**THESIS REGISTRATION**

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

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| **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** | |
| Hotel Booking and Reservations System using MEAN stack technology and J2EE with Spring MVC framework is the system that support many features for the users to interact with the hotel.  The users can be the guests who just want to view the website without an account or the customers who already login to the system for viewing and booking room and the administrators who can manage the whole system. This system apply MEAN stack technology for guest’s pages, customer’s pages and Spring MVC framework for administrator’s pages. There are many features that this system support for each role:  Firstly, the guests can view detail of the hotel, send reservation form, contact with administrators. They can also view and search rooms, food or drink of the hotel  Secondly, the customers can register a new account to login to the website to view detail of the hotel, book room, send reservation form, contact with administrators and send feedback. They can also view and search rooms, food or drink of the hotel. Customers are able to view and edit their profile, change their password or view their activity that they had interacted with the hotel.  Finally, the administrators can login to the website and go to their dashboard to manage the hotel, they can view, add, update and delete rooms or some other services in the restaurant of the hotel from the website. They can also receive the request of customers and reply for that request. Moreover, administrators are able to manage the users, view information and activity of users or ban them if they did something unacceptably. Administrators can also view and edit their profile, change their password and view the earning graph in 6 months.  There are 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:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | |