

LLD Export

Explanation:

Our startup aims to provide a convenient and efficient bike rental experience for city commuters, tourists, and bike owners through a smart app. The service allows users to quickly find, unlock, and rent bikes across the city. Key features include real-time search, QR code scanning for unlock, ride tracking, digital payments, and personalized bike recommendations based on nearby availability. Users can filter bikes by distance, price, and type, and compare options using ratings, condition, and speed limit. The step-by-step process is designed to be fast and reliable, with features like live ride tracking, favorite bike station saving, and easy auto-payment. Bike owners can list their bikes and set rental availability, while the app also offers weekend promotions, free first ride, and refunds for mechanical issues. Users can also communicate with support or report bike damage. The app will send push notifications for ride end alerts, maintenance alerts, and fast re-booking, providing a seamless experience for all users. Overall, our goal is to make bike rental a hassle-free, enjoyable experience that encourages sustainable transportation in urban areas.

UML Diagram:

