

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

The screenshot shows a web-based application for managing patient data. At the top, there is a header bar with the text "VINBRAIN". Below the header, there is a search/filter section with input fields for PatientID, Name, Gender, Age, Email, and Phone number, followed by a "Filter" button. The main area displays a table of patient records with columns: PatientID, Name, Gender, Age, Email, and Phone number. Each row in the table contains a set of buttons for "Edit" and "Delete". At the bottom left is a "Create Patient" button, and at the bottom right is a page navigation bar with buttons for «, 1, 2, 3, 4, 5, ».

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

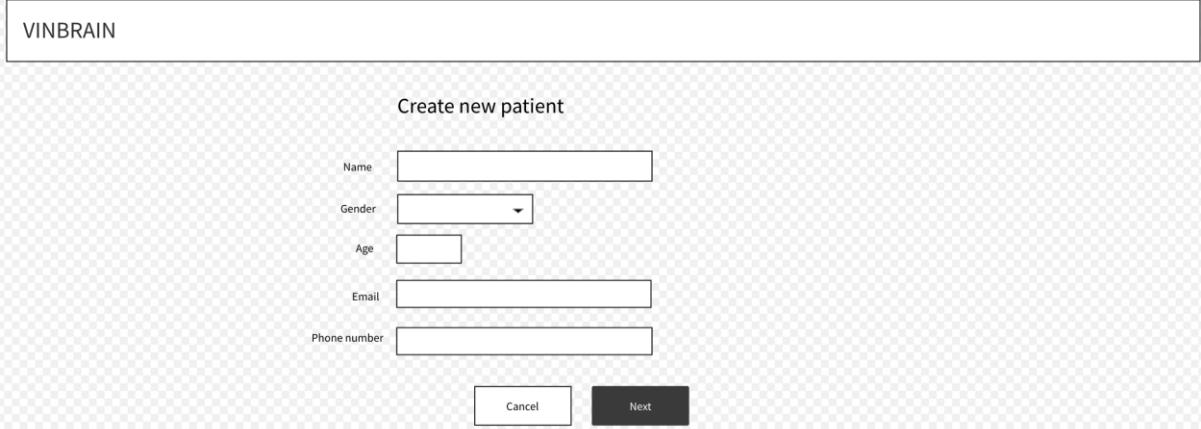
Create Patient

« 1 2 3 4 5 »

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

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

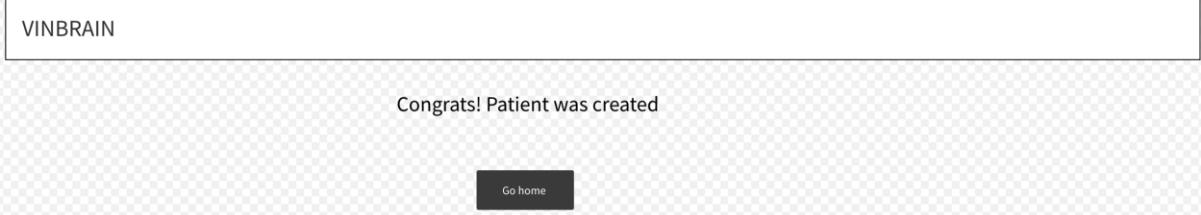
Gender * Male

Age * 16

Email

Phone number 0921345726

Screen 3: Success notification



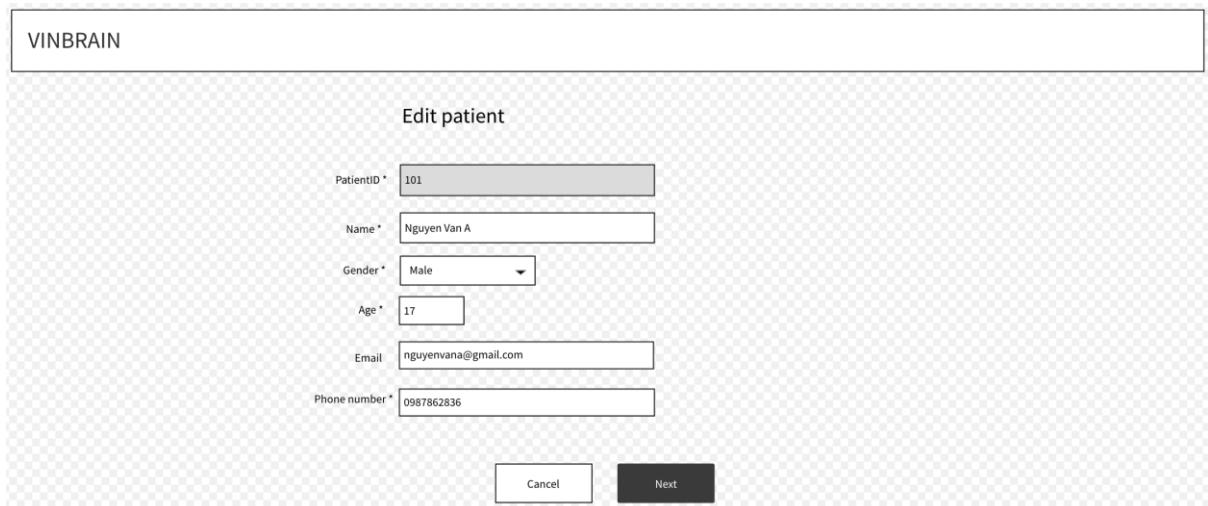
VINBRAIN

Congrats! Patient was created

3. Edit patient

Screen 1: Edit patient screen, show when click 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



VINBRAIN

Edit patient

PatientID * 101

Name * Nguyen Van A

Gender * Male

Age * 17

Email nguyenvana@gmail.com

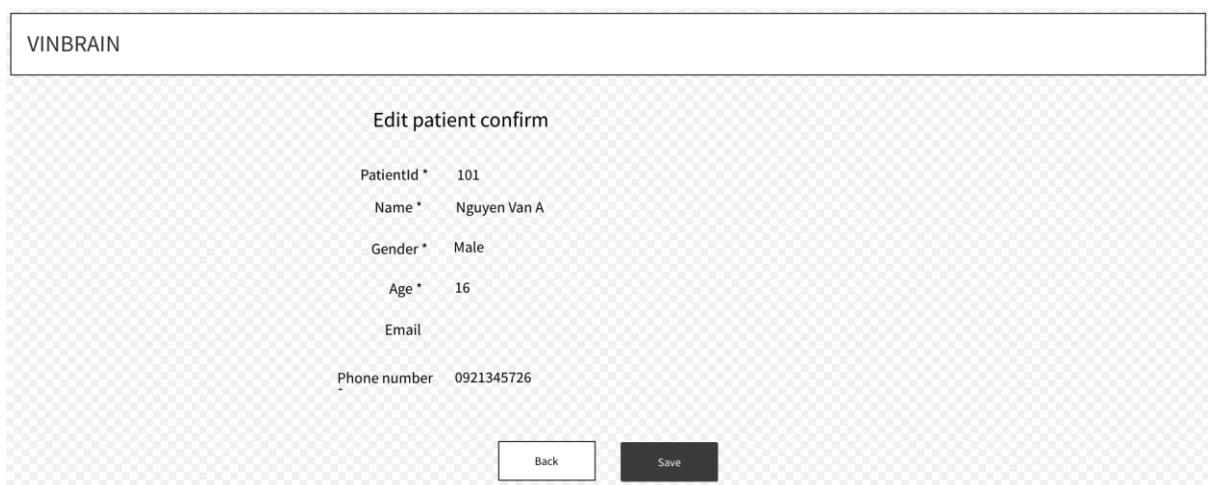
Phone number * 0987862836

Cancel Next

This screenshot shows the 'Edit patient' form. It contains fields for PatientID (101), Name (Nguyen Van A), Gender (Male), Age (17), Email (nguyenvana@gmail.com), and Phone number (0987862836). Below the form 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



VINBRAIN

Edit patient confirm

PatientId * 101

Name * Nguyen Van A

Gender * Male

Age * 16

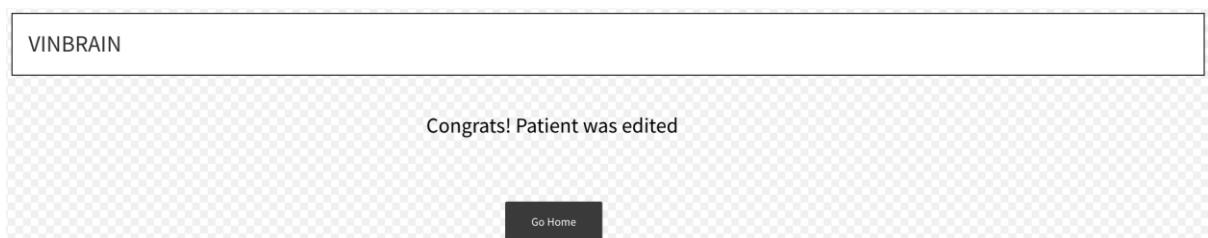
Email

Phone number 0921345726

Back Save

This screenshot shows the 'Edit patient confirm' screen. It displays the same patient information as the previous screen: PatientId 101, Name Nguyen Van A, Gender Male, Age 16, Email (hidden), and Phone number 0921345726. At the bottom are 'Back' and 'Save' buttons.

Screen 3: Edit patient success



VINBRAIN

Congrats! Patient was edited

Go Home

This screenshot shows the 'Edit patient success' screen. It displays a confirmation message 'Congrats! Patient was edited'. At the bottom is a 'Go Home' button.

4. Delete patient

When click delete button, show confirm popup.

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

The screenshot shows a patient management interface with a table of patients and a confirmation dialog box.

Table Headers: PatientID, Name, Gender, Age, Email, Phone number.

Table Data:

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

Confirmation Dialog: A modal window titled "Confirm" asks "Do you want to delete patient with id 101?". It has "Cancel" and "Yes" buttons.

Buttons and Links: "Create Patient" button, "Filter" button, and a page navigation bar with buttons for <<, 1, 2, 3, 4, 5, >>.