Project Title

College Admission Management System

Guided By:

Trainer Name:- Anuj Kumar

Created By:-

Student Name	AFid
Yash Gupta	AF04991722

Batch Code:- ANP-D2406

Course Code:- ITPR

➢Introduction:

The College Admission Management System is a simple and efficient digital solution designed to make the admission process faster, easier, and more organized. Traditional

admission methods involve paper forms, manual entries, repeated verification, and difficulty in managing documents and fee details. These issues lead to errors, delays, and poor record-keeping.

To overcome these problems, this project uses **Java (Console Application)** for front-end logic and **MySQL** for secure data storage. The system stores student details using **six structured tables** that cover personal information, address, academic qualifications, course details, fees, and submitted documents. This makes the entire admission process smooth, error-free, and reliable.

➢Objectives:

- ➢To make the admission process fast and user-friendly
- ➢To reduce manual paperwork
- ➢To store student details in a structured database
- ➢To maintain address, qualification, fees, and documents systematically
- ➢To provide quick search and retrieval of student data
- ➢To reduce chances of human error
- ➢To provide a secure and centralized database system

➢Project Category:

Application Development using Java & MySQL

➢Problem in Existing System:

- ♣ Paper forms are difficult to manage
- ♣ Records cannot be searched quickly
- ♣ High chances of human errors
- ♣ Document verification is slow
- ♣ Fees tracking becomes confusing
- ♣ No proper backup of student data
- ♣ Difficult to maintain long-term records

➢Proposed System:

The proposed computerized system solves all existing issues by:

- ♦ Storing each student's information in the database
- ♦ Avoiding duplicate entries
- ♦ Allowing fast student verification
- ♦ Keeping all documents and qualifications linked to a student
- ♦ Providing accurate fee details (total, paid, balance)
- ♦ Ensuring better security and long-term record management
- ♦ Making the admission process organized and efficient

➢Modules Description:

1. Student Admission Module:-

Stores main details: name, father's name, DOB, gender, course, mobile.

2. Address Module:-

Stores student's residential details such as house number, street, city, state, and pincode.

3. Qualification Module:-

Stores student's 10th/12th examination details (board, year, percentage).

4. Fees Module:-

Stores total fee, paid amount, and remaining balance.

5. Documents Module:-

Stores Aadhaar number, 10th and 12th marksheet file names, and photo filename.

6. Course Module:-

Stores course name, duration, and fees offered by the institution.

➢Database Design (6 Tables)

1. ADMISSION TABLE:

Field Name	Data Type	Key	Description
student_id	INT PRIMARY KEY	PK	Unique student ID
name	VARCHAR(100)		Student full name
father_name	VARCHAR(100)		Father's name
dob	DATE		Date of birth
gender	VARCHAR(10)		Gender
course_id	INT	FK	References course(course_id)
mobile	VARCHAR(15)		Contact number

2. COURSE TABLE:

Field Name	Data Type	Key	Description
course_id	INT PRIMARY KEY	PK	Unique course ID
course_name	VARCHAR(100)		Name of the course
duration	INT		Duration in years
fees	INT		Total course fees

3. QUALIFICATION TABLE:

Field Name	Data Type	Key	Description
q_id	INT PRIMARY KEY	PK	Unique qualification ID
student_id	INT	FK	References admission(student_id)
exam_name	VARCHAR(50)		Exam passed
board	VARCHAR(100)		Board name
passing_year	INT		Year of passing
percentage	FLOAT		Marks percentage

4. FEES TABLE:

Field Name	Data Type	Key	Description
fee_id	INT PRIMARY KEY	PK	Unique fee ID
student_id	INT	FK	References admission(student_id)
total_fees	INT		Total course fees
paid	INT		Amount paid
balance	INT		Remaining balance

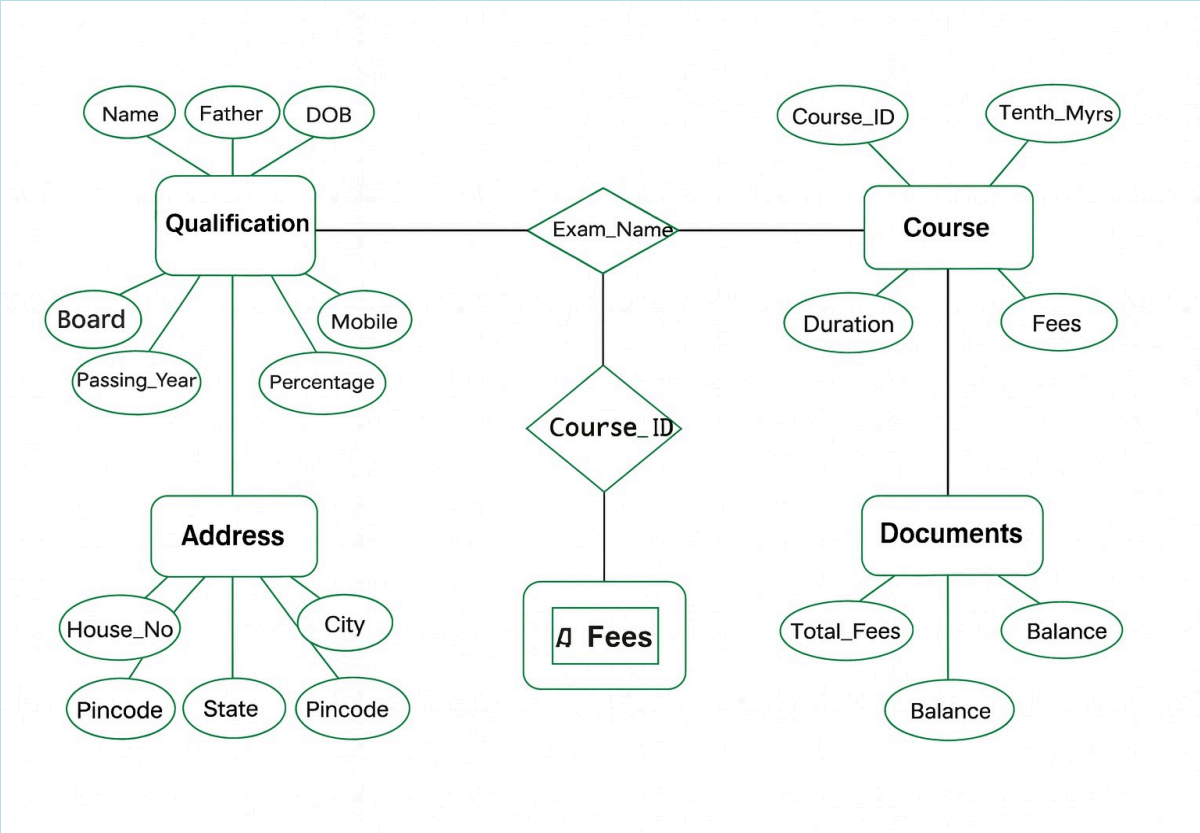
5. ADDRESS TABLE:

Field Name	Data Type	Key	Description
address_id	INT PRIMARY KEY	PK	Unique address ID
student_id	INT	FK	References admission(student_id)
house_no	VARCHAR(50)		House number
street	VARCHAR(100)		Street/Locality
city	VARCHAR(50)		City name
state	VARCHAR(50)		State name
pincode	VARCHAR(10)		Postal code

6. DOCUMENTS TABLE:

Field Name	Data Type	Key	Description
doc_id	INT PRIMARY	PK	Unique document ID
student_id	INT	FK	References admission(student_id)
aadhar_no	VARCHAR(20)		Aadhaar number
tenth_marksheet	VARCHAR(200)		10th marksheet document
twelfth_marksheet	VARCHAR(200)		12th marksheet document
photo	VARCHAR(200)		Student photo

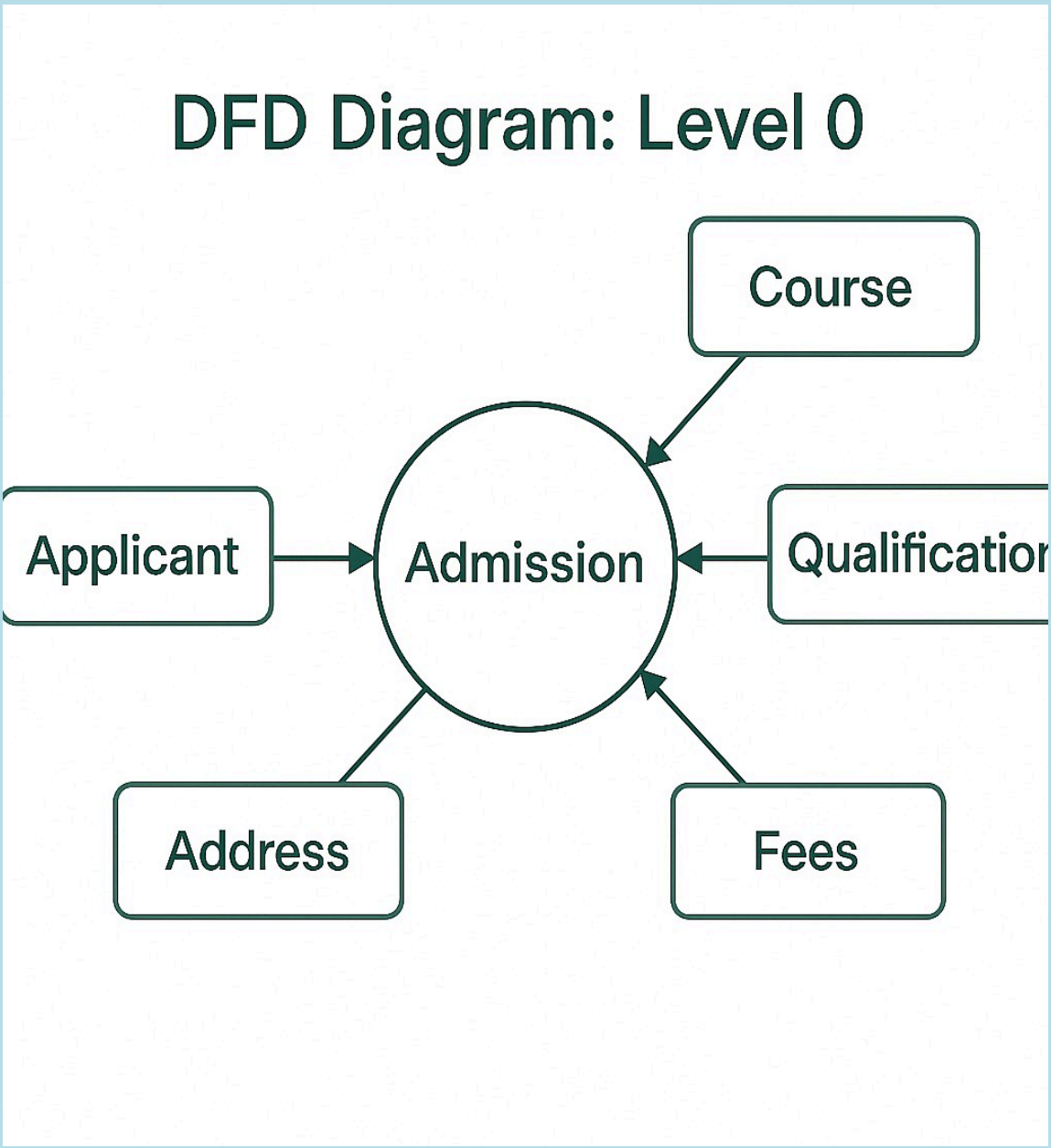
➢ER Diagram Overview:



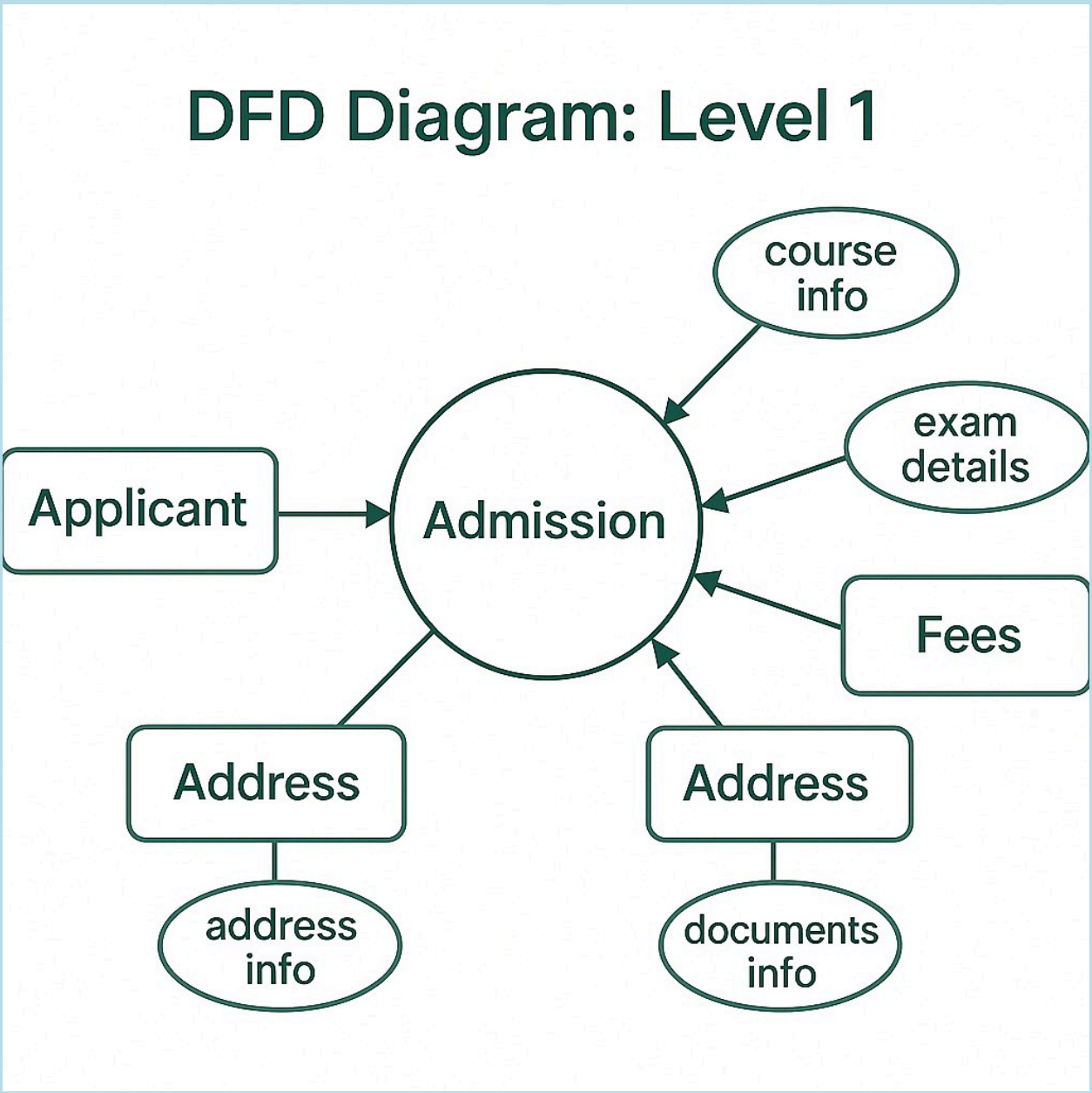
➢Data Flow Diagram (DFD):

♣DFD Level 0:

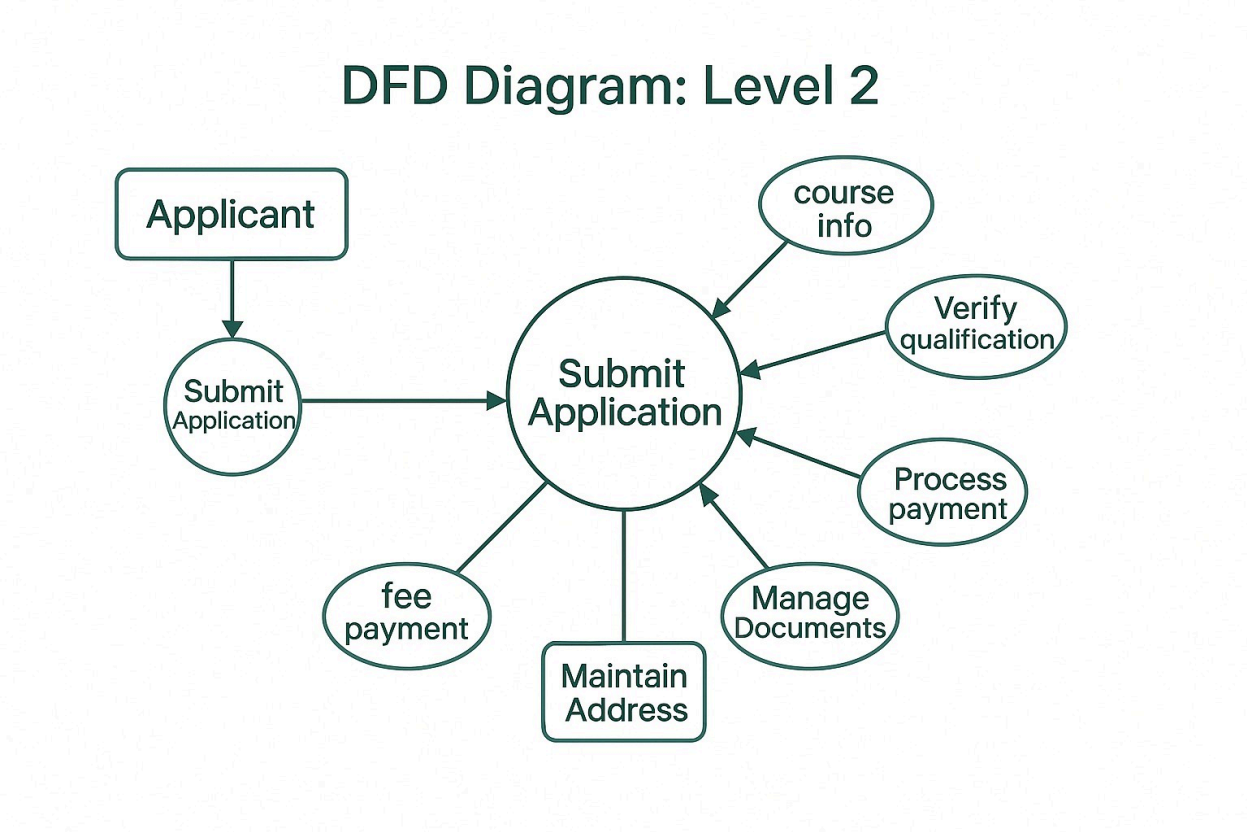
User → Admission System → Database


DFD Diagram: Level 0
Course
Applicant
Admission
Qualificatior
Address
Fees

➢**DFD Level 1:**


DFD Diagram: Level 1
course info
exam details
Applicant
Admission
Fees
Address
Address
address info
documents info

DFD level 2:



➢Platform Used:

Hardware Requirements:

- ♣ Intel processor
- ♣ 4 GB RAM
- ♣ 200 MB free disk space

Software Requirements:

- ➢Windows 10/11
- ➢Java JDK (17 or above)
- ➢Eclipse IDE

- MySQL Server & MySQL Workbench
- JDBC Connector JAR

Future Scope:

- Add graphical user interface (GUI)
- Online admission portal
- Admin login and authentication
- Automatic report generation (PDF/Excel)
- Multi-course enrollment
- Biometric or digital document verification

Bibliography:

- Java Documentation
- MySQL Developer Guide
- JDBC Tutorials