

# **CRUD**

# **OPERATIONS**

**(MVC FRAMEWORK)**

# CRUD

CREATE

ADDING NEW DATA INTO  
THE SYSTEM.

Whenever the system stores  
something new, that's "create."

READ

GETTING OR VIEWING DATA  
FROM THE SYSTEM.

It doesn't change anything; it only  
shows or retrieves information.

UPDATE

CHANGING DATA THAT  
ALREADY EXISTS.

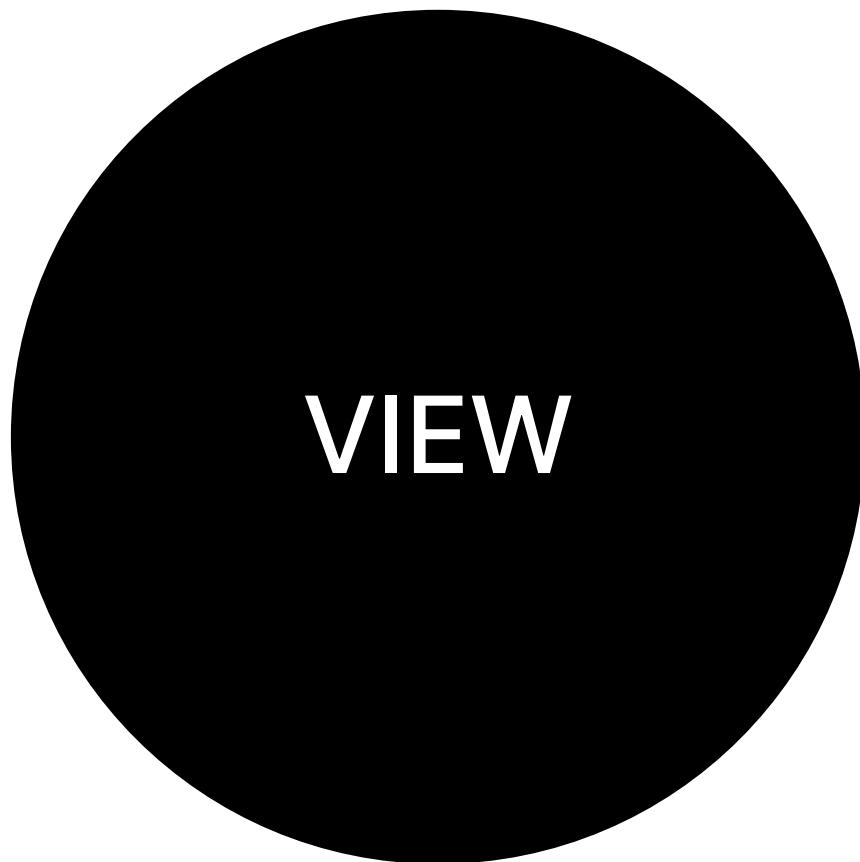
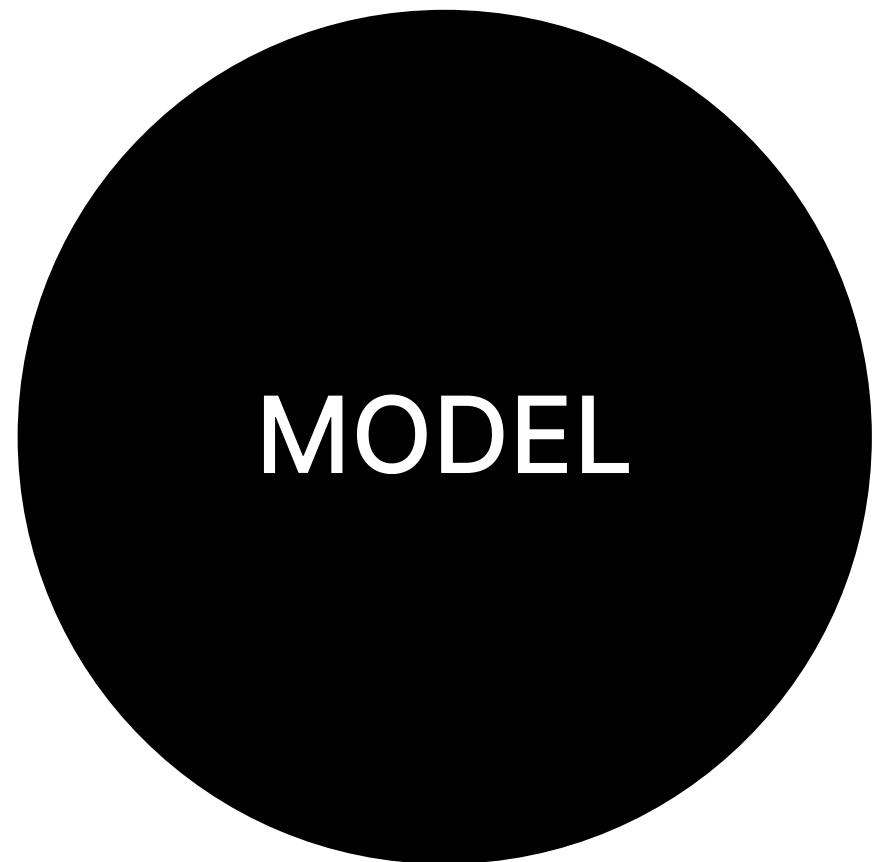
You are not creating a new  
record; you are editing an old  
one.

DELETE

REMOVING DATA FROM  
THE SYSTEM.

It deletes an existing data in the  
system.

# MVC



# MODEL

- MODEL IS THE "DATA WORKER" OF YOUR APPLICATION.

IT DOES THINGS LIKE:

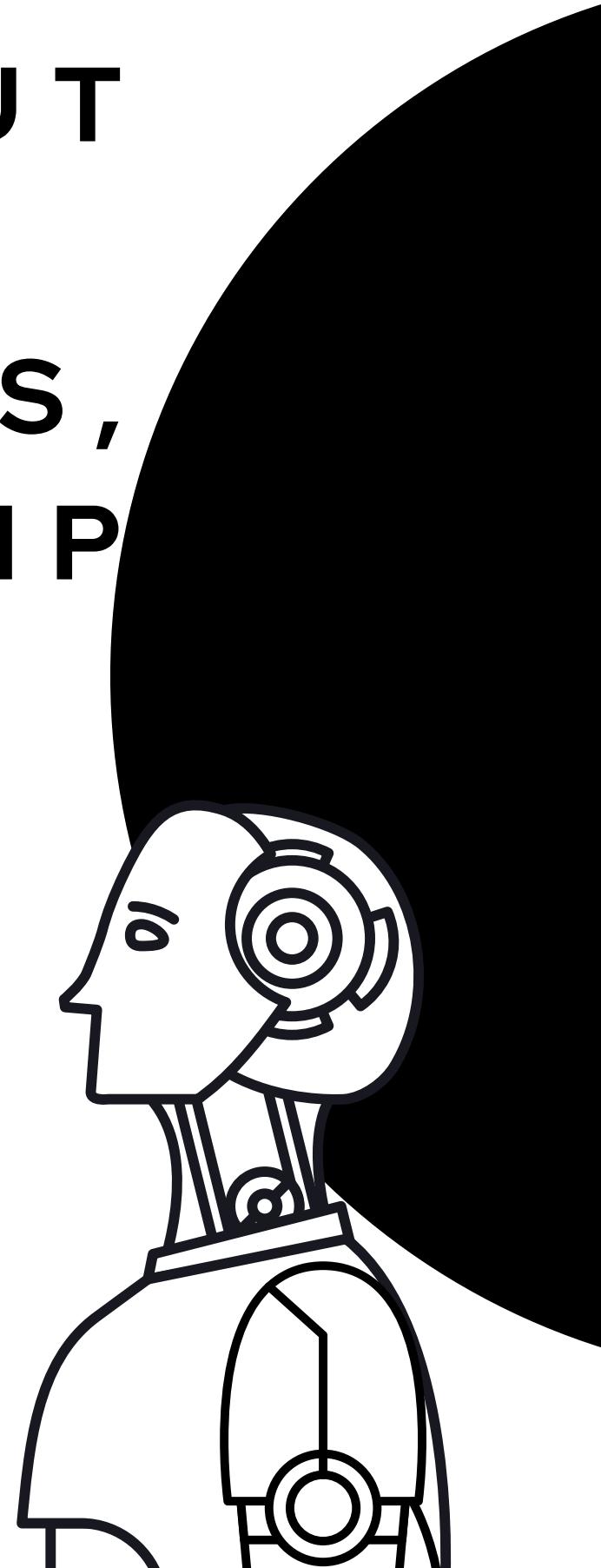
- CONNECT TO THE DATABASE
- INSERT NEW RECORDS
- GET RECORDS
- UPDATE RECORDS
- DELETE RECORDS
- ITS ONLY JOB IS DATA.



# VIEW

- VIEW IS THE PAGE OR LAYOUT THAT DISPLAYS DATA. IT CONTAINS THE HTML, CSS, AND SOMETIMES A LITTLE PHP FOR SHOWING VALUES.

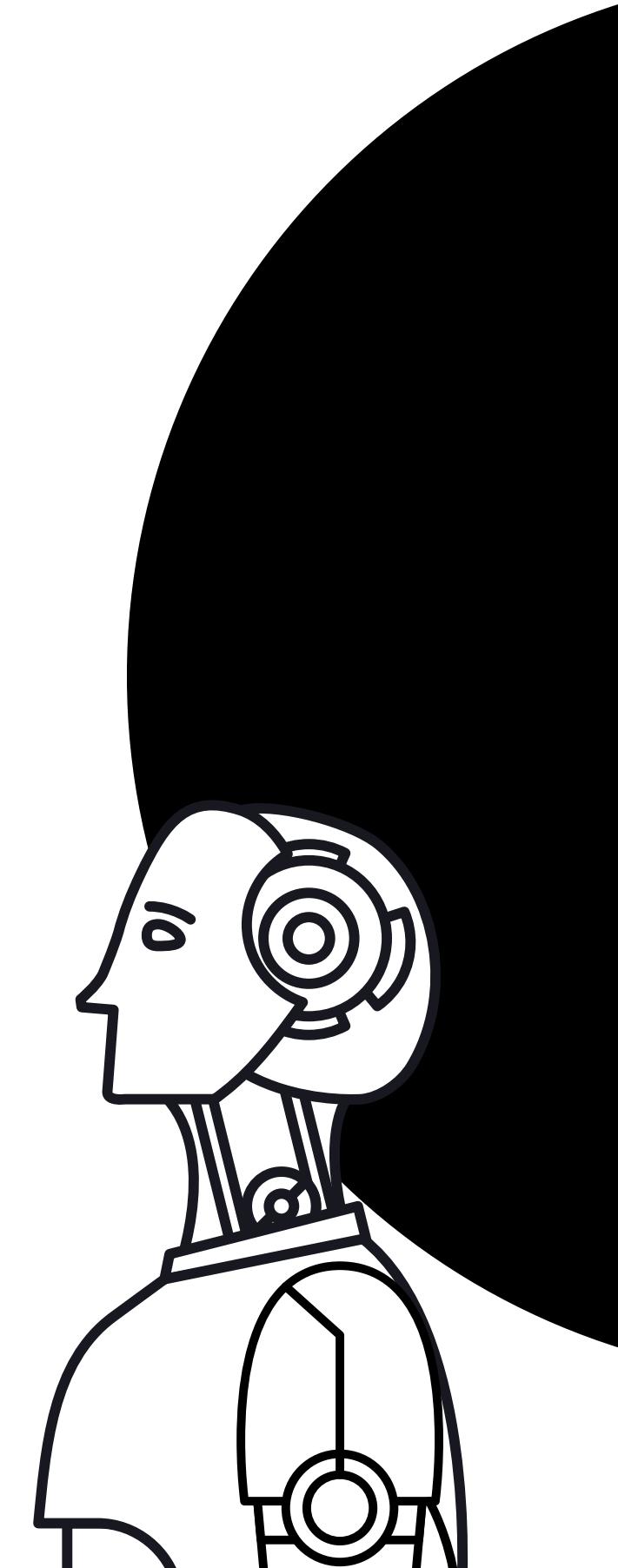
- DISPLAYS TABLES
- SHOWS FORMS
- SHOWS MESSAGES
- SHOWS LIST OF ITEMS
- SHOWS DETAILS OF A RECORD
- ANYTHING THAT APPEARS ON THE SCREEN IS HANDLED BY THE VIEW.



# CONTROLLER

- CONTROLLER RECEIVES THE  
USER'S ACTION.  
THEN IT DECIDES WHAT TO DO  
NEXT.

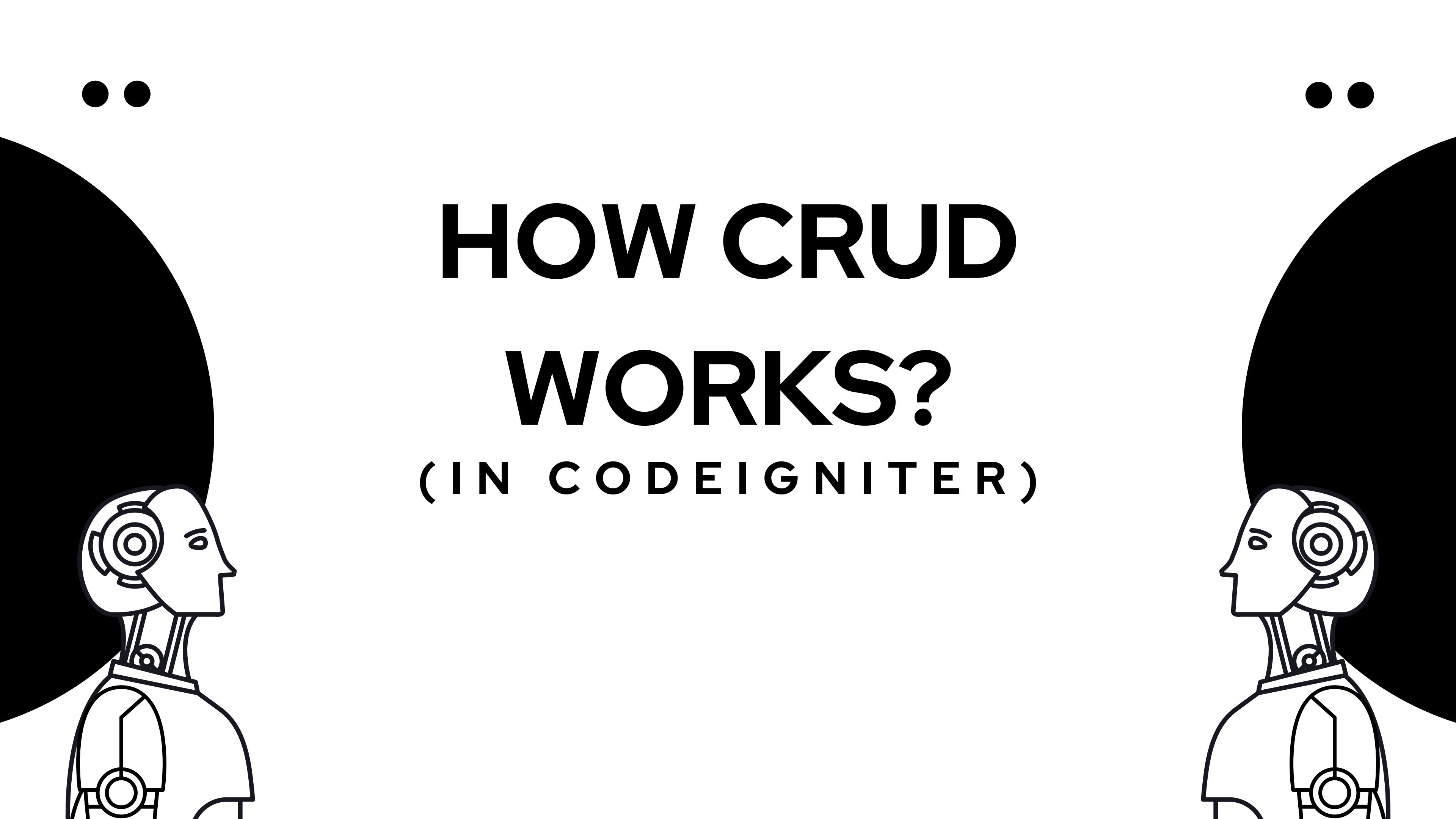
- WHEN YOU OPEN A PAGE
- WHEN YOU SUBMIT A FORM
- WHEN YOU CLICK EDIT OR DELETE
- THE CONTROLLER DECIDES WHICH MODEL FUNCTION TO CALL AND WHICH VIEW TO SHOW.



# WHY MVC HELPS?

- CODE IS CLEANER.
- EASIER TO MAINTAIN.
- EASY TO UPDATE PARTS  
WITHOUT BREAKING OTHER  
PARTS.
- GOOD FOR TEAM WORK.
- MAKES THE SYSTEM  
ORGANIZED.





# **HOW CRUD WORKS?**

**(IN CODEIGNITER)**

# CREATE

- USER FILLS A FORM IN THE VIEW
- CONTROLLER RECEIVES THE FORM DATA
- CONTROLLER CALLS MODEL'S INSERT()
- MODEL INSERTS DATA INTO THE DATABASE



# READ

- CONTROLLER ASKS THE MODEL FOR RECORDS
- MODEL GETS DATA FROM THE DATABASE
- CONTROLLER LOADS THE VIEW
- VIEW SHOWS THE DATA IN A TABLE



# UPDATE

- CONTROLLER LOADS OLD DATA USING MODEL
- VIEW SHOWS THE FORM WITH EXISTING VALUES
- USER SAVES CHANGES
- MODEL UPDATES THE RECORD



# DELETE

- CONTROLLER CALLS MODEL'S DELETE()
- MODEL REMOVES THE RECORD FROM THE DATABASE



**THANK YOU!**

