# Programming Project / C++ – Electronic Wallet Management & Interaction System –

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# I. Task Description

Student 1 is responsible for managing the electronic wallet:

- Adding and deleting cards
- Viewing cards
- Adding balance to cards

Student 2 is responsible for the interactions between cards and the logging:

- Spendings and transfers between cards
- Creating a logging system and the actual logs for all actions

# II. Data Structures Used by the Team

The following classes will be used:

- Card: string cardName, string cardNumber, string name, string expirationDate, double moneyAmount, int viewCount
- Wallet: vector<Card> cards

## **III. File Structure**

The following files will be used:

### cards.csv

A file where details about the cards will be stored in the form: cardName,cardNumber,name,expirationDate,moneyAmount,viewCount

### transactions.txt

A file where details about placed orders will be stored: <dayOfTheWeek month day hour/minute/second year>

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<CardNumber>, <typeOfTransaction>, <amount> ...
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IV. Interacting with Executables
wallet_manager will offer the following options:
./wallet_manager.exe add_card <card_name> <number> <owner_name> <exp_date>
To add a new card
./wallet_manager.exe view_card <number>
To view details on a specific card
./wallet_manager.exe list_cards
To list all cards in order
./wallet_manager.exe load_money <number> <amount>
To modify the balance of a specific card
./wallet_manager.exe save
To manually save the wallet
remote_wallet will offer the following options:
./remote_wallet.exe spend <number> <amount>
Spend money from a specific card
./remote_wallet.exe transfer <from_number> <to_number> <amount>
Transfer money from one card to another
./remote_wallet.exe view_card <number>
View details on a specific card
```

Both executables also have the option ./app\_name.exe —help
To list all possible commands

./remote\_wallet.exe list List all the cards in the wallet