**1-Introduction**

in the past few years Mum had faced some problems in managing bicycles, a lot of bikes are almost everywhere in the campus either broken or left unused in a good shape, so we had think of a system that manage these bicycles either by renting it or transfer it to a new comer or recycle it if it is broken and that will benefit both the original owner and the university.

**2. Positioning**

**2.1 Problem Statement**

|  |  |
| --- | --- |
| The problem of | *Managing the bicycles for Mum students and allow the student to rent, share, donate their Left unused bikes* |
| Affects | *Students, Faculties, Staff and the University* |
| the impact of which is | *Identifying and Collecting the bicycle that has no owner is a little bit challenging for the university because the bicycle doesn’t have a tag or a sticker on them.* |
| a successful solution would be | *One tool which builds a bike management system that integrates the rule of the university to recycle the old unused bikes, this tool will provide a database and a user interface that is easy to use for the university, staff and students* |

**2.2 Product Position Statement**

|  |  |
| --- | --- |
| For | *Students, Faculties,Staff, University* |
| Who | *Students, Faculties,Staff, University will benefit from it* |
| The (product name) | *is a service category (MUM bike management system)* |
| That | *Will help in recycling the unused bikes and free up some space* |
| Unlike | *Didn’t find competitive system* |
| Our product | *Didn’t find* |

**3. Stakeholder Descriptions**

**3.1 Stakeholder Summary**

University: Manage the process of the registerning,renting,selling, collecting, recycling the bikes

Staff: can rent,sell, buy,donate and report stolen bikes

Students: can rent,sell, buy,donate and report stolen bikes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Problem** | **Need** | **Priority** | **Features** | **Planned Release** |
| Admin(Data Entry Clerk) | | | | |  |
| 1 | All the bicycle that is found in MUM are not registered | All bicycle need to be registered |  | The data entry clerk can registers and delete bicycle entries. |  |
| Faculties | | | | |  |
|  |  |  |  | Faculties can sell/rent/report stolen bicycle |  |
| Student | | | | |  |
|  |  |  |  | Student can sell/rent/donet their bicycle.They can also  report stolen bicycle |  |

Functionalities of the system:

1- Student can transfer the bikes

2- Student can donate bicycles to the university

3- the bikes has to be registered to the university and the last will send a sticker to the owner

4- Reporting for stolen bikes

5- Student can rent his bike (to another student or university (rec center))

6- Reporting for accidents

7- asking for repair

8- new comer can request a bike from the university (FIFO)

Main Classes:

1- Owner (Student, Stuff or University)

2- Administrator

3- vehicle (bicycle)