Test Plans:

Test plan has been implemented through two methods in this project:

* **Unit case**

1. CalculateLunnDigit test: 1 unit test has been done to checking the result of a null pan number.
2. RegexCardValidator test: 7-unit tests have been done to check the result of adding wrong cards and checking the length of card number.
3. BankClient Test: 5-unit tests have been done for checking different properties for the card. Also, a unit test for transferring money has been added.
4. Properties Dao Test: 5-unit tests have been done to check properties Dao.

* **Testing the app through browser:**

1. **Refund:**

1.1:Successful refund:

![Graphical user interface, text

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![Graphical user interface, application, Teams

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![Graphical user interface, application

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![Graphical user interface

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1.2: Insufficient balance in account:

![Graphical user interface, application

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1. **Transaction by User**

2.1:Transaction is successful:

![Graphical user interface, application

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![Graphical user interface, application

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![Graphical user interface, application

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![Graphical user interface, application

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2.2: Failed Lunn check

![Graphical user interface, application

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2.3:adding a user that is not in the bank-simulator:

![Graphical user interface, application, Teams

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2.3:When the card number is Null: it shows a tooltip and doesn’t let user to submit any card until the user add a card number.

2.4: Insufficient balance in account:

![Graphical user interface, application

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![Graphical user interface, application

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2.5: Expired card:

![Graphical user interface, application

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2.6: Adding wrong expire date:

![Graphical user interface, application

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1. **Admin Login**:

3.1: Successful Login:

![Graphical user interface, application, Teams

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3.2:Faild Login:

Graphical user interface, application, website

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1. **Changing properties by admin:**

4.1: successful change:

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4.2: changes failed:

![Graphical user interface, application

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