

Bhuvesh Gupta
bgupta1@umd.edu
UID: 117326611
Secure Coding ENPM809W

Project Name:

Bikes and Parts Management System

Project Description

Bikes and Parts Management System is about managing bikes and parts for patrons to buy or rent based on their requirements. Supervisors can also view the sales and related data along with adding or removing user accounts.

Project Details:

- The project is about a university bike shop where bikes and their parts would be managed.
- Only the university students would be allowed to be the patrons at the shop. This requirement can be checked by verifying their University ID number. Using the portal, patrons (only students are allowed), bikes and parts details can be managed. Every bike will have a bike number and every part will have its own unique number for identification. It will help to correlate the patron with the bike and parts. It will also help in verifying if the patron is returning the same bike which they rented.
- There would be bikes and helmets of different sizes which patrons would be able to choose from based on their heights.
- Patrons would have an option to either rent a bike or buy it. The bike parts can only be purchased and cannot be rented.
- If the patron rents a bike, then there would be a due date to return the bike or else patron will have to pay the penalty for returning the bike late.
- Inventory for bikes and parts would be maintained to check how many bikes or parts are remaining.
- The patron can create orders to make purchases and payments.

- The sales page would show all the sales made and income generated and a page for adding and removing students would also be there whose records would be used to verify if the patron is a student or not. These pages would only be accessible by the store supervisor.