VIETNAM NATIONAL UNIVERSITY OF HOCHIMINH CITY

THE INTERNATIONAL UNIVERSITY

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING



MERN STACK WITH GRAPHQL FOR SHARE ACCOMODATION WEB APPLICATION

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**THESIS COMMITTEE**

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# LIST OF ABBREVIATIONSALS

REST Representational State Transfer

API Application Programming Interface

URL Uniform Resource Locator

HTTP Hypertext Transfer Protocol

JSON JavaScript Object Notation

IDE Integrated Development Environment

SDL Schema Definition Language

CRUD Create, Read, Update, and Delete

# ABSTRACT

In the modern world, office, factory or school often focus on the industry zone or in the big cities. However, not everyone also lives in these areas. Most of them come from the rural areas or very far away from the workplace. In addition, some of them are just alone, their budget may be also limit for spending on renting an apartment, house or even room. Furthermore, migration from other places, they have quite troubles in finding a place for livings. Base on that demand, share accommodation website has been released to adapt these requirements.

However, there are few available websites in Vietnam focus on that problems. Almost, these websites mainly provide rental apartments, houses or rooms and lack of share accommodation. Moreover, those websites are now built rudimentarily and have some limitations in common case such as bottle-neck, poor interactions or overloading due to some weak aspects of REST. For that reasons, GraphQL is applied to this thesis to solve these issues, boost performance and make the interaction between server and client become less complicated. Moreover, MERN stack is powerful and effective to work with GraphQL.

# CHAPTER 1 INTRODUCTION

* 1. Motivation