**DIGITAL WALLET SYSTEM**

**PRODUCT NAME: DIGITAL WALLET**

LIST OF SIMILAR PRODUCTS:

|  |  |  |
| --- | --- | --- |
| **Product Name** | **Features** | **URL** |
| Sdk.finance | Users can be able to see the balance and maintain a digital wallet | https://sdk.finance/digital-wallet-solution/ |

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**Contribution:**

1. Wallet management
2. Transaction management
3. Reports
4. Schema Design

Slides.google.com:

Portfolio:

github: https://github.com/Kumarank24

Leetcode:

**Tables:** wallet, payment\_ methods, transaction

**Master Table:** Transaction

User id-**PRIMARY KEY**

Transaction id

Transaction amount

Transaction Date

**Table:** Wallet

User id-**FOREIGN KEY**

Wallet id

Transaction id

Wallet Balance

**Report:**

User id

Balance

Interest

CREATE TABLE Transaction

INSERT INTO Transaction (‘User id’, ’Transaction id’, ’Transaction amount’, ’Transaction Date’)

CREATE VIEW

**KEYWORDS:** Relation, Attributes, Domain, Tuple

Relation-Transaction

Attributes-Transaction ID

Domain- AH\_

Tuple

**DATABASE NORMALIZATION**

**TYPES:**

1NF,2NF,3NF,4NF,5NF

**TRANSACTION -** Master Table

**1NF:** My Table is in 1NF because it has a primary key named user id

**2NF:** My Table is in 2NF because it has a primary key-user id, all other columns are dependent on the primary key

**3NF:** Should be in 2NF, no transitive partial dependency

**Ex:** student\_id, student\_name, job\_id, job\_name, state\_id, state\_name

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**1NF-**Student\_id, student\_name

**2NF-**Student role-student\_id,job\_id

Student info table-student\_id,student\_name,state\_id,state\_name

Job table-job\_id,job\_name

**3NF-**student role,

studentinfo –student\_id, student\_name, state\_id

job info-job\_id, job\_name

state table-state\_id,state\_name

**FRONTEND:** BOOTSTRAP(v5.3.x), React Js, Tailwind CSS, Flask, Android, Flutter

**BACKEND:** MYSQL(v9.3.0), Oracle, Mongo DB, JSON, SQLi, Firebase

**EDITOR:** VISUAL STUDIO CODE(v1.99)

**SERVER:** XAMPP(v3.3.0)

**FRAMEWORK:** Node Js

**LANGUAGE:** PHP(v8.4), Python

**XML(EXTENSIBLE MARKUP LANGUAGE)**

**Ex:** Transaciton-**Parent tag**

user\_id,transaction\_id,transaction\_date

<XML>

<TRANSACTIONDETAIL>

<TRANSACTION>

<USER\_ID>1</USER\_ID>

<TRANSACTION\_ID>AN\_1817</TRANSACTION\_ID>

<TRANSACTION\_DATE>24-03-2005</TRANSACTION\_DATE>

</TRANSACTION>

<TRANSACTION>

<USER\_ID>2</USER\_ID>

<TRANSACTION\_ID>AN\_1818</TRANSACTION\_ID>

<TRANSACTION\_DATE>14-05-2007</TRANSACTION\_DATE>

</TRANSACTION>

<TRANSACTION>

<USER\_ID>3</USER\_ID>

<TRANSACTION\_ID>AN\_1819</TRANSACTION\_ID>

<TRANSACTION\_DATE>27-04-2005</TRANSACTION\_DATE>

</TRANSACTION>

<TRANSACTION>

<USER\_ID>4</USER\_ID>

<TRANSACTION\_ID>AN\_1820</TRANSACTION\_ID>

<TRANSACTION\_DATE>27-07-2007</TRANSACTION\_DATE>

</TRANSACTION>

</TRANSACTIONDETAIL>

</XML>

**DTD**

<!DOCTYPE transationdetail [

<!ELEMENT transactiondetail(‘transaction’)>

<!ELEMENT transaction(user\_id, transaction\_id,transaction\_date)>

<!ELEMENT user\_id(#PCDATA)>

<!ELEMENT transaction\_id(#PCDATA)>

<!ELEMENT transaction\_date(#PCDATA)>

]>

**ER DIAGRAM**

Transaction

Payment\_methods

Wallet

**DTD WITH NO ELEMENTS**

ATTRIBUTE DECLARATION

<LOGIN TIMEOUT=100/LOGIN

<!ELEMENT LOGIN EMPTY>

<!ATLIST LOGIN TIME CDATA”1”>

**LEFT JOIN**

SELECT Transaction.transaction\_id,Wallet.wallet\_id  
FROM Transaction  
LEFT JOIN WalletON Transaciton.transction\_id = Wallet.wallet\_id;

**MODULE DETAILS**

|  |  |  |
| --- | --- | --- |
| ***MODULE NAME*** | ***SUB MODULE DETAILS*** | ***DESCRIPTION*** |
| *User Management Module* | *LOGIN/LOGOUT*  *PASSWORD MANAGEMENT*  *MULTI FACTOR AUTHORIZATION* | *Here we are managing the user with their logins and password management and multi factor authorization, etc..* |
| *Wallet Management* | *Wallet creation and*  *Linking*  *Balance check*  *Currency conversion*  *Wallet top up & withdrawal* | *Here in this module we are managing the wallet of the users by tracking their balance and creating a wallet and top up of wallet, etc..* |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***MODULE/SUBMODULE*** | ***FORM NAME-TYPE*** | ***FORM DESCRIPTION*** | ***TABLE NAME*** | ***TABLE DESCRIPTION*** |
| *ORDER/BOOK ORDER* | *BOOK ORDER-TRANSACTION* | *I can see the food items list and book for the order* | *Order table-transaction* | *In this table the user can take a clear view of their order placed* |
| *WALLET MANAGEMENT* | *REGISTRATION FORM-Transaction* | *Users can manage their wallet by creating a wallet, checking the balance, top up the wallet* | *Wallet table-Transaction* | *In this table, the user will be displayed with the current details of the wallet like balance, etc..* |