

# Training exercise for beginner full-stack developer

Write a simple CRUD (Create, Read, Update, Delete) program.

## Technologies required:

- Frontend: ReactJS, Material UI.
- Backend: Java spring boot, RESTful API.
- Database: Postgres newest version.

## Database design

Table: patient

patient				
#	Column	Type	Nullable	
1	#patient_id	bigint	not null	Primary Key
2	name	varchar (255)	not null	
3	gender	varchar (50)	not null	
4	age	int	not null	
5	email	varchar (50)	null	
6	phone_number	varchar(50)	not null	
7	created_at	timestamp	not null	
8	updated_at	timestamp	not null	

## 1. Homepage

Screen 1: Show list of patients

VINBRAIN

PatientID	Name	Gender	Age	Email	Phone number	
100	Nguyen Van A	Male	43	ang@gmail.com	969-068-8439	Edit   Delete
101	Lo thi B	Female	63	ang@gmail.com	(017) 057-6055	Edit   Delete
102	Hoang Van C	Male	21		166-619-2267	Edit   Delete
103	Tran van D	Male	78		(699) 824-5724	Edit   Delete

## 2. Create new patient

Screen 1: Show Create new patient page if click button “Create Patient”

- Email, Phone number, email show be verify
- Click “Cancel” -> go to home page.
- Click “Next” -> go to screen Create new patient confirm

VINBRAIN

Create new patient

Name

Gender

Age

Email

Phone number

Cancel

Next

Screen 2: Create new patient confirm

- Click “Back” -> go to previous screen (Create new patient screen)
- Click “Save” -> Save then go to Create new patient success

VINBRAIN

Create new patient confirm

Name \*

Nguyen Van A

Gender \*

Male

Age \*

16

Email

Phone number

0921345726

Back

Save

Screen 3: Success notification

VINBRAIN

Congrats! Patient was created

Go home

### 3. Edit patient

Screen 1: Edit patient screen, show when lick edit link on list of patient.

- Email, Phone number, email show be verify
- Click “Cancel” -> go to home page.
- Click “Next” -> go to screen Edit patient confirm

The screenshot shows the 'Edit patient' screen. At the top is a header bar with the text 'VINBRAIN'. Below the header, the title 'Edit patient' is centered. The form contains several input fields: 'PatientID \*' with the value '101', 'Name \*' with 'Nguyen Van A', 'Gender \*' with a dropdown menu showing 'Male', 'Age \*' with '17', 'Email' with 'nguyenvana@gmail.com', and 'Phone number \*' with '0987862836'. At the bottom right, there are two buttons: 'Cancel' and 'Next'.

Screen 2: Edit patient confirm

- Click “Back” -> go to previous screen (Edit patient screen)
- Click “Save” -> Save then go to Edit patient success

The screenshot shows the 'Edit patient confirm' screen. At the top is a header bar with the text 'VINBRAIN'. Below the header, the title 'Edit patient confirm' is centered. The form displays the patient information: 'PatientId \*' with '101', 'Name \*' with 'Nguyen Van A', 'Gender \*' with 'Male', 'Age \*' with '16', 'Email' (empty), and 'Phone number' with '0921345726'. At the bottom right, there are two buttons: 'Back' and 'Save'.

Screen 3: Edit patient success

The screenshot shows the 'Edit patient success' screen. At the top is a header bar with the text 'VINBRAIN'. Below the header, the message 'Congrats! Patient was edited' is centered. At the bottom center, there is a button labeled 'Go Home'.

## 4. Delete patient

When click delete button, show confirm popup.

- Click “Yes”: delete patient from database, close popup, reload list.
- Click “Cancel”: close popup

VINBRAIN

PatientID	Name	Gender	Age	Email	Phone number	
100	Nguyen Van A			g@gmail.com	969-068-8439	Edit   Delete
101	Lo thi B			g@gmail.com	(017) 057-6055	Edit   Delete
102	Hoang Van C				166-619-2267	Edit   Delete
103	Tran van D	Male	78		(699) 824-5724	Edit   Delete

Create Patient

Confirm

Do you want to delete patient with id 101?