy

a.) Attributes

- i.) String vehicleId
- ii.) String make
- iii.) String model

b.) Methods

- i.) Constructor: AutomobilePolicy(String policyNumber, String policyOwner, double yearlyPremium, String vehicleId, String make, String model)
- ii.) Overrides: toString()

3.) HomePolicy

a.) Attributes:

- i.) String streetAddress
- ii.) int yearBuilt
- iii.) double deductible

b.) Methods:

- i.) Constructor: HomePolicy(String policyNumber, String policyOwner, double yearlyPremium, String streetAddress, int yearBuilt, double deductible)
- ii.) Overrides: toString()

4.) LifePolicy

a.) Attributes:

- i.) String beneficiaryName
- ii.) double faceValue

b.) Methods:

- i.) Constructor: LifePolicy(String policyNumber, String policyOwner, double yearlyPremium, String beneficiaryName, double faceValue)
- ii.) Overrides: toString()

5.) InsurancePolicyManager

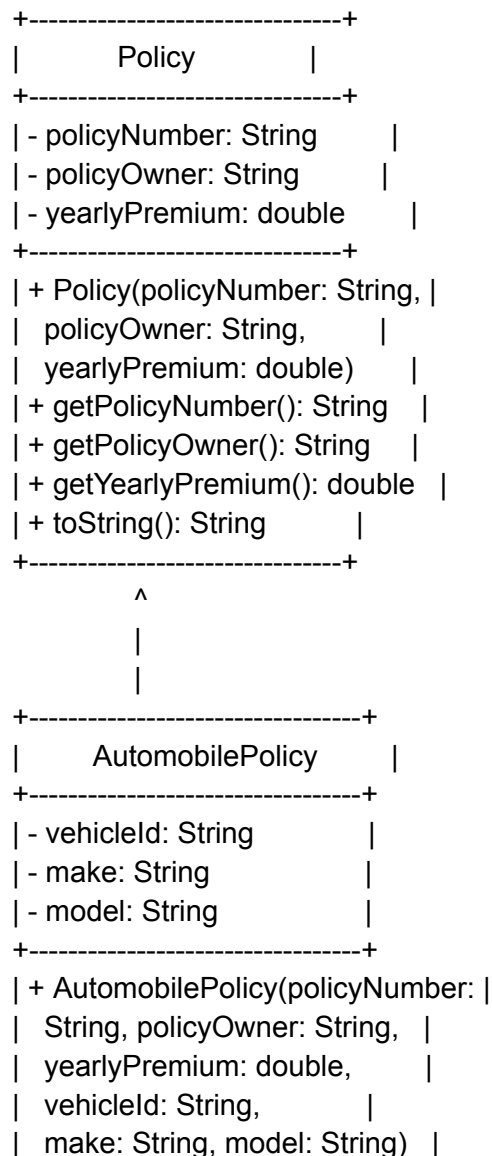
a.) Attributes:

- i.) Policy[] policies
- ii.) int policyCount

b.) Methods:

- i.) addPolicy(Policy policy): Adds a policy to the array
- ii.) removePolicy(String policyNumber): Removes a policy by its policy number
- iii.) viewPolicies(): Displays all policies
- iv.) run(): Runs the main loop for user interaction
- v.) addPolicyMenu(): Handles the input for adding policies

UML DIAGRAM



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| + toString(): String      |  
+-----+
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```
+-----+  
|      HomePolicy          |  
+-----+
```

```
| - streetAddress: String  |  
| - yearBuilt: int         |  
| - deductible: double     |  
+-----+
```

```
| + HomePolicy(policyNumber: String, policyOwner: String, |  
| yearlyPremium: double, |  
| streetAddress: String, |  
| yearBuilt: int,        |  
| deductible: double)    |  
| + toString(): String   |  
+-----+
```

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```
+-----+  
|      LifePolicy          |  
+-----+
```

```
| - beneficiaryName: String |  
| - faceValue: double       |  
+-----+
```

```
| + LifePolicy(policyNumber: String, policyOwner: String, |  
| yearlyPremium: double, |  
| beneficiaryName: String, |  
| faceValue: double)     |  
| + toString(): String   |  
+-----+
```

```
+-----+  
| InsurancePolicyManager   |  
+-----+  
| - policies: Policy[]    |  
| - policyCount: int      |  
+-----+  
| + addPolicy(policy: Policy): void |
```

```
| + removePolicy(policyNumber:  |
|   String): void              |
| + viewPolicies(): void        |
| + run(): void                 |
| + addPolicyMenu(): void       |
+-----+
```