

Cycle Management

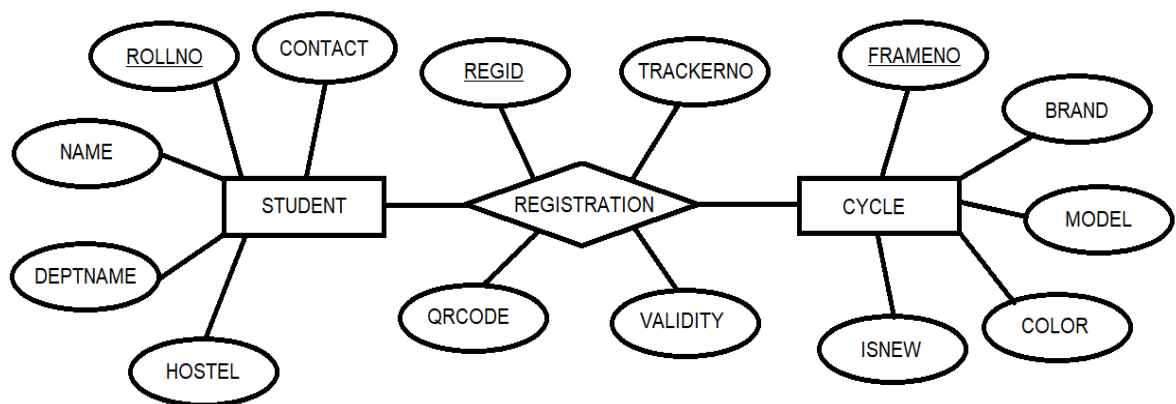
Problem Statement - Ensuring proper security and management of cycles inside the campus.

Database used - RDBMS (SQL)

Description -

- This project is an attempt to solve the cycle management and security problem inside the NITT campus. Every student who buys a cycle has to register in this cycle management system. On registration, he/she gets a tracker installed in his/her cycle (irremovable) and an QR sticker (which he/she must stick on the body of cycle).
- Now, whenever any cycle which is not kept in proper place is found, the corresponding student will be identified by scanning the QR code on the cycle, and he/she will be fined appropriately.
- Every student can find his/her cycle using the tracker that was installed during the registration process, hence providing security of the cycle inside the campus.
- At the end of every year members of Recycle group identify all the cycles (whose registration has been expired) in the campus and are dumped in random places, and send them to recycle (repair and resell to new students) making the campus look cleaner and in order.

ER Diagram -

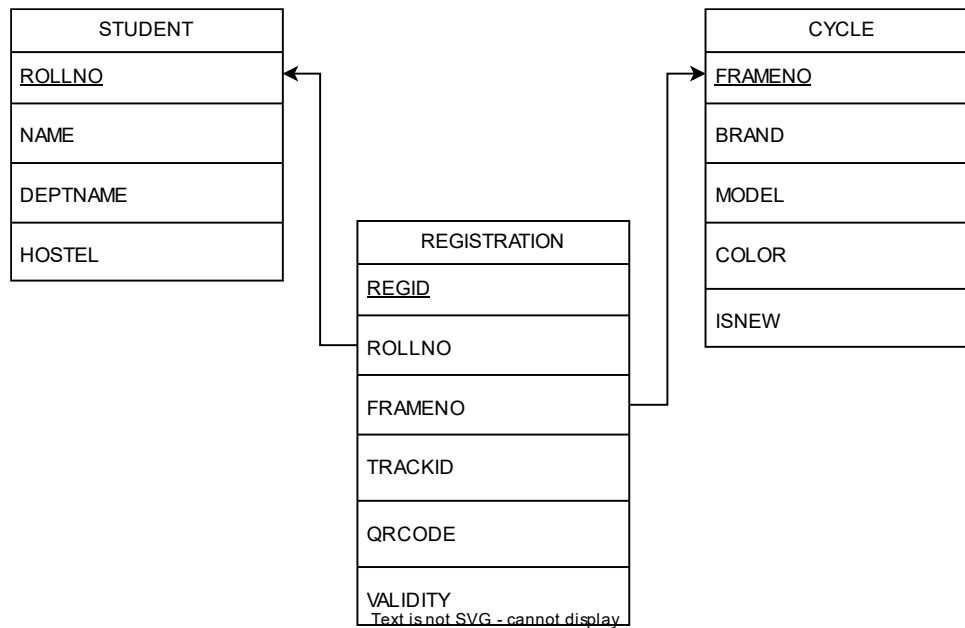


Database Schema -

STUDENT (ROLLNO, NAME, DEPTNAME, HOSTEL)

CYCLE (FRAMENO, BRAND, MODEL, COLOR, ISNEW)

REGISTRATION (REGID, ROLLNO, FRAMENO, TRACKERID, QRNO, VALIDITY)



Stakeholders -

1. Student

Schema:

STUDENT (ROLLNO, NAME, DEPTNAME, HOSTEL)

CYCLE (FRAMENO, BRAND, MODEL, COLOR, ISNEW)

2. Seller

Schema:

CYCLE (FRAMENO, BRAND, MODEL, COLOR, ISNEW)

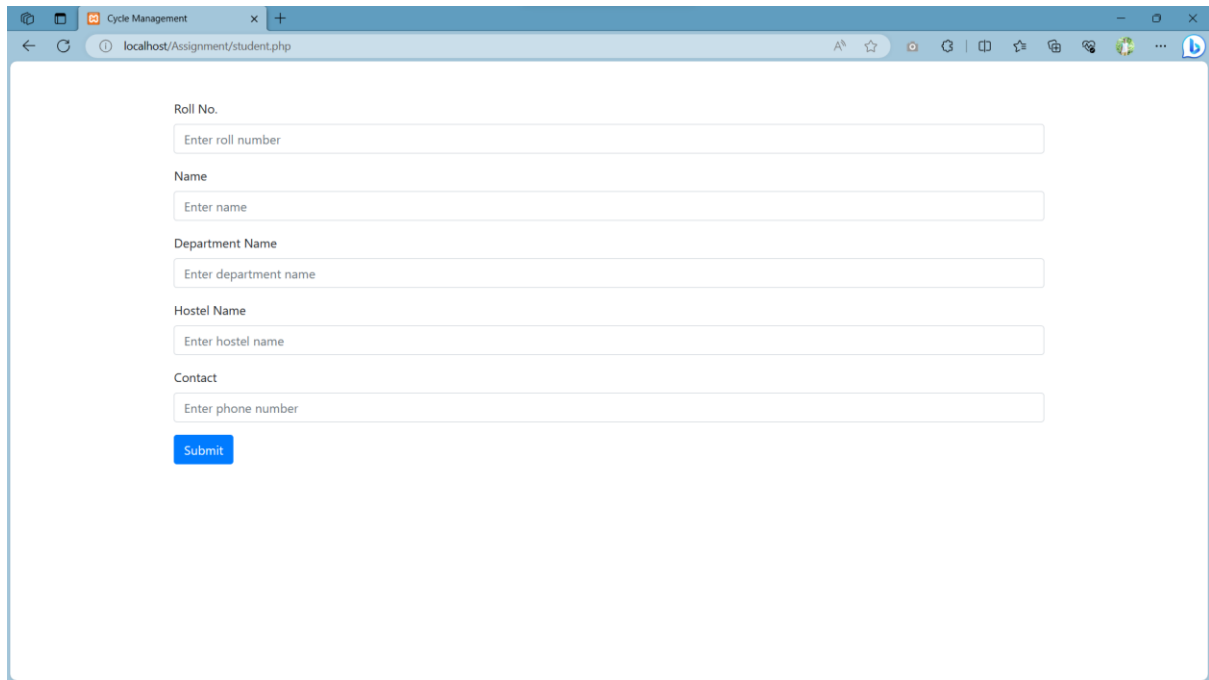
3. Admin

Schema:

REGISTRATION (REGID, ROLLNO, FRAMENO, TRACKERID, QRNO, VALIDITY)

Screenshots of frontend -

1. In this page, a student adds its details.



A screenshot of a web browser window showing a form for adding student details. The browser's address bar shows 'localhost/Assignment/student.php'. The form contains five input fields with labels: 'Roll No.', 'Name', 'Department Name', 'Hostel Name', and 'Contact'. Each field has a placeholder text: 'Enter roll number', 'Enter name', 'Enter department name', 'Enter hostel name', and 'Enter phone number' respectively. Below the fields is a blue 'Submit' button.

Roll No.
Enter roll number

Name
Enter name

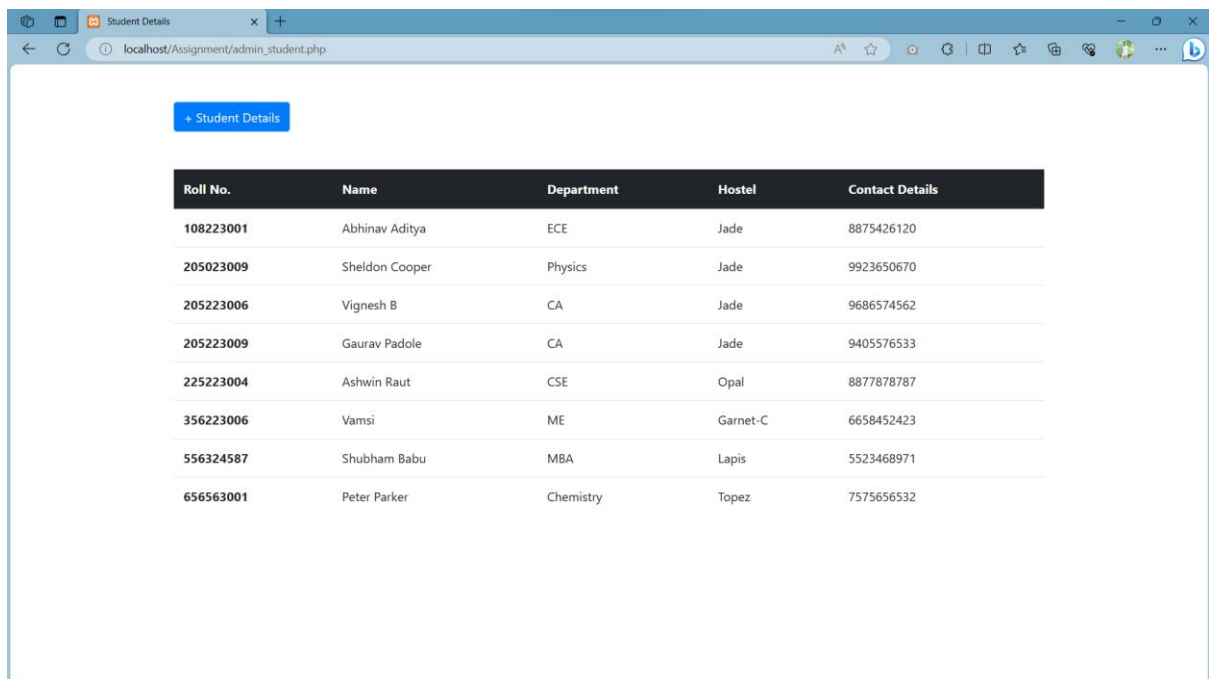
Department Name
Enter department name

Hostel Name
Enter hostel name

Contact
Enter phone number

Submit

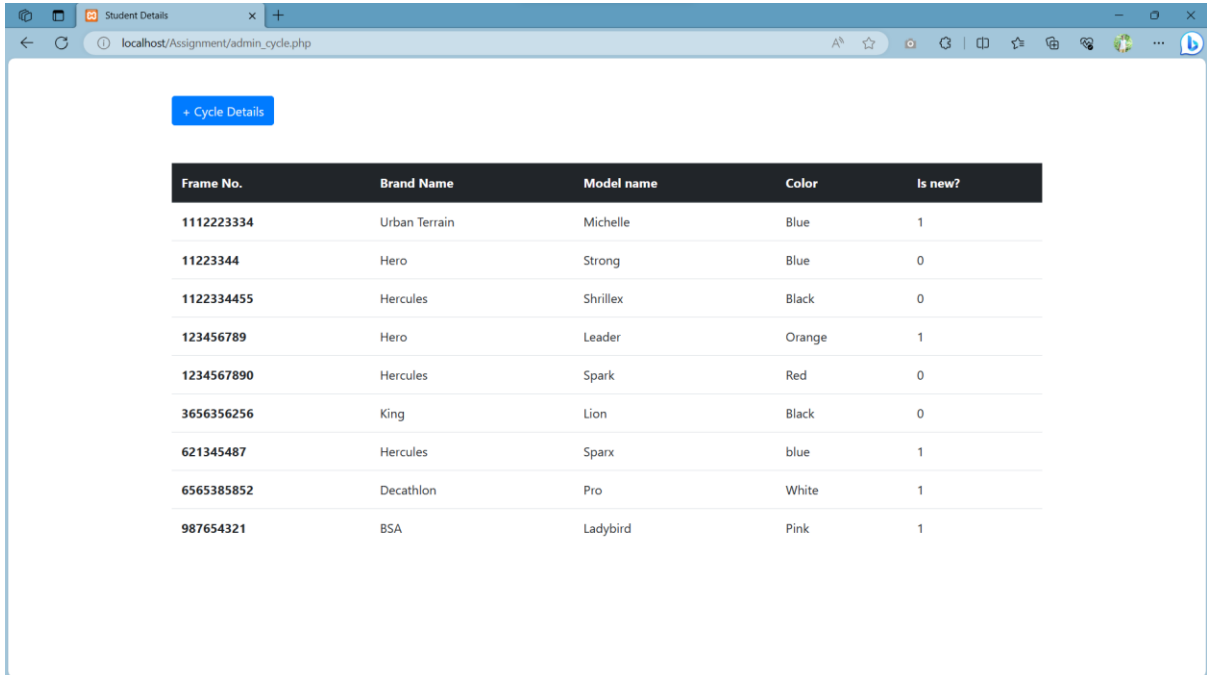
2. In this page admin can view existing student details and add new student details.



A screenshot of a web browser window showing a table of student details. The browser's address bar shows 'localhost/Assignment/admin_student.php'. At the top left of the page is a blue button labeled '+ Student Details'. Below it is a table with five columns: 'Roll No.', 'Name', 'Department', 'Hostel', and 'Contact Details'. The table contains eight rows of student data.

Roll No.	Name	Department	Hostel	Contact Details
108223001	Abhinav Aditya	ECE	Jade	8875426120
205023009	Sheldon Cooper	Physics	Jade	9923650670
205223006	Vignesh B	CA	Jade	9686574562
205223009	Gaurav Padole	CA	Jade	9405576533
225223004	Ashwin Raut	CSE	Opal	8877878787
356223006	Vamsi	ME	Garnet-C	6658452423
556324587	Shubham Babu	MBA	Lapis	5523468971
656563001	Peter Parker	Chemistry	Topez	7575656532

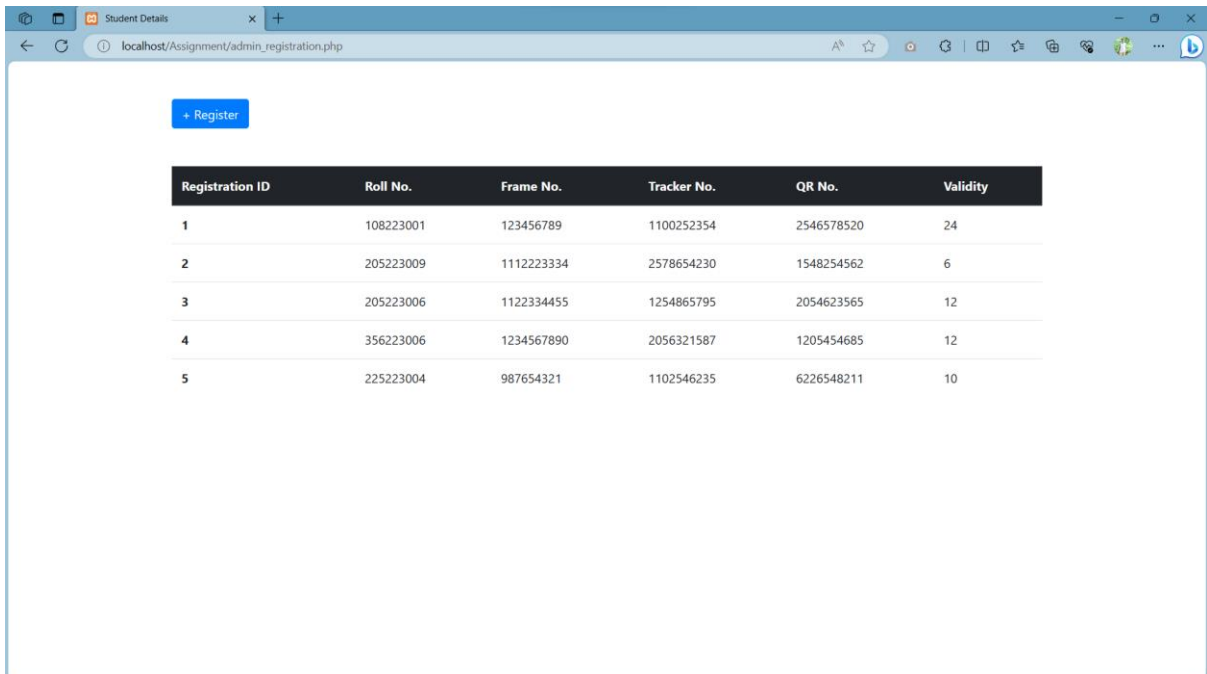
3. In this page admin can view existing cycle details and add new cycle details.



The screenshot shows a web browser window with the address bar displaying 'localhost/Assignment/admin_cycle.php'. The page has a blue header bar with the text 'Student Details' and a '+' icon. Below the header, there is a blue button labeled '+ Cycle Details'. The main content area contains a table with the following data:

Frame No.	Brand Name	Model name	Color	Is new?
1112223334	Urban Terrain	Michelle	Blue	1
11223344	Hero	Strong	Blue	0
1122334455	Hercules	Shrillex	Black	0
123456789	Hero	Leader	Orange	1
1234567890	Hercules	Spark	Red	0
3656356256	King	Lion	Black	0
621345487	Hercules	Sparx	blue	1
6565385852	Decathlon	Pro	White	1
987654321	BSA	Ladybird	Pink	1

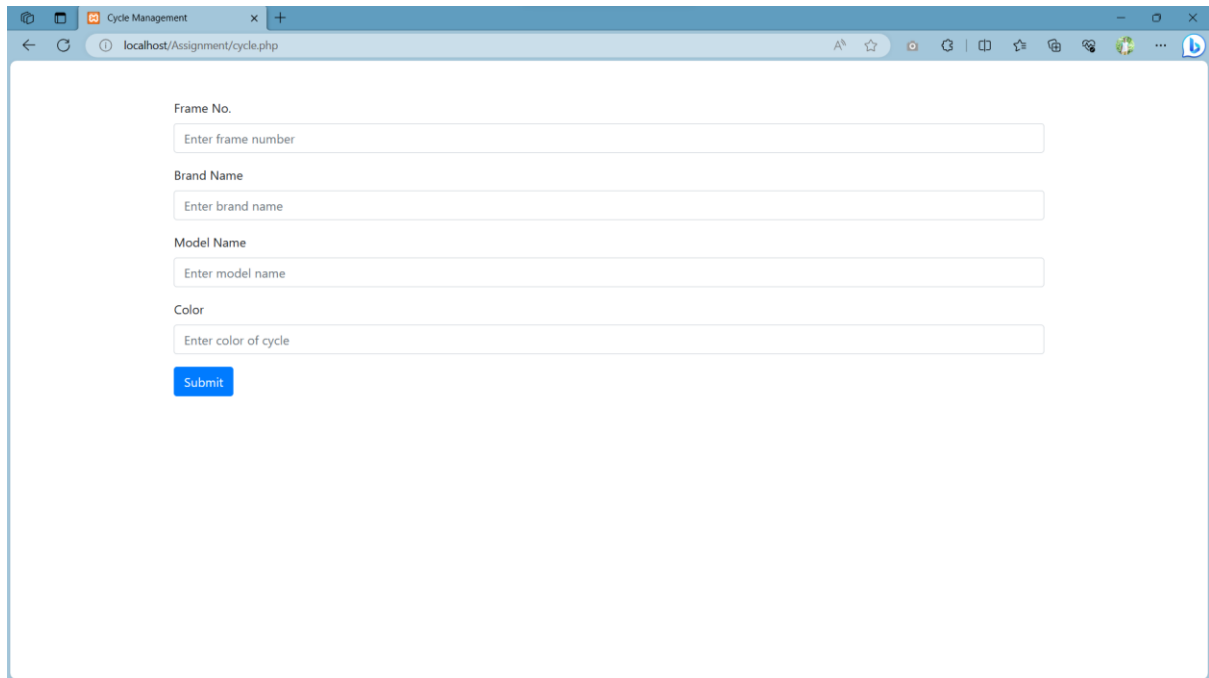
4. In this page admin can view all existing registrations and register new entries.



The screenshot shows a web browser window with the address bar displaying 'localhost/Assignment/admin_registration.php'. The page has a blue header bar with the text 'Student Details' and a '+' icon. Below the header, there is a blue button labeled '+ Register'. The main content area contains a table with the following data:

Registration ID	Roll No.	Frame No.	Tracker No.	QR No.	Validity
1	108223001	123456789	1100252354	2546578520	24
2	205223009	1112223334	2578654230	1548254562	6
3	205223006	1122334455	1254865795	2054623565	12
4	356223006	1234567890	2056321587	1205454685	12
5	225223004	987654321	1102546235	6226548211	10

5. In this page seller can add details of the cycle.



The screenshot shows a web browser window with the title 'Cycle Management'. The address bar displays 'localhost/Assignment/cycle.php'. The page contains a form with the following fields and a submit button:

- Frame No.**: A text input field with the placeholder text 'Enter frame number'.
- Brand Name**: A text input field with the placeholder text 'Enter brand name'.
- Model Name**: A text input field with the placeholder text 'Enter model name'.
- Color**: A text input field with the placeholder text 'Enter color of cycle'.
- Submit**: A blue button with white text.