

Project Proposal

Team Members

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Meeting Times

Time : Sunday 1:30pm-3:30pm
Location: ZBT 668 w 28th street

Idea

Our plan is to build a web app for bike sharing that will give both suppliers of bikes and those who want to rent a easy to use portal to complete these transactions. There will be two different kinds of profiles, managers (who own the bikes) and customers, and both a shopping list like page to preview and select an available bike to rent. Managers accounts will be able to add new bikes to be rented and update their details (availability, condition, current location). Customer accounts will be able to browse the website for bikes and reserve ones to rent. We'll also add functionality so that customers can be notified when an unavailable bike is back.

GUI

A page for managers to manage all the bikes, containing a list of all bikes and bikes' profiles.
A page for managers to manage all the users, containing a list of all users and users' profiles.
A page for customers to browse and rent all the available bikes.
A page contains the general information, such the rental store's location, and supports the login and sign up.

Multi-Thread

A thread can monitor when a bike is returned by the customers and notify the manager.
A customer can add a currently unavailable bike to wishlist and a server side thread that will continuously check if that bike is available and notify the customer by email.

Networking

Use network communication between the server side and client sides to ensure that the bikes list and user list are always up to date.