

Task 1

Implementation 1: Strengthening the user profile

The **login** function was modified to allow a new user to add credit card details (card number, date of expiry, name on card and CVV) for an arbitrary number of credit cards during registration. The **UserAuthenticator.register** function was modified to accept an additional input parameter **cards** representing the credit card details and add these details to the **users.json** file. If the user is registered, the modified login function returns the user's login information represented as a dictionary containing the credit card details. The **User** class was extended to include these details. Finally, the **user_card_data.py** file was added containing the **modify_credit_card** function to allow a user to change these details in the **users.json** file.

Implementation 2: Strengthening the payment system

The **checkout** function was modified to ask the user whether he wants to use his wallet or a card for payment. If "card" is selected, the function displays the list of his cards and asks which card the user wants to use.