

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY ALLAHABAD

DBMS Mini Project: Online RentABike system

Abstract of the project:

Develop an online RentABike system which provides facility to the people to look for bikes available in the city. Online RentABike system provides an efficient way to rent a bike in contrast to traditional time and energy consuming methods. The online rent a bike System has at least five key features: (1) To provide a user-friendly online bike renting function to the people; (2) people can easily rent the bike based on their requirements and choices; (3) the system provides the details of the bike; (4) the duration of availability and number of bikes available should display to the people (5) to design the system that is easy to maintain and upgrade.

Technology

Backend: MySQL, Javascript, JDBC, etc. (It is important for students to apply what they have learned in the DBMS course)

Frontend: Any technology of choice.

Functional components of the project:

Following is a list of functionalities of the system. More functionality that you find appropriate can be added to this list. At places where the description of functionality is not adequate, you can make appropriate assumptions and proceed.

Functional Requirements for Members

- Login
- Search information on Bikes
- Booking of bike
- Cancellation of the booked bike
- Filling personal information
- Online transaction of payment
- Receive invoice

- Change of password

Functional Requirements for Administrators

- Login
- Update information on bike
- Update information of member
- Update information on administrator
- Update invoice and transaction
- Print Invoice
- Print Report
- Change of password

The Following need to be submitted by any member of the group:

1. ER Diagram of your project
2. Schema of each table required in Project
3. Normalize all table up to 3NF
4. Implementation and User Interface
5. All the source code along with instructions to compile and run. Though the project is group-wise, the evaluation (viva, etc.,) would be individual.