



Certified Hyperledger Developer

Modeling Capstone Project

Procedure

- The first step is to create a model file or a .cto file
- Model.cto file is created by defining:
 - Namespace of the model file
 - Participants of the project
 - Transactions in the project



Namespace definition

- Namespace for our model file is:
 - *namespace org.example.model*



Participants



- There are two participants in this project:
 - Members
 - Partners
- Defining participants require a class with all the required parameters like id, name, number etc. that are used to create a member entity.
- An identifier can be added in the definition to uniquely identify each member

Participants



- **Member:**

```
participant Member identified by accountNumber {  
    String accountNumber  
    String firstName  
    String lastName  
    String phoneNumber  
    String email  
    Integer points  
}
```

- **Partners:**

```
participant Partner identified by id {  
    String id  
    String name  
}
```

Transactions



- There are two types of transactions in this project:
 - EarnPoints
 - UsePoints
- **EarnPoints:**

```
transaction EarnPoints {  
    Integer points  
    --> Partner partner  
    --> Member member  
}
```
- **UsePoints:**

```
transaction UsePoints {Integer points  
    --> Partner partner  
    --> Member member  
}
```



THANK YOU!

Any questions?
You can mail us at
hello@blockchain-council.org