Manager's Report - Term Project

Roles assigned

- **Backend**
  - Dias Mashikov
    - Login and Registration APIs
    - Authorization and encryption
  - Het Pathak
    - Card API
    - Payment processing
  - Bandhan Patel
    - Initial backend setup
    - Customer API
    - Cart API and Inventory API
    - Transaction API
- Frontend
  - Santos Ochoa
    - Figma design
    - Basic React component structure
  - Michael Robinson
    - Integration of APIs in frontend components
    - Implementation of Authorization in frontend
- Presentation
  - Dias Mashikov
    - File schema
    - Secure login demo
  - Het Pathak
    - 3NF Decomposition
  - Bandhan Patel
    - UML database design
  - Santos Ochoa
    - Comparison between 3NF, BCNF, and UML
  - Michael Robinson
    - Project Summary
    - BCNF decomposition

Work distribution

- **Michael Robinson**
  - Manager's report
  - Parts of documentation related to assigned roles
  - Integration of APIs in frontend components
  - Implementation of Authorization in frontend
  - Project Summary for presentation
  - BCNF decomposition
  - Video presentation
- **Santos Ochoa**
  - Parts of documentation related to assigned roles
  - Comparison between 3NF, BCNF, and UML
  - Figma design
  - Basic React component structure
- **Bandhan Patel**
  - UML database design
  - Parts of documentation related to assigned roles
  - Initial backend setup
  - Customer API
  - Cart API and Inventory API
  - Transaction API
  - Video presentation
- Dias Mashikov
  - File schema
  - Secure login demo
  - Parts of documentation related to assigned roles
  - Login and Registration APIs
  - Authorization and encryption

Self assessment

For our term project we aimed to create an application where users can go through a realistic process of applying for a credit card. We also were determined to add simulated real time payment processing so we could expand on the functionality of the cards. The database design for our project was fairly complex, and achieving complete functionality was a challenge, but we are happy with the end product. There was a pretty severe time crunch in the last couple of days before the in class presentation, but we managed to have a functional prototype in time for the demonstration. We went back over the project afterwards to achieve a greater level of polish for the final submission. We are satisfied with how everything turned out in the end, and we feel that our app is sufficiently presentable and ambitious.