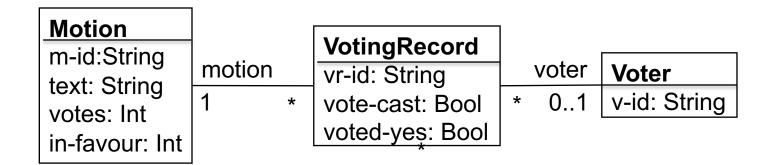
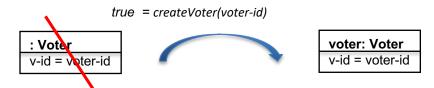
## Class Diagram and Interface



createVoter(voter-id: String): Bool

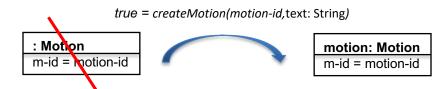
Create voter with *voter-id* if none with that id exists yet and return *true*; otherwise return *false*.

## **Contracts**



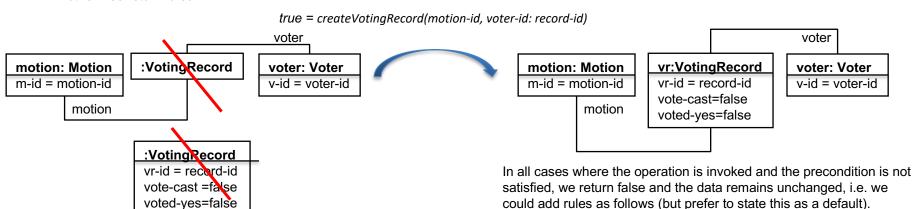
createMotion(motion-id: String, text: String): Bool

Create motion with *motion-id* if none with that id exists yet and return *true*; otherwise return *false*.



createVotingRecord(motion-id, voter-id: record-id: String): Bool

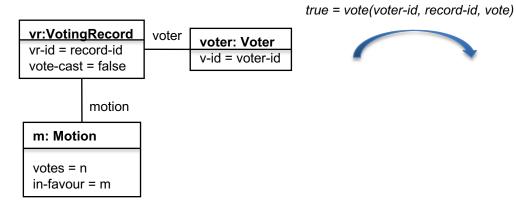
Create voting record with *record-id* if none with that id exists yet and there is no record yet for this voter and this motion, and return *true*; otherwise return *false*.

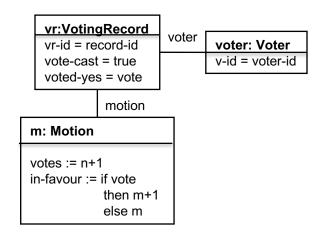


## **Contracts**

vote(voter-id: String, record-id: String, vote: Bool): Bool

Voter with voter-id registers vote in voting record with record-id; returns true if voter is eligible, false otherwise. Motion gets updated according to vote attribute.





## **Contracts**

In all cases where the operation is invoked and the precondition is not satisfied, we return false and the data remains unchanged, as specified by the rules.

vr:VotingRecord

vr-id = record-id vote-cast = true false = vote(voter-id, record-id, vote)

vr:VotingRecord

vr-id = record-id vote-cast = true

false = vote(voter-id, record-id, vote)

vr:VotingRecord
vr-id = record-id

voter: Voter

voter

vr:VotingRecord

vr-id = record-id

voter: Voter

vr:VotingRecord vr-id = record-id false = vote(voter-id, record-id, vote)

false = vote(voter-id, record-id, vote)

voter Voter v-id = voter-id