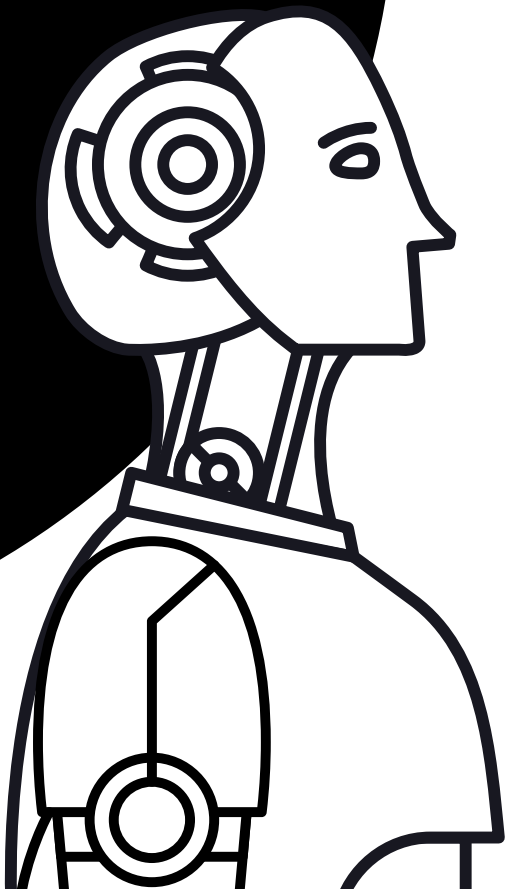


CRUD

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

VIEW

CONTROLLER

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.

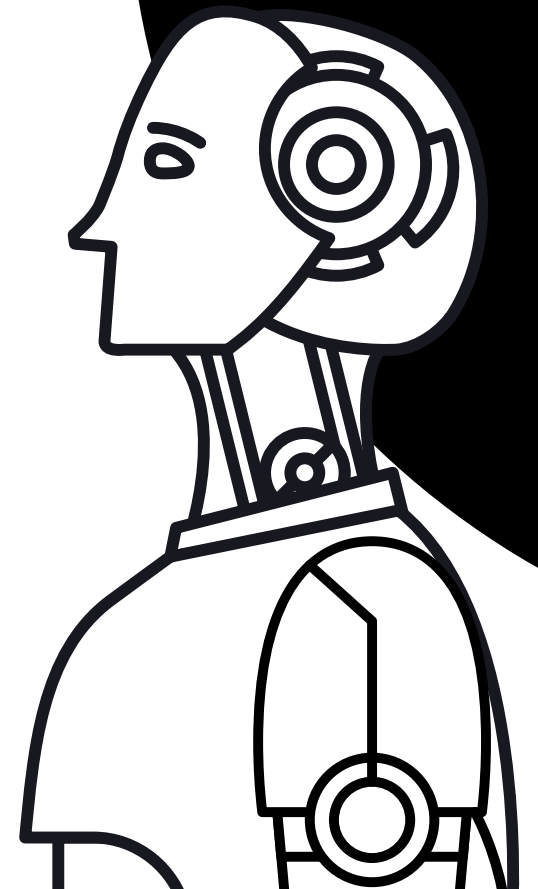
- DISPLAYS TABLES
- SHOWS FORMS
- SHOWS MESSAGES
- SHOWS LIST OF ITEMS
- SHOWS DETAILS OF A RECORD
- ANYTHING THAT APPEARS ON THE SCREEN IS HANDLED BY THE VIEW.



CONTROLLER

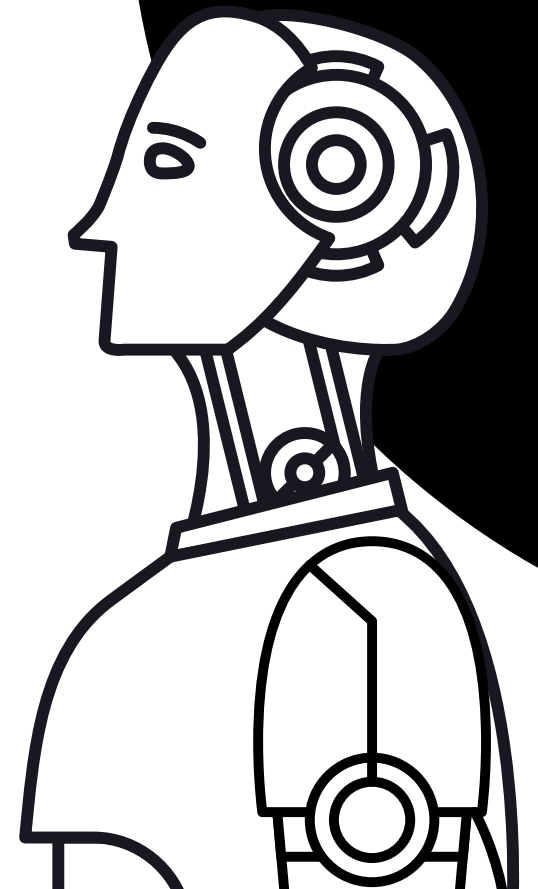
- CONTROLLER RECEIVES THE
USER'S ACTION.
THEN IT DECIDES WHAT TO DO
NEXT.

- 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.

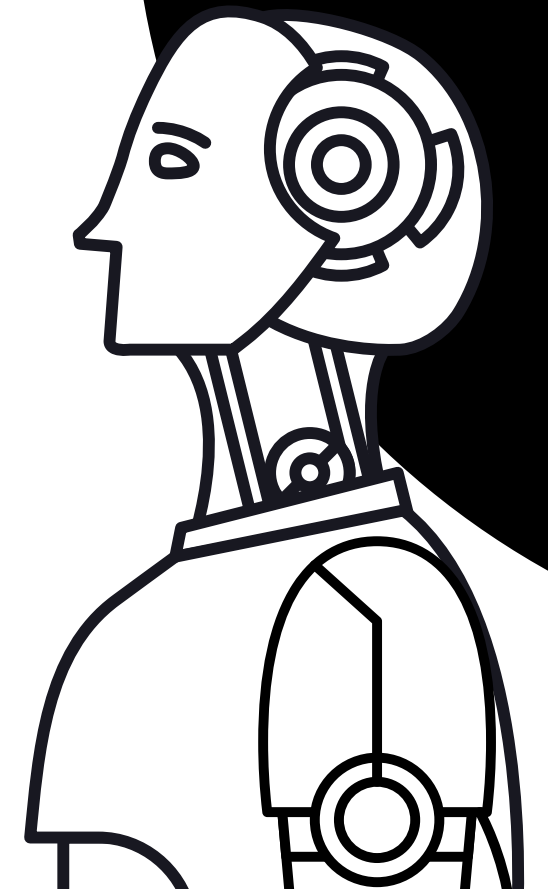


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HOW CRUD WORKS?

(IN CODEIGNITER)

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CREATE

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



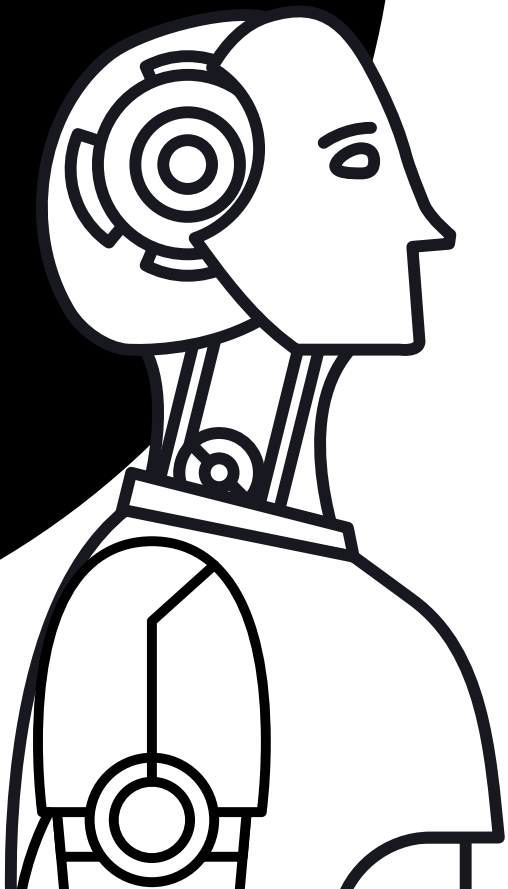
READ

- 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



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THANK YOU!

