by Admin.

Credit Card Management

1. Functional Requirement :

- User registration and login — login functionality with username & password.
- Credit card Issue and activation — Issue new credit card after approval.
- Billing and Payment — Generate monthly statement with details of all transaction.
- Credit limit management — Set and modify credit limit based on credit history.
- Customer service — online chat and email support
- Admin management — view and audit all customer accounts & transaction.

Non - Functional Requirement :

- Performance — Avg. response time should not exceed 3s
- Scalability — The system should be scalable to support increasing no. of customers, transaction.

- **Security** — Encrypt sensitive data, ~~factors~~ Implement secure communication.

3. Domain Requirement :

- **Credit card application rules** — All applications should undergo credit worthiness check.

- **Transaction rules** — All transactions should be timestamped and stored securely.

- **Billing rules** — statements should be generated at the end of every billing cycle.

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→ Credit Card management

Requirements
+ name : String
+ code : int
+ details : text
+ scan()
+ upload()

Credit Card Number
+ number : int
+ generate()

Client
+ application : text
+ create()
+ validate()

User account
+ name : text
+ acc_num : int
+ user-name : string
+ password : string
+ PIN : int
+ add()
+ update()

Credit Card
+ code : int
+ owner : string
+ date : date
+ status : string
+ create()
+ update()
+ Terminate()

Employee

Admin

Credit Card details
+ name : string
+ pin : int
+ valid-till : date
+ automate()