**THESIS REGISTRATION**

Student Name: Đỗ Hùng Cường ID: ITITIU13170 Date of request: 20/09/2017

Advisor Name: Dr.Trần Thanh Tùng Semester: I Year: 2017-2018

|  |  |
| --- | --- |
| **TOPIC SUMMARY** | |
| **Topic** | **Hotel Booking and Reservations System using MEAN stack technology and J2EE with Spring MVC framework** |
| **Field** | **Computer Science** |
| **Specialty** | **Web Application** |
| **Keywords** | **MongoDB, Express framework, Angular 2, Node.js, Spring MVC** |
| **PROBLEM DESCRIPTIONS** | |
| Nowadays, many hotels are magnificently enormous with a lot of deluxe rooms. It leads to situation that management is very difficult and booking based on pen and paper is not convenient for both the customers and the receptionists. Moreover, the reservation may cause a lot of risk such as invalid information of customers, wrong information of rooms and booking. Therefore, many applications released with lots of features to support reservation of the hotels. However, not all of them are online application and maybe the performance of their features are not really good, the database systems are very limited, they may overload or run extremely slow when a huge amount of users access.  To solve these problems above, I will build a Hotel Booking and Reservations System using MEAN stack technology and J2EE with Spring MVC framework. Applied MEAN stack technology, this system become an online single page application with high performance and dynamically loading through RESTFULL web service and Spring MVC framework. The customers will be very comfortable when booking rooms on this website and the administrators will easily manage the whole system.  My aim is to develop two websites that support many common features for reservation and booking rooms of a hotel. The first website will be built for customers, customers can go to this website to view detail of the hotel, book room, send reservation form, contact with administrators and send feedback. The second website helps the administrators manage the hotel, manage the users and view statistics the earning graph of the hotel.  In the future, there will be some expanded features in this system such as following users, viewing statistic of visiting times, rating rooms, viewing related rooms, viewing top of rooms, chat box, email template and email automatic sending if users would not response after 7 days. | |
| **WORK PLAN** | |
| * 1 week: researching library, framework and technique * 1 week: analysis business logic * 1 week: drawing UML diagrams * 1 week: designing user interface * 1 week: designing database model * 3 weeks: implementation and deploying web application * 1 week: testing and evaluation * 1 weeks: improvement * 2 weeks: writing thesis report. | |
| **COMMITTEE APPROVAL**  **Approval Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Committee Chair:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | |