Beta Testing Document

for

PedalPal

Version 1.0

Prepared by

Group 5 **Group Name:** DevDynamos

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INDEX

Contents II

Revisions II

1 Introduction 1

2 List of Bugs 2

3 Overall Quality of the Software 3

Appendix A - Group Log 6

Revisions

Version	Primary Author(s)	Description of Version	Date Completed
1.1	**Group 5 - DevDynamos**	Beta Testing for Group 4	00/00/00

1 Introduction

The need for a bike-sharing system like PedalPal stems from the transient nature of student life which means that investing in personal bicycles may not be feasible for many. Renting bicycles will be useful for many, especially during fests and other events. This will also help in reducing waste cycles by reusing them.

At its core, PedalPal is a mobile application that serves as a digital platform for managing bike-sharing operations. Users can access the app to locate nearby bike stands, check the availability of bikes, and rent them for their desired duration.

One of the key features of PedalPal is its real-time information system, which provides users with up-to-date data on the number of available bikes at each stand. This ensures that users can make informed decisions when planning their trips and reduces the likelihood of encountering a shortage of bikes.

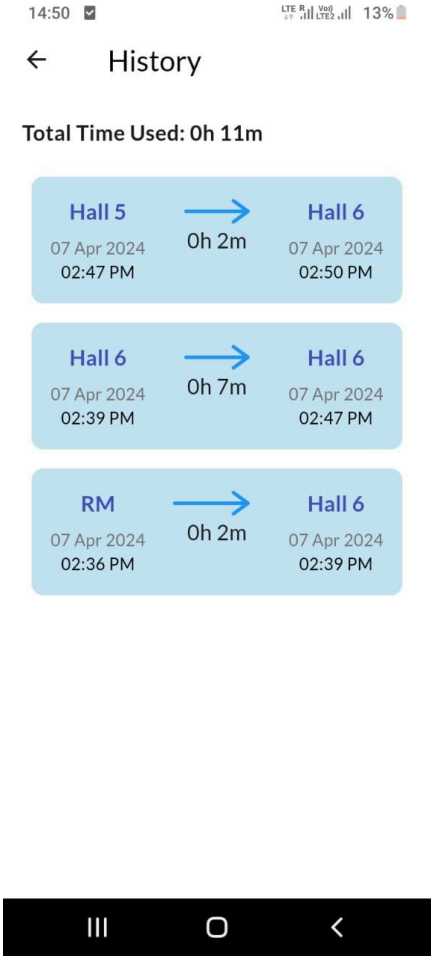
This software is intended to function as a bicycle renting system , exclusively for IITK campus residents.The number of bicycles available at each hub , is displayed.
The user can scan a particular lock and unlock the bicycle to be ridden. The ride starts and the time ridden on the bike is displayed. At the end of the ride, the user can unlock another lock from a particular stand and pay the dues displayed.

The wallet of a particular user can be recharged. And only subscribed users can rent and ride bikes.

2 List of Bugs

BUG 1

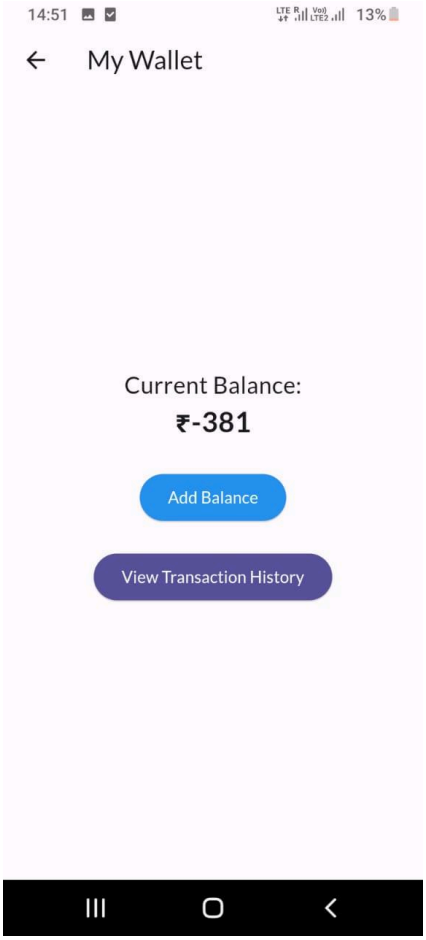
Tested Feature: Testing the duration mentioned in the history section.
Tester Name: Nandini, Shriya
Testing Date: 07/04/2024
Bug Detail: The time displayed is 1 min more than the actual time taken.



Bug Report Date: 07/04/2024
Has the bug been fixed? No
Date of Bug fixing: 12/05/2023
Comments: This has been a minor error but it affects the total time used.

BUG 2

Tested Feature: Checking the admin detail, more specifically admin balance.
Tester Name: Aditya, Anshu
Testing Date: 07/04/2024
Bug Detail: The balance for the account of admin is a negative value.



Bug Report Date :07/04/2024
Has the bug been fixed? No
Date of Bug fixing
Comments: The negative balance is due to booking the ride without having sufficient balance in the wallet, but this may lead to no payment ever. There should be no booking in case of less balance or payment must be made at the time of unlocking.

3 Overall Quality of the Software

1. How good is the user manual? Was it easy to install and run the software?

The user manual is good enough. The links provided in the user manual for installation and running of the code were working well and it was quite easy to run the software. It also provides troubleshooting help.

2. How is the quality of the code? Is it well documented? Is the code modular? Are the variables and the function names meaningful?

The code is short and easy to understand.

In some places, short forms of names are used while in some places, it's hard to understand the context of the variable in the given function.

3. Do you think that the software lacks some major features that may make it less acceptable to the user?

There should be feature to ensure that the lock is unlocked only after making the payment for a cycle while booking it.

The user can ride the bike without returning it ever.

The user can ride the bike for more duration than his wallet balance permits. In this case, the wallet balance goes to negative.

There should be a feature to ensure that the user can ride only for the duration till his wallet balance permits.

4. Does the software not satisfy any major non-functional requirements?

The user can ride the bike for more duration than his wallet balance permits. In this case, the wallet balance goes to negative.

So, there should be a mechanism to ensure that the user can ride only for the duration till his wallet balance permits.

The user can ride the bike without returning it ever. There should be a mechanism to ensure the safety of the bikes.

Appendix A - Group Log

S.NO.	Date	Timing	Description
1.	4/04/24	6-8 pm	Met in person with the group members of group-13 , tested their software and raised issues on GitHub profile.
2.	7/04/24	8-9:30 pm	Discussed the bugs raised by their group members and fixed all the issues
3.	11/04/24	5:15 pm - 6:30 pm	Collaboratively proceeded with the Beta testing document.