I Manage android application database design

**Account**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **size** | **Constraint** |
| id | Int |  | **pk** |
| EMAIL OR USERNAME | Varchar | 32 | unique |
| Phone | Varchar | 11 |  |
| PASSWORD | varchar | 32 | Not null |
| BALANCE | int | - | Not null |
| Created at | timestamps | - | - |
| **Expense** | | | |
| **Field** | **Datatype** | **size** | **Constraint** |
| Id | Varchar | 32 | pk |
| User\_id | varchar | 32 | fk |
| Money taken | int | - | Not null |
| Reason for expense | Varchar | 100 | - |
| Created\_at | timestamps | - | - |
| **Deposit** |  |  |  |

**Deposit**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Size** | **Constraint** |
| **Id** | int |  | **pk** |
| **User\_id** | **int** |  | **fk** |
| **Deposited amount** | **int** | **-** | **Not null** |
| **Created\_at** | **timestamp** |  |  |

**Transaction**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Size** | **Constraint** |
| **Id** | **Int** | **-** | **pk** |
| **User\_id** | **Int** | **-** | **Fk** |
| **Transaction type** | **Varchar** | **-** | **Not null** |
| **Amount** | **int** | **-** | **Not null** |

**Debit**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Size** | **Constraint** |
| **Id** | **Int** |  | **Pk** |
| **User\_id** | **Int** |  |  |
| **Amount** | **Int** | **-** | **-** |
| **Time to return** | **Date time** |  | **null** |
| **Loanee** | **Varchar** | **45** | **Not null** |
| **Loanee\_Phone** | **varchar** |  |  |
| **Created At** | **Timestamp** | **-** | **Not null** |
| **Updated At** | **Timestamp** |  | **Null** |
| **Paid** | **Int** | **-** | **null** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Size** | **Constraint** |
| **Id** | **Int** |  | **Pk** |
| **User\_id** | **Int** |  |  |
| **Amount** | **Int** | **-** | **-** |
| **Time to return** | **Date time** |  | **null** |
| **Loaner (Loan Giver)** | **Varchar** | **45** | **Not null** |
| **Phone number** | **varchar** |  |  |
| **Created At** | **Timestamp** | **-** | **Not null** |
| **Updated At** | **Timestamp** |  | **Null** |
| **Paid** | **Int** | **-** | **null** |

**Database: MySQL and Volley Library**

**Front end: XML**

**Back end: php, java**