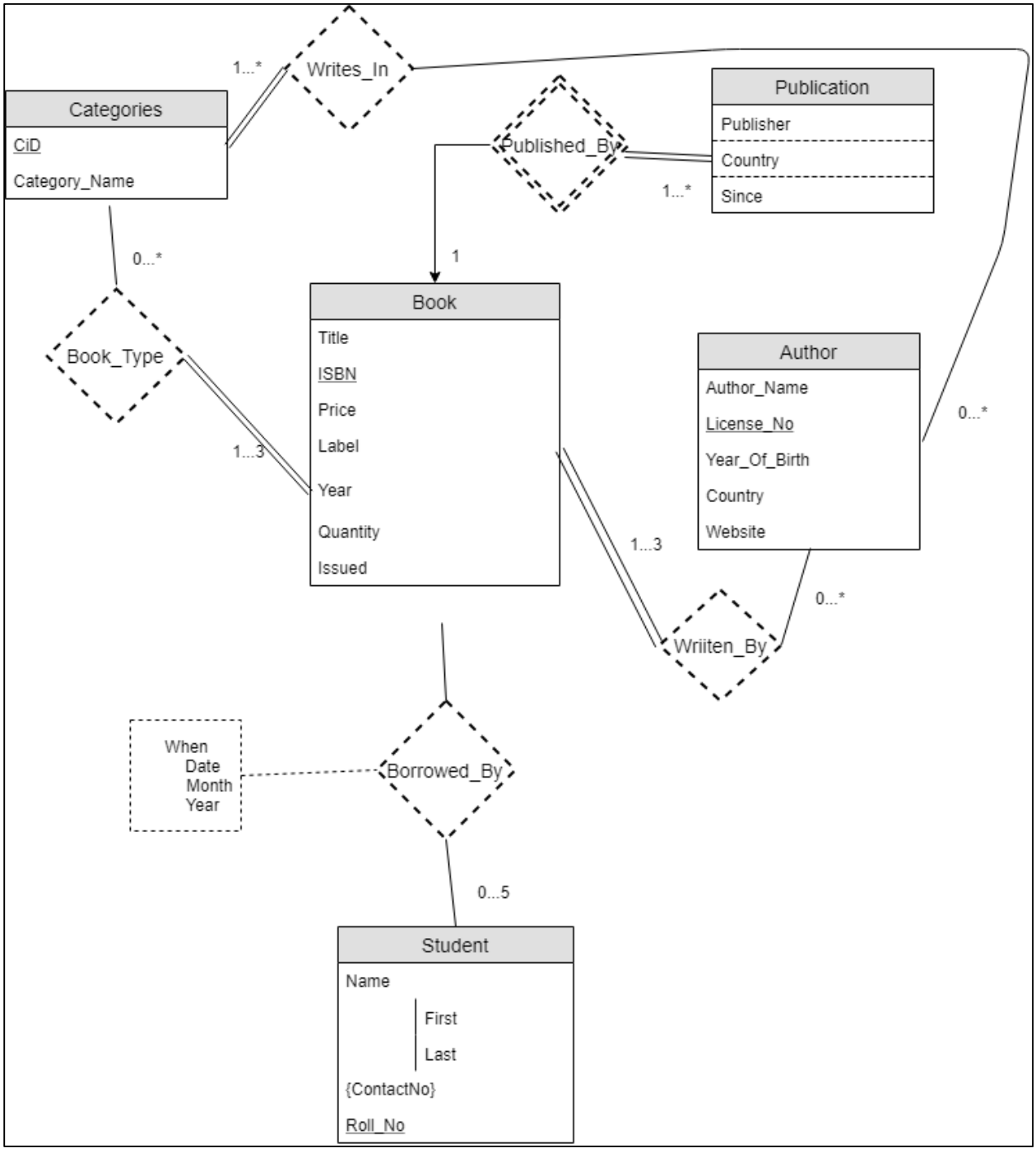
PROJECT SYNOPSIS *Aatish Chauhan 2017001 Akash Singh 2017013*

ER Diagram:



Relational Schemas:

1. Categories(CiD, Category_Name)
2. Publication(ISBN,Publisher,Country,Since)
3. Author(Author_Name,License_No,Year_Of_Birth,Country,Website)
4. Student(Name_First,Name_Second,Roll_No)
5. Stud_Cont(Roll_No,ContactNo)
6. Book(Title,ISBN,Price,Label,Year,Quantity,Issue)
7. Writes_In(CiD,License_No)
8. Book_Type(CiD,ISBN)
9. Borrowed_By(ISBN,Roll_No,When_Date,When_Month,When_Year)
10. Written_By(ISBN,License_No)

Objective: To represent the database of a college library.

Explanation:

Our project simulates a small level Library Database.

We will have 2 types of access : Admin and Student.

First we might fill the database with sample data. Any change or update to the data about Books (adding/deleting), Publishers, Authors, Categories will be concerned with Admin only and will be managed by him.

Moreover database will also get updated when a student issues a book or returns book to maintain the record.

We have assumed the following conventions:

1. A book can have at max 3 Authors.
2. Student can issue maximum 5 books at a time.
3. A book can be described by almost 3 categories.
4. A book have many copies. All copies are indistinguishable. Only number of copies is what matters.

Our project may contain a GUI based java application (or any suitable Front-End) for the handling of the database by admin and student.

Implementation Platform Detail:

Our implementation will mainly use JAVA, JDBC API and MySQL.