As the boat rental business grows up, accounting will become a more and more difficult task. Processing all the business transactions through paper could be a time-consuming task to do and require a lot of human labor. A large amount of human labor would increase the cost of business's operation and could also introduce a high rate of human error. Utilizing a database and developing some accounting programs could greatly ease the business accounting process and reduce errors.

I developed a program to provide three functionalities to ease the business accounting process: income report generation, rental payment checking, and renter transaction report generation.

Income Report Generation:

Given a period, my program can generate a business income report on all payments that renters have paid to the boat-rental company over the period.

Rental Payment Checking:

Given a renter's unique id, a boat's unique id and a transaction date, my program can try to find a boat reservation in the past that match these inputs, and it will check the renter's payments for this reservation.

Renter Transaction Report:

Given a renter's unique id and a period, my program can list the renter's all transactions history over the period, including reservations and payments.