Development project: Phase I

A bank hires you to implement a modern internet-banking system.

- The system must consist of: a web GUI and a back-end for server-side processing.
- The client-side of this web-application must be implemented in HTML and JavaScript.
- The server-side must be implemented using PHP, MySQL and C (or C++).

The Internet-banking GUI must allow clients to:

- register via a registration form
- log-into their account and see their transaction history
- make online payments via securely generated transaction numbers
- transactions can be performed by:
    - filling in an HTML form
    - uploading a text file containing the same information as provided in the HTML form;
        (parsing text files must be implemented in C/C++)
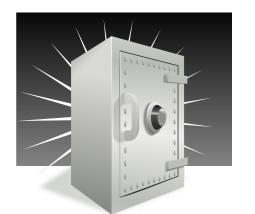
Development project

The GUI of the internet-banking system must allow bank-employees to:

- log-into their accounts
- approve client registration requests
- approve transfers larger than 10.000 EUR

Update: At the beginning there is one fixed employee (admin) that can approve registrations of new employee accounts.

The following information must be stored in a relational database on the bank-server side:

- user accounts (of clients and employees)
- bank accounts (of clients)
- a history of all transfer details

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- When a client registers on the Internet-banking web-app, he must get an e-mail with 100 unique transaction codes of (15 printable characters), which he can use when transferring money.

- It is important to note that all clients must have different transaction codes and one code must only work one-time.

- Entering the same transaction code for another transaction must be encountered with an error message by the web-application.

- The transaction codes must either be entered via the HTML GUI or in the uploaded text-file.

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- Your task is to implement this functionality and present your solution on <u>Tuesday the 28th of October.</u>
- Use the official lecture's VM
- Don't worry about security, we will get there. Focus on functionality!
- Presentations will be at most 10 mins. each, go to the point.
- Have a final slide including a summary of how much time did each member of the group doing what.
- Have fun!