**Test Cases:**

1. Registration
   1. Input
      1. USERNAME: IronMan234
      2. NAME: Tony Stark
      3. PHONE\_NUMBER: 1234562345
      4. EMAIL: [tony@gmail.com](mailto:tony@gmail.com)
      5. LAST\_LOGIN\_TIME: 2020-10-16 13:20:30
      6. PASSWORD: Pass@123
      7. ROLE: BORROWER
   2. Output
      1. User successfully registered
2. Login
   1. Input
      1. USERNAME: IronMan234
      2. PASSWORD: Pass@123
   2. Output
      1. User successfully Logged in
3. Add Category
   1. Input
      1. CATEGORY\_NAME: Laptop
      2. LENDING\_PERIOD: 10
      3. BAN\_PERIOD: 10
      4. FINE\_PER\_DAY: 1000
   2. Output
      1. Category Added Successfully
4. Add Asset
   1. Input
      1. CATEGORY\_NAME: Laptop
      2. SUBCATEGORY: Lenovo
      3. FEATURE\_DESCRIPTION: High spec Programming laptop
      4. DATE\_ADDED: 2020-10-01
      5. IS\_AVAILABLE: true
   2. Output
      1. Category Added Successfully
5. Insertion into Borrow
   1. Input
      1. TRANSACTIONID: 1
      2. USERID: 1
      3. ASSETID:1
      4. ISSUE\_DATE: 2020-10-02
      5. DUE\_DATE: 2020-10-12
      6. BORROW\_STATUS: Open
   2. Output
      1. Borrow Transaction Successful
6. Insertion into Overdue
   1. Input
      1. TRANSACTIONID: 1
      2. BAN\_START\_DATE:
      3. IS\_FINE\_PAID: false
      4. IS\_BAN\_FINISHED: false
      5. MESSAGE: Ban for 10 days is active
   2. Output
      1. Overdue transaction added successfully
7. Fetch details of Overdue Transactions by Username
   1. Input
      1. USERNAME: IronMan234
   2. Output:
      1. TRANSACTIONID: 1
      2. BAN\_START\_DATE:
      3. IS\_FINE\_PAID: false
      4. IS\_BAN\_FINISHED: false
      5. MESSAGE: Ban for 10 days is active
8. Fetch details of Overdue Transactions by Issue Date
   1. Input
      1. ISSUE\_DATE: 2020-10-02
   2. Output (Overdue Transactions where )
      1. TRANSACTIONID: 1
      2. BAN\_START\_DATE:
      3. IS\_FINE\_PAID: false
      4. IS\_BAN\_FINISHED: false
      5. MESSAGE: Ban for 10 days is active
9. Fetch details of Overdue Transactions by Category
   1. Input
      1. CATEGORY: Laptop
   2. Output (Overdue Transaction where Asset Category is ‘Laptop’ are displayed)
      1. TRANSACTIONID: 1
      2. BAN\_START\_DATE:
      3. IS\_FINE\_PAID: false
      4. IS\_BAN\_FINISHED: false
      5. MESSAGE: Ban for 10 days is active