

## Project

- The mini-project "Bike Records App in C" is an application using C programming. In this application you can do basic tasks like adding bike details, search bike details, delete bike details.

## Requirements

- High Level and Low Level Requirements.

### High level requirements

- \* The application should allow to traverse options.
- \* The application should allow to enter details.
- \* The application should allow to view the list of bike details.
- \* The application should allow to delete the bike details.

### Low level requirements

- \* The application will ask to enter bike details like bike name, bike year/model, CC.
- \* Save a new contact

## SWOT

### \* Strength

- Get to know about the bike.
- Easy to understand the app's interface.
- Displays the details of the bike by using the bike name.

### \* Weakness

- Privacy concern

### \* Opportunity

- It can be used in bike rentals.
- It can be used by people who are bike enthusiasts.

### \* Threats

- Basic design.
- Do not attract old age people.
- Similar apps are there in internet.

## 4W's 1H

- Who
  - A user who wants to know the details of the bike.
- What
  - This application enters, delete, search and list the details of the bike.
- When
  - It is used to know the bike whenever we see the bike.
- Where
  - It can be used in rentals, bike enthusiasts.
- How
  - This application is created by using C programming language.

## Test plan

### High level test plan

Test ID	Description	Exp I/P	Exp O/P	Actual Out	Type Of Test
H_01	Display Main Menu	None	Options to choose operations to be performed	Options to choose operations to be performed	Requirement based
H_02	Exit the Program when user is done with operations	5	Exited	Exited	Requirement based

### Low level test plan

Test ID	Description	Exp I/P	Exp O/P	Actual Out	Type Of Test
L_01	Add a new Bikerecord	1	Options to Enter Bike name, Year, CC	Options to Enter Bike name, Year, CC	Requirement based
L_02	Diaplay All Records	2	To Display all Records	Displayed all Records	Requirement based
L_03	Delete Record by writing bike name	3	Records Does Not exist	Records Does Not exist	Requirement based
L_04	Save Records to file	4	Records saved	Records saved	Requirement based

## Working

```
vinay@DESKTOP-CJRVPHL:/mnt/e/LTTS/M1_BikeRecords_App/3_Implementation$ make Build
gcc src/function.c src/unity.c src/main.c src/test_demo.c -Iinc -o inux
vinay@DESKTOP-CJRVPHL:/mnt/e/LTTS/M1_BikeRecords_App/3_Implementation$ make Run
gcc src/function.c src/unity.c src/main.c src/test_demo.c -Iinc -o inux
./inux
```

Error: Cannot load the Bike record file

### Bike Records

1. Add a BikeName
2. Display Records
3. Delete a BikeRecord
4. Save Records
5. Exit

Enter your choice:

1

BikeName: Dominor400

Year: 2019

CC: 373

BikeRecord sucessfully added.

## Bike Records

1. Add a BikeName
2. Display Records
3. Delete a BikeRecord
4. Save Records
5. Exit

Enter your choice:

3

Please enter the name of the bike to delete

Dominor400

1 Records deleted

## Bike Records

1. Add a BikeName
2. Display Records
3. Delete a BikeRecord
4. Save Records
5. Exit

Enter your choice:

2

No Existing Record

## Bike Records

1. Add a BikeName
2. Display Records
3. Delete a BikeRecord
4. Save Records
5. Exit

Enter your choice:

5

vinay@DESKTOP-CJRVPHL:/mnt/e/LTTS/M1\_BikeRecords\_App/3\_Implementation\$