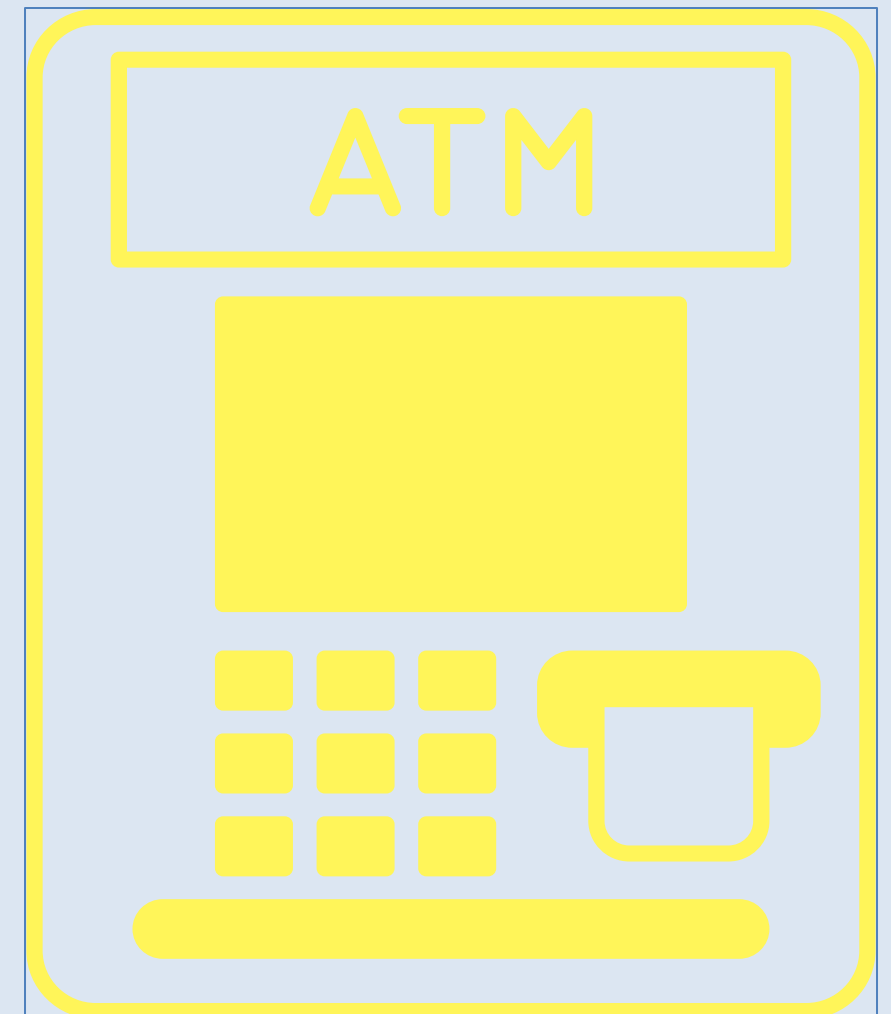


CSCI 441

Software
Engineering

ATM Application

Team: Eduardo Rodriguez
December 6, 2024



Use case

UC1- Log in

UC2- View Menu

UC3- Withdraw Cash

UC4- Deposit Cash

UC6- Add Customer

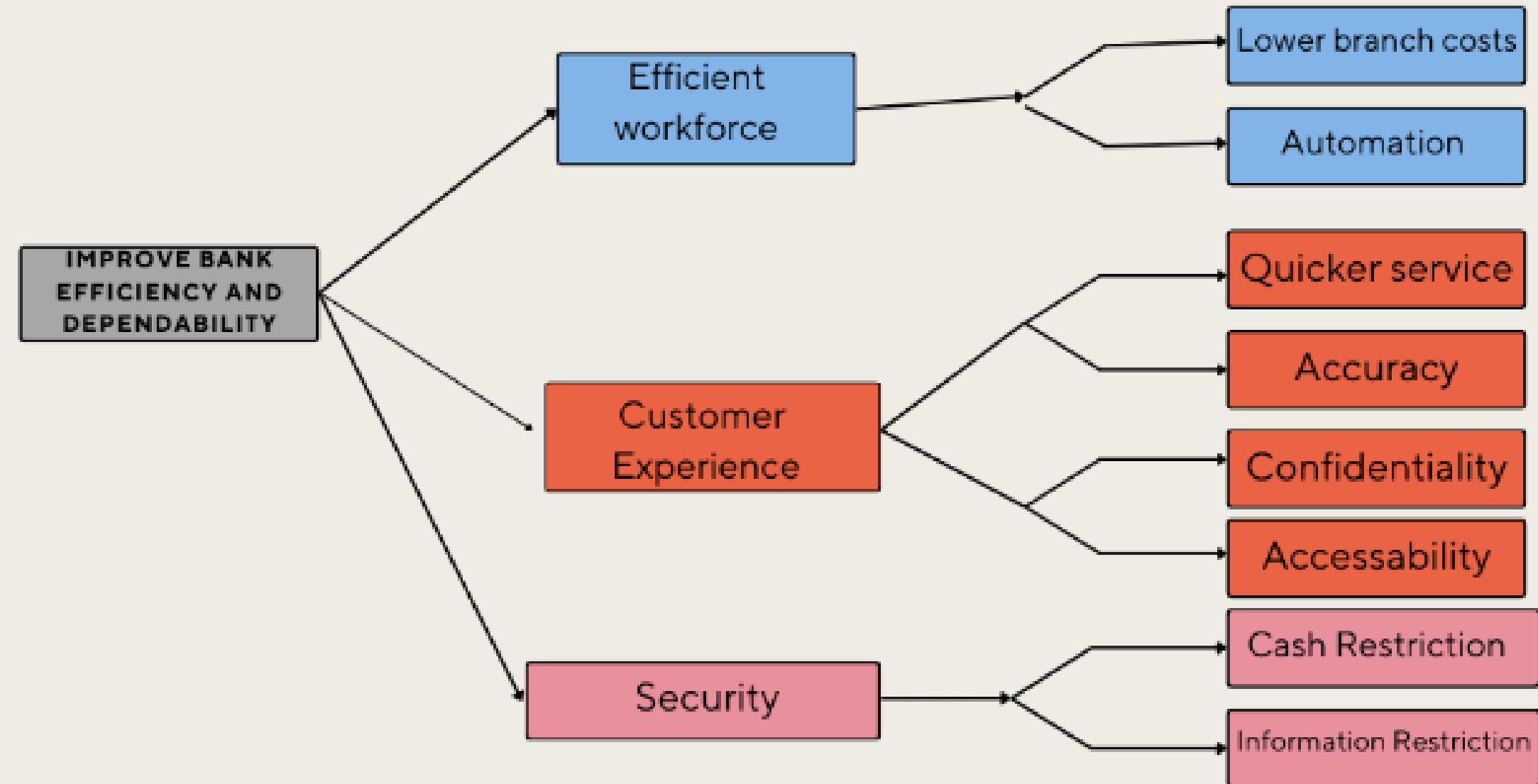
UC7- Remove Customer

UC8- Log Out

UC10- View Balance

Bussines goals

The main bussiness goal of atm machines is to increase efficiency in each bank location to improve employee and customer experience.

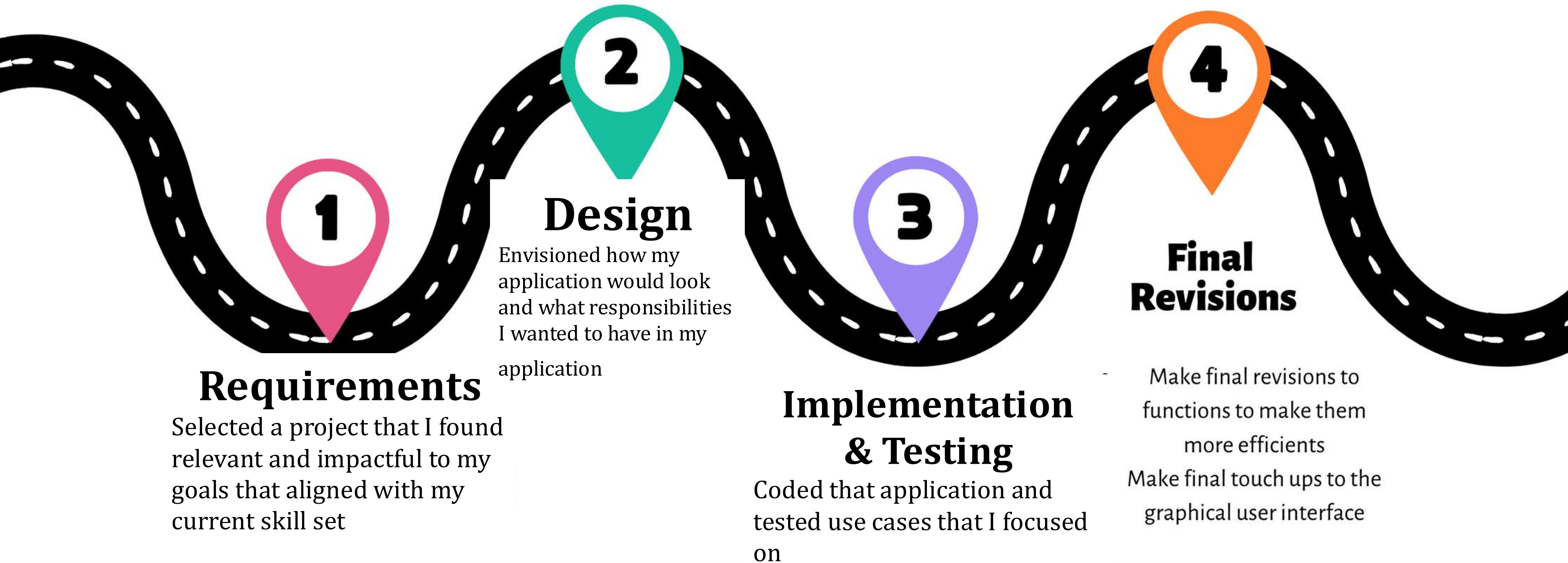


Services provided



- Log in to account securely
- Maintain an accurate balance after each transaction
- Make deposits and withdrawals
- Make new customer additions
- Make customer removals

ROADMAP



Live Programing Demonstration

Use Case 1: Log in

Log in

Our system does not recognize that combination of user name and pin

Loggin in:

Insert debit card or Account Name:

Type in your PIN

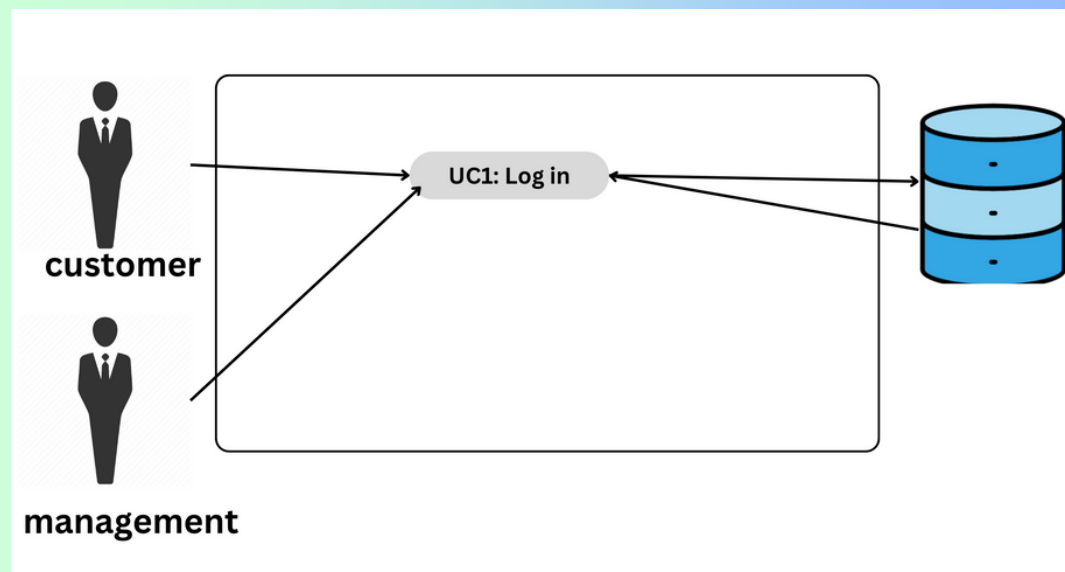
ENTER

For Bank Managers

Users and bank managements shall log in to their accounts.

Their identity should be verified through cross referencing their account number and PIN to accounts on the bank's database.

Users with wrong information shall not be allowed to access any informationa



Live Programing Demonstration

Use Case 2: View Menu

Display possible types of transactions for customer

Provide access to bank managers menu, once a manager is logged in

[Log out](#)

Main menu

Welcome to FHSU Banking

11/11/2024, 11:37:13 PM

Hello, Eduardo
Please select from the following menu

WITHDRAW

DEPOSIT

VIEW BALANCE

For Bank Managers

HELP

Live Programing Demonstration

Use Case 6: Add Customer

Allow managers to add new customers into the system

After id verification by management, management can add a new customer by inputting the cusotmers information and adding it to the database

[Log out](#) **Mangement**

Sign up New Customer:

Account Number:

Account Owner's full name(last first)

Account pin:

Date of Birth:
 ☐

Social Secutiry:

Location of Bank:

[Click to Log In](#)

Live Programing Demonstration

Use Case 3: Withdraw

Allow customer to withdraw cash from either their savings or checking account

[Log out](#)

Withdraw

Welcome to FHSU Banking

11/11/2024, 11:39:12 PM

Hello, Eduardo
Pleas confirm the ammount you wish to
WITHDRAW!

Enter

cancel

HELP



Live Programing Demonstration

Use Case 4: Deposit Cash

Deposit

11/20/2024, 10:15:24 PM

Hello, Eduardo

Pleas confirm the ammount you wish to deposit!

Deposit

cancel

HELP

Allow customers to deposit cash into either their checking



Live Programing Demonstration

Use Case 10: View Balance

Allows customer to check how much funds they have available in checking and savings account

[Log out](#)

View Balance

11/11/2024, 11:40:44 PM

Hello, Eduardo

Your balance is

\$ 1000

[Main Menu](#)

[HELP](#)

localhost

CG Book Codeblackboard.fhsu.eduFlotrackTexas Track & Field760344-mens-5k-h04TEKS Resource SystemRaces guideGuardian Mortgageindex.php

localhost / localhost / userAccounts / userAccounts | phpMyAdmin 5.2.1

For Bank Management

phpMyAdmin

Recent

Favorites

New

employees

information_schema

login_users_db

my

mysql

performance_schema

phpmyadmin

test

New

userAccounts

userAccounts

New

userAccounts

Server: localhost » Database: userAccounts » Table: userAccounts

Browse

Structure

SQL

Search

Insert

Export

Import

Privileges

Operations

Tracking

Triggers

Showing rows 0 - 1 (2 total, Query took 0.0001 seconds.)

SELECT * FROM `userAccounts`

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

accountNumber

user_id

accountOwner

socialSecurity

accountPin

balance

dateOfBirth

location

isManagement

Edit

Copy

Delete

1234567

1234567

Eduardo

12345678

6405

1000

1991-10-12

Rowlett, TX

1

Edit

Copy

Delete

2345678

2345678

Charlotte

9

1234

500

2024-11-11

Dallas, Tx

0

Check all

With selected:

Edit

Copy

Delete

Export

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Query results operations

Print

Copy to clipboard

Export

Display chart

Create view

Bookmark this SQL query

Label:

Let every user access this bookmark

Bookmark this SQL query

localhost

CG Book Codeblackboard.fhsu.eduFlotrackTexas Track & Field760344-mens-5k-h04TEKS Resource SystemRaces guideGuardian Mortgageindex.php

localhost / localhost / userAccounts / userAccounts | phpMyAdmin 5.2.1For Bank Management

phpMyAdmin

RecentFavorites

New

employees

information_schema

login_users_db

my

mysql

performance_schema

phpmyadmin

test

New

userAccounts

userAccounts

New

userAccounts

Server: localhost » Database: userAccounts » Table: userAccounts

Browse

Structure

SQL

Search

Insert

Export

Import

Privileges

Operations

Tracking

Triggers

Showing rows 0 - 2 (3 total, Query took 0.0001 seconds.)

SELECT * FROM `userAccounts`

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

accountNumber

user_id

accountOwner

socialSecurity

accountPin

balance

dateOfBirth

location

isManagement

Edit

Copy

Delete

123456123456Petra Rodriguez12345678123402024-12-06Dallas0

Edit

Copy

Delete

12345671234567Eduardo12345678640510001991-10-12Rowlett, TX1

Edit

Copy

Delete

23456782345678Charlotte912345002024-11-11Dallas, Tx0

Check all

With selected:

Edit

Copy

Delete

Export

Show all

Number of rows:25

Filter rows:Search this table

Sort by key:None

Query results operations

Print

Copy to clipboard

Export

Display chart

Create view

Bookmark this SQL query

Label:

Let every user access this bookmark

After adding new customer

localhost

CG Book Codeblackboard.fhsu.eduFlotrackTexas Track & Field760344-mens-5k-h04TEKS Resource SystemRaces guideGuardian Mortgageindex.php

localhost / localhost / userAccounts / userAccounts | phpMyAdmin 5.2.1

For Bank Management

phpMyAdmin

RecentFavorites

New

employees

information_schema

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my

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test

New

userAccounts

userAccounts

New

userAccounts

Server: localhost » Database: userAccounts » Table: userAccounts

Browse

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SQL

Search

Insert

Export

Import

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Showing rows 0 - 1 (2 total, Query took 0.0001 seconds.)

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accountNumber

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isManagement

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Copy

Delete

12345671234567Eduardo12345678640510001991-10-12Rowlett, TX1

Edit

Copy

Delete

23456782345678Charlotte912345002024-11-11Dallas, Tx0

Check all

With selected:

Edit

Copy

Delete

Export

Show all

Number of rows:25

Filter rows:Search this table

Sort by key:None

Query results operations

Print

Copy to clipboard

Export

Display chart

Create view

Bookmark this SQL query

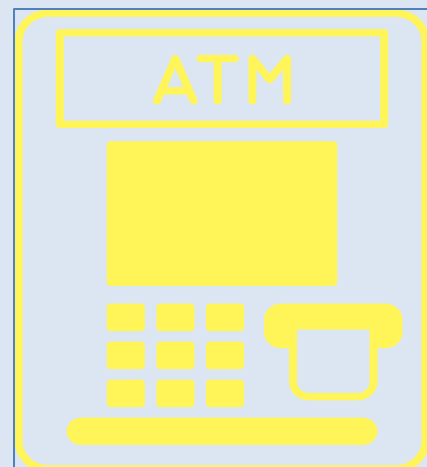
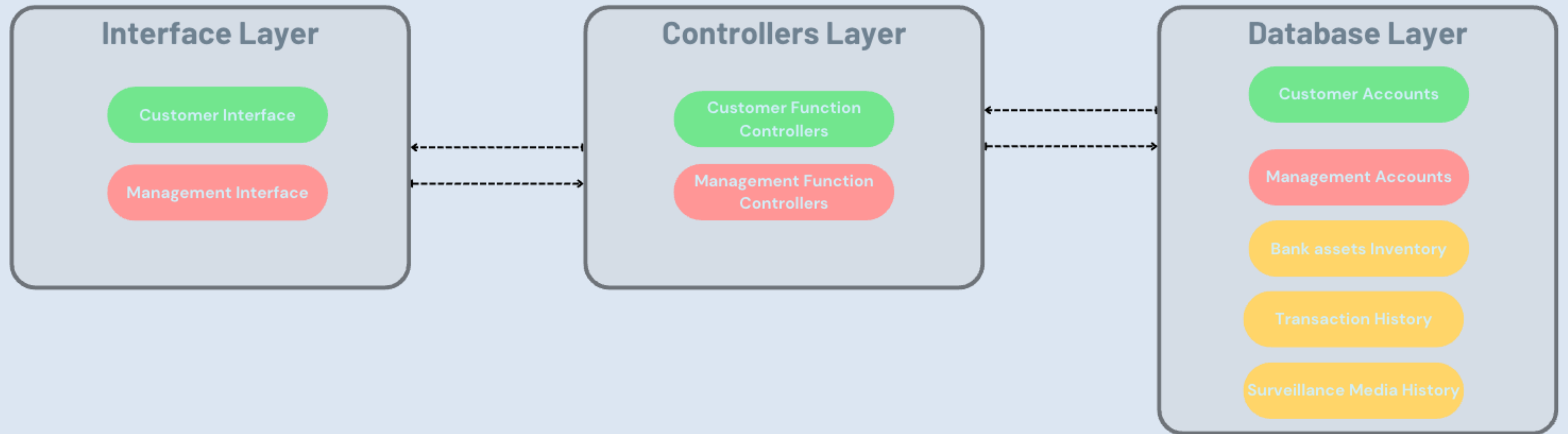
Label:

Let every user access this bookmark

Bookmark this SQL query

After removing customer

Subsystem Diagram



**Easy to
understand**

**Easy to ask
for help**

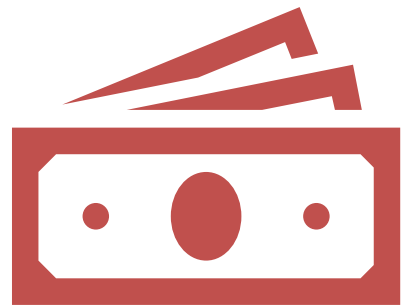
**Efficient
application**

Secure

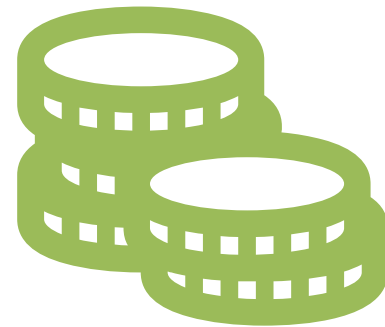
Strengths of project

- The major strengths of this project
 - very intuitive and easy to learn for any users
 - users can quickly go through the application and
 - for any issues, there's an easily accessible button to ask for help
 - customers can trust that their account can't just be accessed by anyone

Accomplishments of Project



Automates Bank Transactions and
reduces stress on workers



Accurately process each deposit
and withdrawal



Updates database in Realtime

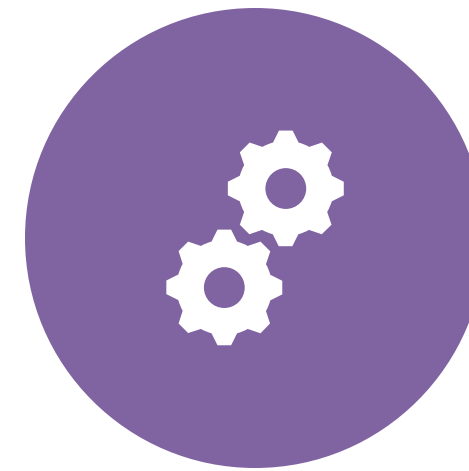
Accomplishments of Project ... cont



INCREASES EFFICIENCY OF
BANK PROCEDURES



EASY TO LEARN AND USE



VERY QUICK / NO LAG