



SWE 445

Phase #2

Software Design

Group #4

(a) User Interface Design:

- Screen Images - Screenshots showing (high fidelity prototype) complete interface from the user's perspective **for 3 mitigating use cases and 3 those use cases which have relation with the mitigating use cases**

1st Mitigating Use case: **Check User Input**



Sign-In

hello.com|

Enter a valid e-mail above.

Password


☐ Remember Me

Login

[Forgot Password?](#)

[Create an Account!](#)

Related Use case for 1st mitigating: Sign-up & Sign-in



Sign-Up with Us!

First Name

Last Name


Email Address

Password

Repeat Password

[Register Account](#)

[Already have an account? Login!](#)



Sign-In

Email Address...

Password

☐ Remember Me

[Login](#)

[Forgot Password?](#)

[Create an Account!](#)

2nd Mitigating Use case: Multi-Factor Authentication



Enter Verification Code



1			
---	--	--	--

Verify

Resend Verification Code

Related Use case for 2nd mitigating: Checkout

Order Checkout

PRODUCT	PRICE	QUANTITY	REMOVE
 Lumix camera lense <small>Category: Electronics</small>	\$79.00	3	

PAYMENT METHOD

☒ VISA card ends with *811

ORDER SUMMARY

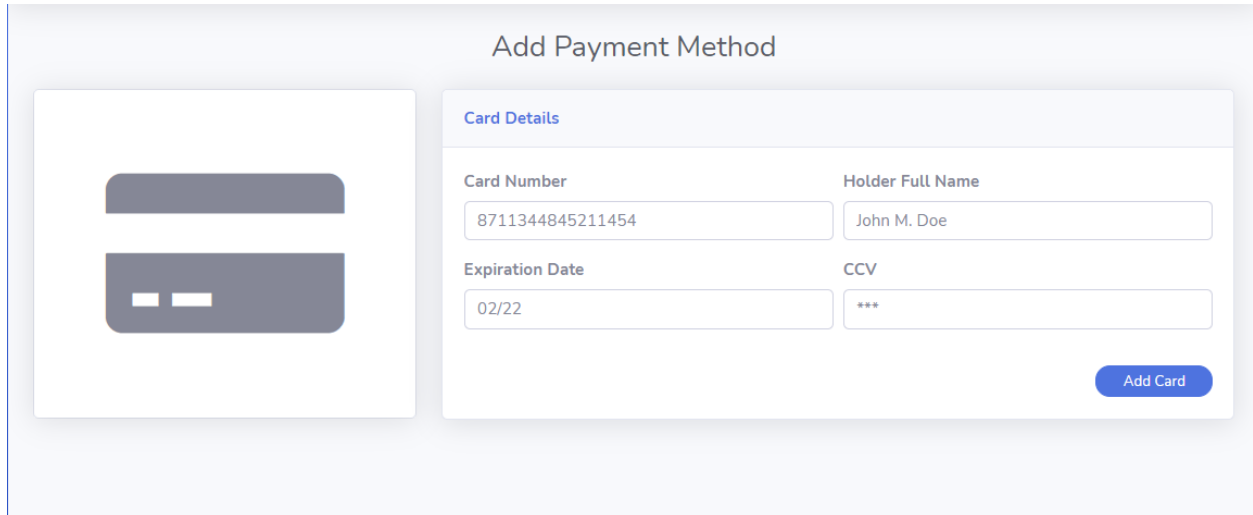
Order Subtotal	\$237.00
Shipping and handling	\$10.00
Total	\$247.00

Order

3rd Mitigating Use case: Hash Card Details

Note: This use case is implemented in the backend, the user does not see the hashed details, so there is no user interface to be provided.

Related Use case for 3rd mitigating: Add Payment Method



The screenshot shows a web interface for adding a payment method. It features a placeholder image of a credit card on the left and a form on the right. The form is titled 'Card Details' and contains four input fields: 'Card Number' with the value '8711344845211454', 'Holder Full Name' with the value 'John M. Doe', 'Expiration Date' with the value '02/22', and 'CCV' with the value '***'. An 'Add Card' button is located at the bottom right of the form.

(b) Database design

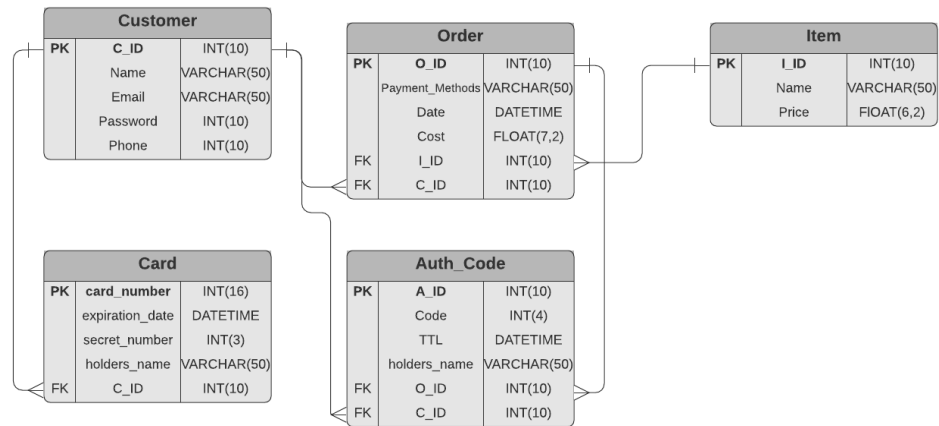
- Conceptual

Customer	Items	Order	Card	Auth Code
C_ID (<i>PK</i>) Name Phone Email Password	I_ID (<i>PK</i>) Name Price	O_ID (<i>PK</i>) Payment Method Total Date & Time C_ID (<i>FK</i>) I_ID (<i>FK</i>)	Card number(<i>PK</i>) Expiration _date Secret_number Holder_name C_ID (<i>FK</i>)	A_ID(<i>PK</i>) Code TTL C_ID (<i>FK</i>) I_ID (<i>FK</i>)

- Diagrams

- Logical Design

Link: https://lucid.app/lucidchart/invitations/accept/b8695637-08f7-4b5a-93da-efc60bd71d65?viewport_loc=239%2C-150%2C2151%2C941%2C0_0



Entity Relation Diagram

Link: https://lucid.app/lucidchart/invitations/accept/61b088c3-c1a6-4295-a798-1ec68cddc8c1?viewport_loc=-69%2C13%2C1707%2C823%2C0_0

