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| Concept  (Class Name) | Description |
| User | Represents a person with a OPUS card or he/she can buy a ticket |
| OPUS Card | Represents STM OPUS Card which is only charged after being inserted in TVM and then paid with a particular amount to charge it |
| Pass | Represents different kinds of passes, it can either be one way, two way or full day |
| Payment | Represents different kinds of payment for transaction which can either be Cash, Debit Card or Credit Card |
| Debit | Represents use of a Debit Card to pay the price of OPUS Card or of the passes with correct card number and pin number |
| Credit | Represents use of a Credit Card to pay the price of OPUS Card or of the passes with correct card number and pin number |
| Cash | Represents use of cash for payment without interacting with the bank |
| TVM | Represents interaction with User for buying a pass or user interacts to charge his/her OPUS Card and after completing the transaction prints a receipt |
| Receipt | Represents printing of receipt after the transaction is properly completed |
| Card | Represents method of payment when using Card either can be Debit Card or Credit Card |
| Bank | Represents banking verification when the payment by a card is selected, verifies the card by card number, pin number and expiry date of the card being used. |

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| Source Concept | Target Concept | Relationship | Description |
| User | TVM | Association | User can use TVM to buy the passes or charge his OPUS Card |
| User | Payment | Association | User makes several payment for the pass(s) or OPUS Card by Cash or Card |
| User | Pass | Association | User can buy several pass(s) to travel |
| User | OPUS Card | Association | User can own one OPUS Card or he/she does not have OPUS Card |
| TVM | Pass | Association | One TVM can print several Passes as per User desired request. It is possible that TVM does not print any Passes. |
| TVM | Payment | Association | TVM can process several payment. |
| TVM | Receipt | Association | TVM after completing the tasks of pass(s) or OPUS Card prints several receipt |
| TVM | OPUS Card | Association | Opus Card is inserted into TVM to get charged |
| Payment | Card | Inheritance | Paying by Card is one way to make payment. It can either be Credit Card or Debit Card |
| Payment | Cash | Inheritance | Payment can also be paid by Cash |
| Card | Credit Card | Association | Card can be Credit Card, which can be verified by proper Card Number and PIN Number |
| Card | Debit Card | Association | Card can be Debit Card, which can be verified by proper Card Number and PIN Number |
| Credit Card | Bank | Association | Every Credit Card belongs to one Bank so needs to verified in order to complete the transaction |
| Debit Card | Bank | Association | Every Credit Card belongs to one Bank so needs to verified in order to complete the transaction |