

## Credit Card System

1) introduction: This document is intended to give an overview of different functionality of system. it is aimed at implementing functionalities like applying for Credit Card, payment, tracking payments, scanning QR code, Managing Credit score.

### General description:

Manager: he should get control to handle all the communication to bank staffs and higher management.

staff: staffs should able to get the <sup>customer</sup> ~~user~~ details based on user specification of detail and keep track of user credit scores.

user: he should be able scan credit card and get his details, monitor spending, make payment.

### Functionality requirement:

application: user will be able to apply for a credit card by providing necessary personal & details.

validation: validate user based on predefined criteria.

Account Management: card holder can view their balance, credit limit & availability, user can update their information.

Transaction status: cardholder can view status of transaction.

### Interface ~~and~~ Requirements:

software interfaces: system uses restful API's to communicate with external system.



a web interface for credit card management system which keep track of user details & payment status.

performance requirements: Response time for payment confirmation and user registration, it should provide real-time transaction updates of user.

6) Design constraints:

- front end using React JS
- backend implemented using express, and MongoDB for database.

7) Non-functional attributes.

- Reliability
- scalability
- availability.

8) Preliminary schedule & budget  
schedules:

phase 1: requirement gathering (2 weeks)

phase 2: system design architecture (4 weeks)

phase 3: Development (8 weeks)

phase 4: testing (2 weeks)

phase 5: Deployment (1 week)

Sp. 9  
30/9/24