

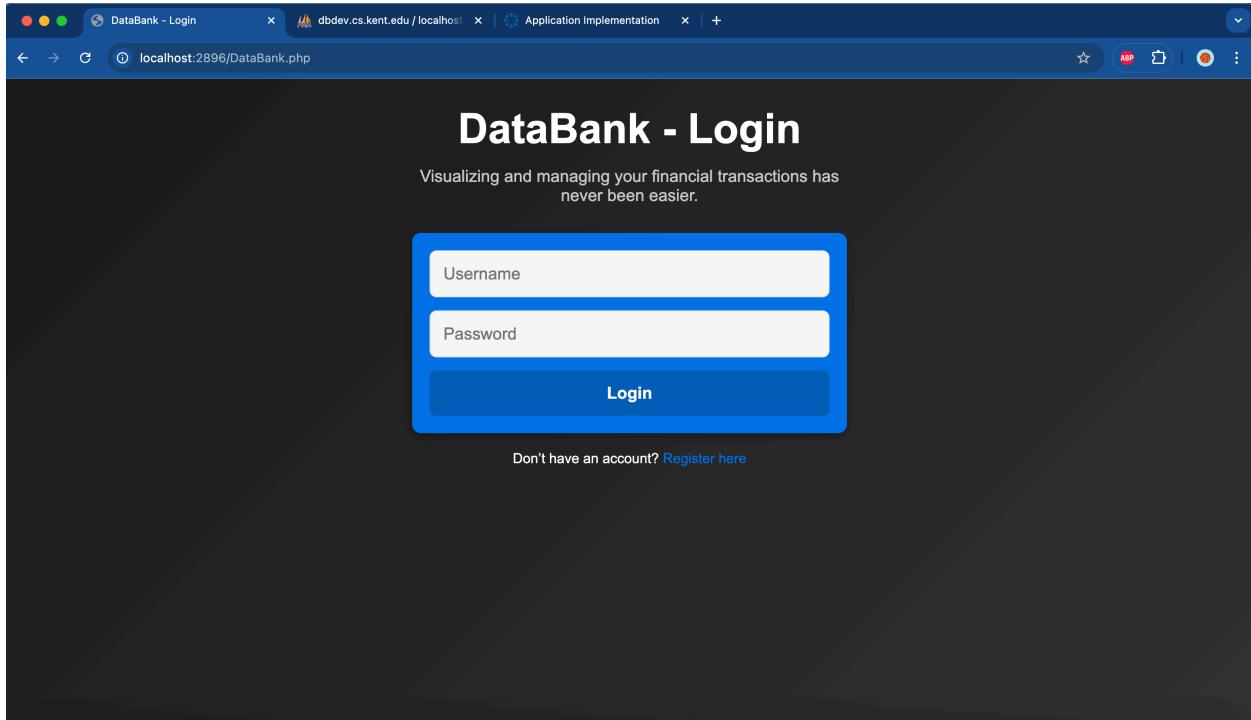
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Introduction to Database System Design  
Project Application Implementation  
12/4/2024

# DataBank

- Export of database uploaded to Canvas as .sql files ('Accounts' and 'Transactions' tables)
- SQL Code used to create tables uploaded in Canvas (DataBank.sql)
- Source code uploaded to Canvas, includes php and css files.

## Application Screenshots:

### Login page



## Register page

The screenshot shows a web browser window with the title "DataBank - Register". The URL in the address bar is "localhost:2896/register.php". The page has a dark background with white text. At the top center is the heading "DataBank - Register". Below it is a sub-heading: "Visualizing and managing your financial transactions has never been easier." A large blue rectangular form is centered on the page, containing four input fields: "FirstName", "LastName", "Username", and "Password", each with a corresponding placeholder text. Below these fields is a blue "Register" button. At the bottom of the page, there is a link "Already have an account? [Log in here](#)".

## Home page

The screenshot shows a web browser window with the title "DataBank - Home". The URL in the address bar is "localhost:2896/home.php". The page has a dark background with white text. At the top left is the "DataBank" logo, and at the top right is a "Logout" link. The main content area features a large "Welcome, Nathon!" message. Below it, a statement says "Your current balance is:" followed by a blue button with "\$ 563.00" and a "Change Balance" link. There are three blue buttons below: "Withdraw Funds", "Deposit Funds", and "Transaction History".

## Withdraw page (After \$10 Withdraw)

The screenshot shows a browser window with three tabs: "DataBank - Withdraw Funds", "dbdev.cs.kent.edu / localhost", and "Application Implementation". The active tab is "DataBank - Withdraw Funds" with the URL "localhost:2896/withdraw.php". The page has a blue header with "DataBank" and "Logout". The main content area has a dark background. It displays "Withdraw Funds" in large white text, "Your current balance: \$553.00" in smaller white text, and a success message "Withdrawal successful! New balance: \$553.00" in white. Below this is an input field labeled "Enter amount to withdraw" and a blue "Withdraw" button. At the bottom is a "Back to Home" button.

## Deposit page (After \$10 Deposit)

The screenshot shows a browser window with three tabs: "DataBank - Deposit Funds", "dbdev.cs.kent.edu / localhost", and "Application Implementation". The active tab is "DataBank - Deposit Funds" with the URL "localhost:2896/deposit.php". The page has a blue header with "DataBank" and "Logout". The main content area has a dark background. It displays "Deposit Funds" in large white text, "Your current balance: \$563.00" in smaller white text, and a success message "Deposit successful! New balance: \$563.00" in white. Below this is an input field labeled "Enter amount to deposit" and a blue "Deposit" button. At the bottom is a "Back to Home" button.

## Transactions page (Can scroll up and down to see all transactions for account)

The screenshot shows a web browser window titled "DataBank - Transaction Hist." with the URL "localhost:2896/transactions.php". The page has a blue header bar with the "DataBank" logo and a "Logout" link. Below the header is a large title "Transaction History". A sub-header says "Below are your recent transactions:". A table follows, displaying 15 rows of transaction data. The columns are: Transaction ID, Transaction Type, Amount, Old Balance, New Balance, Transaction Date, and Description. The transactions are mostly manual balance changes, with some withdrawals and deposits.

Transaction ID	Transaction Type	Amount	Old Balance	New Balance	Transaction Date	Description
37	Deposit	+10.00	\$553.00	\$563.00	2024-12-04 20:56:34	Manual balance deposit.
36	Withdrawal	-10.00	\$563.00	\$553.00	2024-12-04 20:55:53	Manual balance withdrawal.
35	Deposit	+10.00	\$553.00	\$563.00	2024-12-04 20:54:15	Manual balance deposit.
34	Deposit	+79.00	\$474.00	\$553.00	2024-12-04 19:46:18	Manual balance deposit.
33	Withdrawal	-3.00	\$477.00	\$474.00	2024-12-04 19:46:12	Manual balance withdrawal.
32	Withdrawal	-123.00	\$600.00	\$477.00	2024-11-28 18:06:01	Manual balance withdrawal.
31	Deposit	+100.00	\$500.00	\$600.00	2024-11-28 18:05:44	Manual balance deposit.
30	Deposit	+72.00	\$428.00	\$500.00	2024-11-28 18:04:42	Manual balance change.
26	Deposit	+4.00	\$424.00	\$428.00	2024-11-27 07:13:02	Manual balance deposit.
25	Withdrawal	-3.00	\$427.00	\$424.00	2024-11-27 06:38:37	Manual balance withdrawal.
24	Withdrawal	+0.00	\$427.00	\$427.00	2024-11-27 06:34:24	Manual balance withdrawal.
23	Withdrawal	+0.00	\$450.00	\$450.00	2024-11-27 06:33:16	Manual balance withdrawal.
22	Deposit	+500.00	\$0.00	\$500.00	2024-11-27 06:22:00	Manual balance change.

## Database Table Screenshots:

### Accounts Table

The screenshot shows the "phpMyAdmin" interface with the database "niadima1" selected. The left sidebar lists various tables: Accounts, advisor, classroom, course, department, instructor, mytable, prereq, section, student, takes, teaches, time\_slot, and Transactions. The "Accounts" table is currently selected. The main area displays the table structure with columns: AccountID, Username, PasswordHash, Role, FirstName, LastName, and Balance. There are three rows of data shown, each with edit, copy, and delete options. Below the table, there are buttons for "Query results operations" like Print, Copy to clipboard, Export, Display chart, and Create view.

AccountID	Username	PasswordHash	Role	FirstName	LastName	Balance
17	Nate5732	\$2y\$10\$Hg4BBi5rmKAQoWDZQL21VO9HG9f0dSow2ejrQUZXkd...	User	Nathan	Iadimarco	563.00
20	TestAccount	\$2y\$10\$knNfq2TTkxMLWiawGEjU.KY9EC1ou/eDhFMGOSSO/y...	User	Test	Testing	583.00
22	Mike123	\$2y\$10\$6KC55.HoJLHHSLO2U6n4GuoqVyRP3hEHzG3P6CgDOkp...	User	Michael	Iadimarco	0.00

## Transactions Table

The screenshot shows the phpMyAdmin interface for the 'Transactions' table in the 'niadima1' database. The table contains 37 rows of transaction history. The columns are: TransactionID, AccountID, TransactionType, Amount, OldBalance, NewBalance, TransactionDate, and Description.

TransactionID	AccountID	TransactionType	Amount	OldBalance	NewBalance	TransactionDate	Description
1	17	Deposit	1.00	8.00	9.00	2024-11-27 04:28:06	NULL
2	17	Deposit	114.00	9.00	123.00	2024-11-27 04:28:28	NULL
3	17	Withdrawal	111.00	123.00	12.00	2024-11-27 04:32:37	NULL
4	17	Withdrawal	765.00	780.00	15.00	2024-11-27 04:37:18	NULL
5	17	Withdrawal	3.00	15.00	12.00	2024-11-27 04:57:43	NULL
6	17	Deposit	6.00	12.00	18.00	2024-11-27 04:59:58	NULL
7	17	Deposit	0.00	18.00	43.00	2024-11-27 05:03:43	NULL
8	17	Withdrawal	0.00	43.00	12.00	2024-11-27 05:04:11	NULL
9	17	Deposit	212333.00	12.00	212345.00	2024-11-27 05:05:29	NULL
10	17	Withdrawal	-212302.00	212345.00	43.00	2024-11-27 05:12:14	NULL
11	17	Deposit	2.00	43.00	45.00	2024-11-27 05:13:29	NULL
12	17	Withdrawal	-42.00	45.00	3.00	2024-11-27 05:13:48	NULL
13	17	Deposit	87.00	3.00	90.00	2024-11-27 05:13:57	NULL
14	17	Deposit	10.00	90.00	100.00	2024-11-27 06:02:18	NULL
15	17	Withdrawal	0.00	50.00	50.00	2024-11-27 06:07:44	Manual balance change.
16	17	Deposit	92.00	50.00	142.00	2024-11-27 06:11:16	Manual balance change.
17	17	Withdrawal	5.00	137.00	132.00	2024-11-27 06:28:32	Manual balance withdrawal.
18	17	Withdrawal	2.00	130.00	128.00	2024-11-27 06:28:52	Manual balance withdrawal.
19	17	Withdrawal	8.00	120.00	112.00	2024-11-27 06:29:06	Manual balance withdrawal.
20	17	Withdrawal	2.00	110.00	2.00	2024-11-27 06:32:24	Manual balance withdrawal.
21	17	Withdrawal	2.00	0.00	0.00	2024-11-27 06:33:01	Manual balance withdrawal.
22	17	Deposit	500.00	0.00	500.00	2024-11-27 06:33:08	Manual balance change.
23	17	Withdrawal	50.00	450.00	450.00	2024-11-27 06:33:16	Manual balance withdrawal.
24	17	Withdrawal	23.00	427.00	427.00	2024-11-27 06:34:24	Manual balance withdrawal.
25	17	Withdrawal	3.00	427.00	424.00	2024-11-27 06:38:37	Manual balance withdrawal.
26	17	Deposit	4.00	424.00	428.00	2024-11-27 07:13:02	Manual balance deposit.
27	20	Deposit	500.00	0.00	500.00	2024-11-27 07:14:41	Manual balance change.
28	20	Withdrawal	40.00	500.00	460.00	2024-11-27 07:14:51	Manual balance withdrawal.
29	20	Deposit	123.00	460.00	583.00	2024-11-27 07:14:57	Manual balance deposit.
30	17	Deposit	72.00	428.00	500.00	2024-11-28 18:04:42	Manual balance change.
31	17	Deposit	100.00	500.00	600.00	2024-11-28 18:05:44	Manual balance deposit.
32	17	Withdrawal	123.00	600.00	477.00	2024-11-28 18:06:01	Manual balance withdrawal.
33	17	Withdrawal	3.00	477.00	474.00	2024-12-04 19:46:12	Manual balance withdrawal.
34	17	Deposit	79.00	474.00	553.00	2024-12-04 19:46:18	Manual balance deposit.
35	17	Deposit	10.00	553.00	563.00	2024-12-04 20:54:15	Manual balance deposit.
36	17	Withdrawal	10.00	563.00	553.00	2024-12-04 20:55:53	Manual balance withdrawal.
37	17	Deposit	10.00	553.00	563.00	2024-12-04 20:56:34	Manual balance deposit.