Diagram

Vector clock diagram

Transaction verification

[1, 0, 0]

B [2, 0, 0]   [3, 5, 2] E [5, 5, 2]

[4, 5, 2]

[0, 0, 0]

Fraud detection

[2, 2, 0]   [2, 4, 2]

C [2, 3, 2]   D

[0, 0, 0]   [2, 1, 0]   [2, 5, 2]

[5, 5, 4]

Suggestions service

A   F

[0, 0, 0]   [0, 0, 2]   [5, 5, 3]

[0, 0, 1]

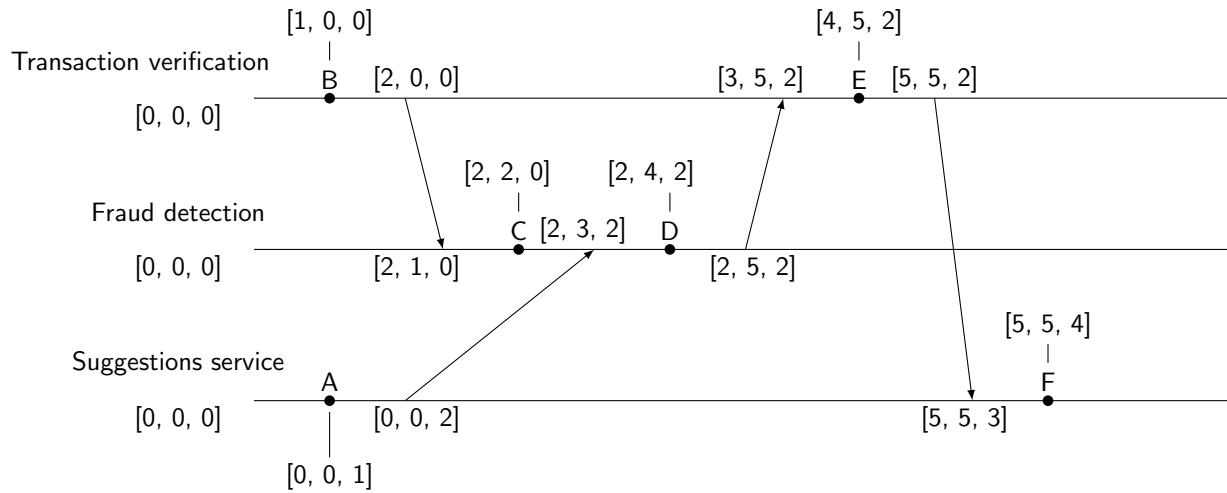## Event legend

A - Suggestion service checks that it is able to tokenize the book name

B - Check that name is non-empty

C - Check that name does not contain suspicious characteristics

D - Check that credit card number is not associated with the devil

E - Check that credit card number is not empty

F - Choose book to suggest next