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| **User Login should perform the following tasks:** | | | |
| **Requirement Number** | **Requirement Specification** | **High Level functionality** | **Comments (If Any)** |
| U001 | <User login specifications here> |  |  |
| U002 | <Manual Role selection e.g. Customer, Manager, Operator or Auto detection by system here> |  |  |
| U003 | <Logon history to be tracked?> |  |  |
| U004 | <Any additional requirements for Login screen?> |  |  |
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| **Customers should be able to perform the following:** | | | |
| **Requirement Number** | **Requirement Specification** | **High Level functionality** | **Comments (If Any)** |
| CUST001 | Rent a bike at any location in the city, as long as there is a working bike available at that location. | * Take user id and location id as input from login screen. * Verify if user has already rented a Bike. * If a bike is already rented then No allocation will be done for the same user * Otherwise locate a ‘Working’ and ‘Not rented’ Bike for the given location. * Mark the identified bike as ‘Rented’ * Track the Activity of this user into a Transaction table for bike id rented by specific user id | Check Requirement CUST007  Can one user rent more than one Bike(s)? |
| CUST002 | Return a bike to any location. When a customer returns a bike, their account is charged an amount depending on how long the bike rental was. | * Take user id and location id as input from login screen. * Perform validation to confirm, if the Bike is ready to release i.e. the bike has an active renting going on. * If No, notify this bike can not be release. * Otherwise, mark the Bike as released * Update the returning location of the bike * Calculate the duration of rent and charges for the rent * Update charges and deduct from user account | Duration to be stored in activity table?  Rate / hr **or** Rate / 30 minutes? |
| CUST003 | Report a bike as defective | * Take Bike number as input from User. * Mark the ‘status’ column in Bike table as ‘Defective’ to indicate Bike is not working * Once the Bike is marked as defective, operator should be able to track it and mark it back as repaired (after repair work) | Need to take any comments what is the problem in detail? |
| CUST004 | Pay any charges on their account | * Take user id / number as input from User login. * Load a specified amount to user’s account | Discuss and finalize. Is it loading account or Paying charges? |
| CUST005 | Can a Bike be both marked defective and returned? |  | Discuss and finalize. Identified by Yosita / Cheng |
| CUST006 | If user returns the Bike within 30 minutes (or any predefined time?) then whether user be charged? |  | Discuss and finalize. Identified by Yosita / Cheng |
| CUST007 | Can one user rent more than one Bike (s)? |  | Discuss and finalize. Identified by Yosita / Cheng |
|  | <Split or Add if any additional items> |  |  |
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| **Operators should be able to perform the following:** | | | |
| **Requirement Number** | **Requirement Specification** | **High Level functionality** | **Comments (If Any)** |
| OP001 | Track the location of all bikes in the city | * Track Bike location across location | Do we need to take location as input and search by location? |
| OP002 | Repair a defective bike | * Track User id as input from login screen. * Take Bike id as input from operator * Mark the bike as ‘Repaired’ or ‘Working’ |  |
| OP003 | Move bikes to different locations around the city as needed | * Track User id as input from login screen. * Take Bike id and location id as input from operator * Move Bike to the desired location | Do we need Bulk movement of Bikes?  Example: Move 10 Bikes from Location A to B? |
|  | <Split or Add if any additional items > |  |  |
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| **Managers should be able to perform the following:** | | | |
| **Requirement Number** | **Requirement Specification** | **High Level functionality** | **Comments (If Any)** |
| MGR001 | Generate reports showing all bike activities over a defined time period, using appropriate data visualization techniques. |  |  |
|  | <Split or Add if any additional items > |  |  |
|  | <Split or Add if any additional items > |  |  |