Vaccine Distribution System

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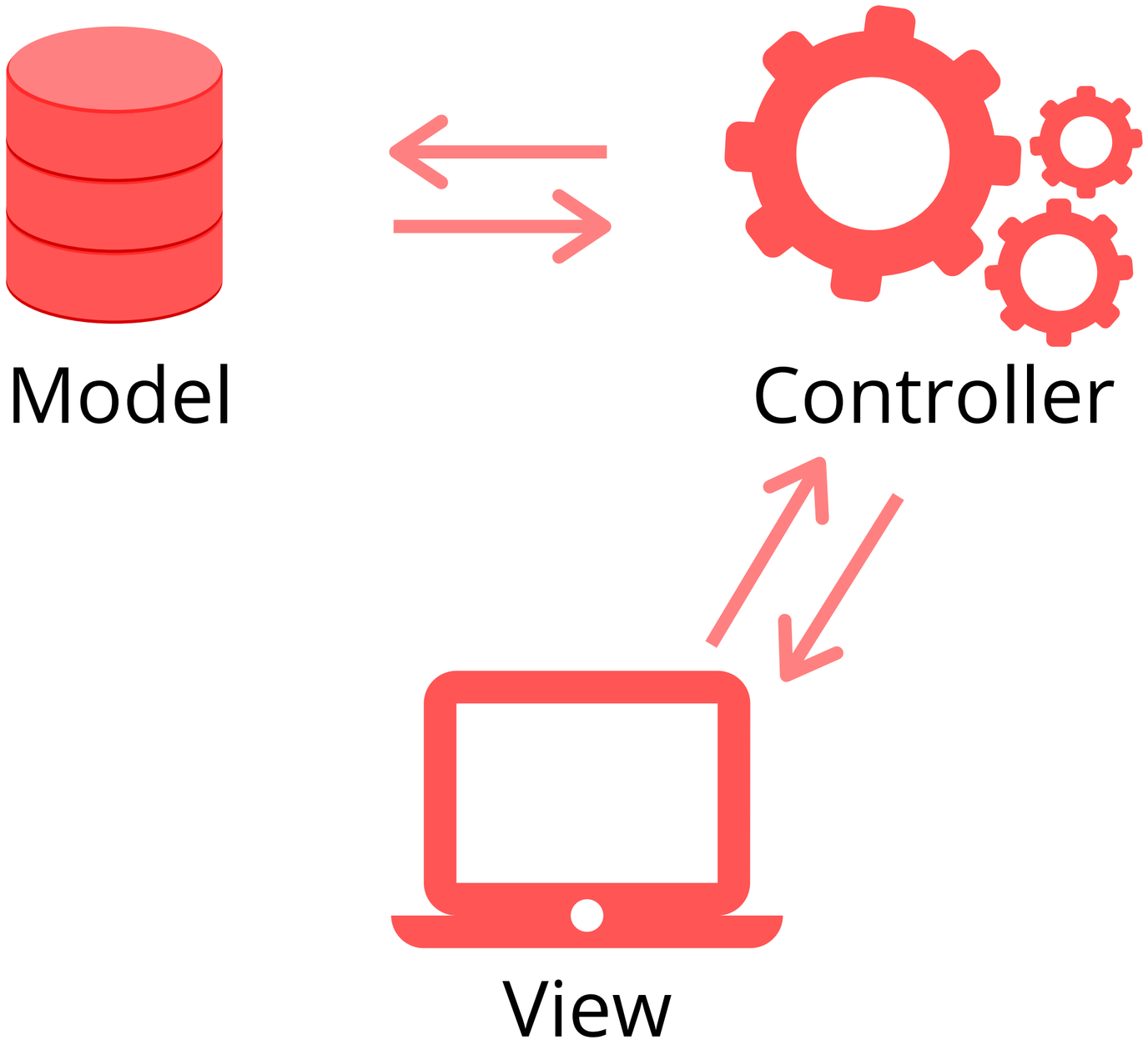
MVC

Model
View
Controller



View

Deals with client side code

- Log In/Register
- Log In: Accept UID and send it to controller
- Register: Accept details of citizen and send it to controller
- Output: Shows details of the citizen and the date when he/she is getting vaccinated

Controller

Controls the insertion and searching in the AVL tree.

- Has two functions insert() and search()
- insert() takes args from **view** as details of new citizen , creates a new node in **model,** creates a UID according to the details and inserts that UID in the AVL tree. Also sends that UID to **model** along with details.
- search() takes args from **view** , calls in for inorder of the AVL tree, searches for UID using Binary Search, returns date of vaccination. Also sends UID to **model**.
- display() takes details sent by **model** and displays along with date.

Model

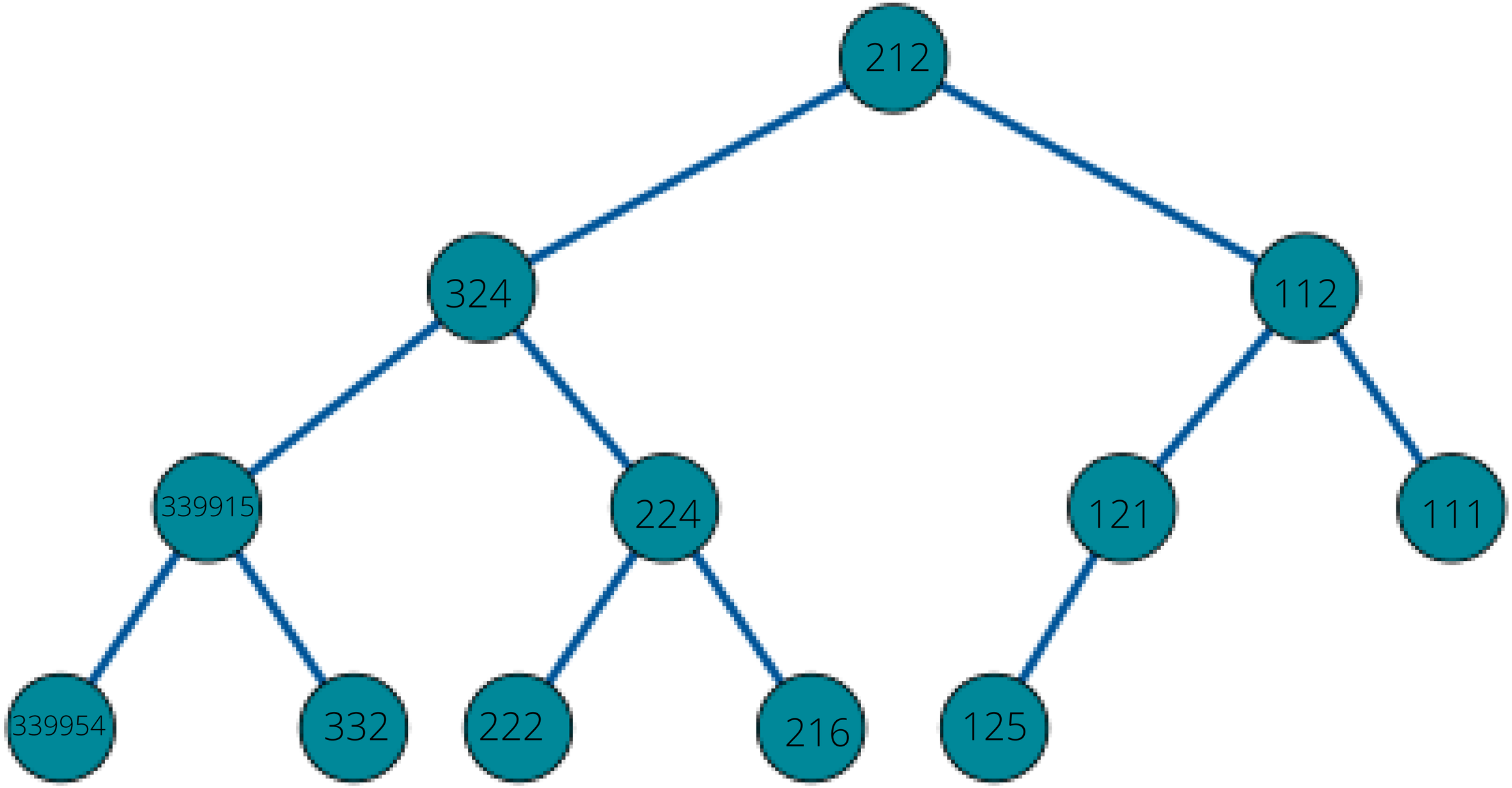
Contains details of person,
defines each node of AVL tree

- Defines classes of person, Node and AVL tree.

UID

6-digit code that uniquely identifies each person

- eg:-322998
- First 3-digit code is V-C-A (Vaccine-Covid-Age)
- Vaccine = {3,2,1} , 3 = no vaccination , 2 = 2 month vaccination, 1= 1 month vaccination.
- Covid = {3,2,1}, 3 = no Covid, 2 = 2 months before Covid, 1 = 1 months before Covid
- Age = {9,8,7,6,5,4,3,2,1} , defines age group (9=90-100).
- Last 3 digit determine the sequence of Registration, where 999 is given most priority.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